



**Request for Proposals**  
**for**  
**Cochrane Station Parking Lot Paving Project**

Request for Proposals No.: **RFP 2026 031**

Issued: **Thursday, May 21, 2026**

Submission Deadline: **Monday, June 22, 2026 at 2:00:00 p.m. EDT**

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## **PART 1 - INVITATION AND SUBMISSION INSTRUCTIONS**

### **1.1 Invitation to Proponents**

#### **1.1.1 Invitation**

This Request for Proposals (the “RFP”) is an invitation by Ontario Northland Transportation Commission (“ONTC”) to prospective proponents to submit proposals for **Cochrane Station Parking Lot Paving Project**, as further described in Section A of the RFP Particulars (Appendix B) (the “Deliverables”).

ONTC is an agency of the Province of Ontario that provides reliable and efficient transportation services to northern and rural communities. For over 120 years, the company has provided integrated and impactful transportation services including rail freight, passenger rail, motor coach transportation, rail repair, and remanufacturing services.

ONTC’s rail services are vital in maintaining a reliable supply chain in Northern Ontario by connecting freight customers to global economies. The forestry industry, mining operations, farming communities, and manufacturers count on ONTC’s services to deliver large volumes across vast distances. The company’s 675 miles of mainline track span throughout northeastern Ontario and northwestern Quebec.

ONTC motor coaches connect rural Ontario to major centres providing access to education, medical appointments, shopping, and seamless connections to other transportation providers. The Polar Bear Express passenger train connects Moosonee and Cochrane, Ontario, providing an all-season land link for Indigenous communities on the James Bay Coast.

Improving and repairing transportation equipment is also a large part of ONTC’s service offering. We remanufacture and repair locomotives, passenger rail cars, freight cars, and more. ONTC’s unique mechanical skillset attracts new business and secures skilled trades jobs in Northern Ontario.

ONTC makes provincial dollars reach further by creating innovative solutions that help drive economic growth sustainably, responsibly, and with future generations top of mind. Throughout the agency, modernization is underway with many exciting projects that will improve how we operate. ONTC employs over 1,000 people including Locomotive Engineers, Motor Coach Operators, skilled tradespeople, and business professionals. Employees work together to improve and deliver services that provide value to the regions served.

The objective of this project is to replace the outdated and damaged drainage system, the paving of the main parking area, the rehab of the East platform interlock stone walkway, and to upgrade all lighting in the station parking lot as specified in the drawings at Appendix G.

Cochrane Station is situated at 200 Railway Street, Cochrane, ON, and is part of the ONTC facility.

#### **1.1.2 Proponent Must Be Single Entity**

The proponent must be a single legal entity that, if selected, intends to enter into the contract with ONTC. If the proposal is being submitted jointly by two (2) or more separate entities, the proposal must identify only one (1) of those entities as the “proponent”. The proponent will be responsible for the performance of the Deliverables.

### **1.1.3 Bidding System Registration**

All proponents must have a vendor account or pay a one-time fee with the electronic bidding system at: <https://www.merx.com/>. This will enable the proponent to download the solicitation document, to receive addenda email notifications, download addenda, and submit their proposal electronically through the bidding system.

## **1.2 RFP Contact**

For the purposes of this procurement process, the “RFP Contact” will be:

Brinda Ranpura  
Procurement Contracts Specialist  
Telephone: 705-472-4500 \* 548  
Email: [brinda.ranpura@ontarionorthland.ca](mailto:brinda.ranpura@ontarionorthland.ca)

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

## **1.3 Accommodations for Proponents with Disabilities**

In accordance with the Ontario Human Rights Code, Ontarians with Disabilities Act, 2001 (ODA) and Accessibility for Ontarians with Disabilities Act, 2005 (AODA), ONTC will accommodate for a disability, ensuring full and equitable participation throughout the RFP process.

If a proponent requires this RFP in a different format to accommodate a disability, the proponent must contact the RFP Contact as soon as possible and in any event prior to the Submission Deadline. The RFP in the different format will be issued only to the requesting proponent and all addenda will be issued in such different format only to the requesting proponent.

## **1.4 French Language Services**

In accordance with the *French Language Services Act*, R.S.O. 1990, c. F.32, and Ontario Regulation 544/22, ONTC is committed to providing equitable access to procurement opportunities in both official languages.

While this RFP and associated documents are posted in English, a French version may be available upon request. Interested parties may contact the RFP Contact.

## **1.5 Contract for Deliverables**

### **1.5.1 Type of Contract**

The selected proponent will be required to enter into an agreement with ONTC for the provision of the Deliverables in the form attached as Appendix A to the RFP (the “Agreement”).

### **1.5.2 Term of Contract**

The term of the Agreement is to be for a period from July 15, 2026 to October 31, 2026 and/or upon completion of the Deliverables, as outlined in Appendix A.

## 1.6 RFP Timetable

### 1.6.1 Key Dates

Issue Date of RFP	Thursday, May 21, 2026
Mandatory Site Visit	Wednesday, June 03, 2026 at 2:00 p.m. EDT
Deadline for Questions	Monday, June 15, 2026 at 4:00:00 PM EDT
Deadline for Issuing Addenda	Thursday, June 18, 2026 at 6:00:00 PM EDT
Submission Deadline	Monday, June 22, 2026 at 2:00:00 p.m. EDT
Anticipated Execution of Agreement	Wednesday, July 08, 2026
Irrevocability Period	90 calendar days

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

### 1.6.2 Site Visit / Pre-Bid Meeting

A Mandatory Site Visit will be held at the Cochrane Station located at 200 Railway Street, Cochrane, ON, on Wednesday, June 03, 2026 at 2:00 p.m.

Proponents are required to complete the Site Visit Registration Form and Release of Liability Form located at Appendix E, and return to Brinda Ranpura no later than 4:00:00 p.m. on Tuesday, June 02, 2026.

## 1.7 Submission Instructions

### 1.7.1 Submission of Proposals

Proposals must be submitted electronically through the bidding system at:

<https://www.merx.com/>

Submissions by other methods will not be accepted.

In the event of any technical issues, proponents should contact the bidding system's technical support:

MERX	Customer Support
Phone	1-800-964-6379
Email	<a href="mailto:merx@merx.com">merx@merx.com</a>

The Technical Proposal shall be uploaded into the bidding system, in PDF format, and not have a security password. It is the proponent's sole responsibility to ensure all uploaded documents are not defective, corrupted, or blank and can be opened by ONTC. If the Technical Proposal cannot be downloaded by ONTC, the Proposal shall be rejected.

The Pricing Proposal shall be uploaded into the bidding system. No pricing information shall be uploaded as part of the Technical Proposal as this is a **two-envelope process**.

### **1.7.2 Proposals to Be Submitted on Time**

Proposals must be finalized and fully uploaded in the bidding system on or before the Submission Deadline. The time of receipt of proposals shall be determined by the bidding system web clock. Late submissions will not be accepted by the bidding system and will be disqualified as late.

Proponents are cautioned that the timing of submission is based on when the proposal is received by the bidding system, not when a proposal is submitted by a proponent. As transmission can be delayed due to file transfer size, transmission speed, or other technical factors, proponents should plan to submit proposals well in advance of the Submission Deadline to avoid submitting late due to technical issues. Proponents submitting near the Submission Deadline do so at their own risk.

The bidding system will send a confirmation email to the proponent advising when the proposal was submitted successfully. If you do not receive a confirmation email, contact the bidding system's technical support immediately.

### **1.7.3 Proposals to Be Submitted in Prescribed Format**

Proposal materials should be prepared and submitted in accordance with the instructions in the bidding system, including any maximum upload file size.

Documents should not be embedded within uploaded files, as the embedded files may not be accessible or evaluated.

### **1.7.4 Amendment of Proposals**

Proponents may amend their proposals prior to the Submission Deadline. However, the proponent is solely responsible for ensuring that the amended proposal is received by the bidding system by the Submission Deadline.

### **1.7.5 Withdrawal of Proposals**

Prior to the Submission Deadline, proponents may withdraw a submitted proposal through the bidding system.

### **1.7.6 Proposals Irrevocable after Submission Deadline**

Proposals shall be irrevocable for the Irrevocability Period, as specified in the RFP Timetable, running from the moment that the Submission Deadline passes.

[End of Part 1]

## **PART 2 - EVALUATION AND AWARD**

### **2.1 Stages of Evaluation**

ONTC will conduct the evaluation of proposals in the following stages:

### **2.2 Stage I - Mandatory Submission Requirements**

Stage I will consist of a review to determine which proposals comply with all of the mandatory submission requirements. Proposals that do not comply with all of the mandatory submission requirements as of the Submission Deadline will, subject to the express and implied rights of ONTC, be rejected. The mandatory submission requirements are listed in Section C of the RFP Particulars (Appendix B).

#### **2.2.1 No Amendment to Forms**

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

### **2.3 Stage II - Evaluation**

Stage II will consist of the following two (2) sub-stages:

#### **2.3.1 Mandatory Technical Requirements**

ONTC will review the proposals to determine whether the mandatory technical requirements as set out in Section D of the RFP Particulars (Appendix B) have been met. Proposals that do not comply with all of the mandatory technical requirements will, subject to the express and implied rights of ONTC, be rejected.

#### **2.3.2 Non-Price Rated Criteria**

ONTC will evaluate each qualified proposal on the basis of the non-price rated criteria as set out under Initial Evaluation Criteria in Section F of the RFP Particulars (Appendix B).

### **2.4 Stage III - Pricing**

Stage III will consist of a scoring of the submitted pricing of each qualified proposal in accordance with the price evaluation method set out in Section G of the RFP Particulars (Appendix B). The evaluation of price will be undertaken after the evaluation of mandatory requirements and rated criteria has been completed.

In the event that a proponent's pricing appears to be abnormally low in relation to the Deliverables, ONTC may require the proponent to provide a detailed explanation of the pricing information to account for the low level of price and confirm that all requirements in respect of the Deliverables have been taken into account. If the proponent is unable to satisfactorily account for the abnormally low pricing, ONTC may reject the proposal. ONTC may also reject any proposal that contains unbalanced pricing. Pricing may be considered unbalanced where nominal or significantly understated prices are proposed for some elements of the Deliverables and inflated prices are proposed for other elements of the Deliverables. Unbalanced pricing includes, but is not limited to, "front-loaded" pricing which contains inflated pricing for Deliverables to be provided or completed at the beginning of the contract, offset by understated pricing for Deliverables to be provided or completed later in the contract.

## **2.5 Selection of Top-Ranked Proponent**

After the completion of Stage III, all scores from Stage II and Stage III will be added together and proponents will be ranked based on their total scores. Subject to the reserved rights of ONTC, the top-ranked proponent will be selected to enter into the Agreement in accordance with the following section. In the event of a tie, the selected proponent will be the proponent with the highest score on the non-price rated criteria OR with the lowest price.

## **2.6 Notice to Proponent and Execution of Agreement**

Notice of selection by ONTC to the selected proponent shall be in writing. The selected proponent shall execute the Agreement in the form attached as Appendix A to this RFP and satisfy any other applicable conditions of this RFP, including the pre-conditions of award listed in Section E of the RFP Particulars (Appendix B), within ten (10) days of notice of selection. This provision is solely for the benefit of ONTC and may be waived by ONTC.

## **2.7 Failure to Enter into Agreement**

If a selected proponent fails to execute the Agreement or satisfy any pre-conditions of award within ten (10) days of notice of selection, ONTC may, without incurring any liability, proceed with the selection of another proponent and pursue all other remedies available to ONTC.

[End of Part 2]

## **PART 3 - TERMS AND CONDITIONS OF THE RFP PROCESS**

### **3.1 General Information and Instructions**

#### **3.1.1 RFP Incorporated into Proposal**

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

#### **3.1.2 Proponents to Follow Instructions**

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

#### **3.1.3 Proposals in English**

All proposals are to be in English only.

#### **3.1.4 No Incorporation by Reference**

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

#### **3.1.5 Past Performance**

In the evaluation process, ONTC may consider the proponent's past performance or conduct on previous contracts with ONTC or other institutions.

#### **3.1.6 Information in RFP Only an Estimate**

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

#### **3.1.7 Proponents to Bear Their Own Costs**

The proponent will bear all costs associated with or incurred in the RFP process, including, without limitation, preparation and presentation of its proposal and if applicable, costs incurred for meeting attendance, interviews or demonstrations.

#### **3.1.8 Proposal to be Retained by ONTC**

ONTC will not return the proposal or any accompanying documentation submitted by a proponent.

### **3.1.9 No Guarantee of Volume of Work or Exclusivity of Contract**

ONTC makes no guarantee of the value or volume of work to be assigned to the selected proponent. The Agreement will not be an exclusive contract for the provision of the described Deliverables. ONTC may contract with others for goods and services the same as or similar to the Deliverables or may obtain such goods and services internally.

### **3.1.10 Trade Agreements**

Proponents should note that procurements falling within the scope of the Ontario-Quebec Trade and Co-operation Agreement, Canadian Free Trade Agreement, and Comprehensive Economic and Trade Agreement are subject to those trade agreements but that the rights and obligations of the parties will be governed by the specific terms of this RFP.

## **3.2 Communication after Issuance of RFP**

### **3.2.1 Proponents to Review RFP**

Proponents shall promptly examine all of the documents comprising this RFP, and

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

in writing by email to the RFP Contact on or before the Deadline for Questions. No such communications are to be sent or initiated through any other means. ONTC is under no obligation to provide additional information, and ONTC is not responsible for any information provided by or obtained from any source other than the RFP Contact or the bidding system. It is the responsibility of the proponent to seek clarification on any matter it considers to be unclear. ONTC shall not be responsible for any misunderstanding on the part of the proponent concerning this RFP or its process.

### **3.2.2 All New Information to Proponents by Way of Addenda**

This RFP may be amended only by addendum in accordance with this section. If ONTC, for any reason, determines that it is necessary to provide additional information relating to this RFP, such information will be communicated to all proponents by addendum posted in the bidding system. Each addendum forms an integral part of this RFP and may contain important information, including significant changes to this RFP. Proponents are responsible for obtaining all addenda issued by ONTC.

### **3.2.3 Post-Deadline Addenda and Extension of Submission Deadline**

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

### **3.2.4 Verify and Clarify**

When evaluating proposals, ONTC may request further information from the proponent or third parties in order to verify or clarify the information provided in the proponent's proposal. The response received by ONTC shall, if accepted by ONTC, form an integral part of the proponent's proposal.

### **3.3 Notification and Debriefing**

#### **3.3.1 Notification to Other Proponents**

Once the Agreement is executed by ONTC and a proponent, the other proponents may be notified directly in writing and shall be notified by public posting, on ONTC's website, of the outcome of the procurement process.

#### **3.3.2 Debriefing**

Proponents may request a debriefing after receipt of a notification of the outcome of the procurement process. All requests must be in writing to the RFP Contact and must be made within sixty (60) days of such notification. The RFP Contact will contact the proponent's representative to schedule the debriefing. Debriefings may occur by way of conference call or other remote meeting format as prescribed by ONTC.

#### **3.3.3 Procurement Protest Procedure**

Any proponent with concerns about the RFP process is required to attend a debriefing prior to proceeding with a protest.

If, after attending a debriefing, the proponent wishes to challenge the RFP process, it should provide written notice to the RFP Contact in accordance with applicable procurement protest procedures. The written notice must contain:

- (a) a clear statement as to which procurement the proponent wishes to challenge;
- (b) a clear explanation of the proponent's concerns with the procurement, including specifics as to why it disagrees with the procurement process or its outcome; and
- (c) the proponent's contact details, including name, telephone number, and email address.

ONTC will send an initial response to acknowledge receipt of the proponent's notice and indicate the date by which ONTC will provide the proponent with a formal response.

### **3.4 Conflict of Interest and Prohibited Conduct**

#### **3.4.1 Conflict of Interest**

For the purposes of this RFP, the term "Conflict of Interest" includes, but is not limited to, any situation or circumstance where:

- (a) in relation to the RFP process, the proponent has an unfair advantage or engages in conduct, directly or indirectly, that may give it an unfair advantage, including, but not limited to:
  - (i) having or having access to confidential information of ONTC in the preparation of its proposal that is not available to other proponents;
  - (ii) having been involved in the development of the RFP, including having provided advice or assistance in the development of the RFP;
  - (iii) receiving advice or assistance in the preparation of its response from any individual or entity that was involved in the development of the RFP;

- (iv) communicating with any person with a view to influencing preferred treatment in the RFP process (including, but not limited to, the lobbying of decision-makers involved in the RFP process); or
  - (v) engaging in conduct that compromises, or could be seen to compromise, the integrity of the open and competitive RFP process or render that process non-competitive or unfair; or
- (b) in relation to the performance of its contractual obligations under a contract for the Deliverables, the proponent's other commitments, relationships, or financial interests:
- (i) could, or could be seen to, exercise an improper influence over the objective, unbiased, and impartial exercise of its independent judgement; or
  - (ii) could, or could be seen to, compromise, impair, or be incompatible with the effective performance of its contractual obligations.

### **3.4.2 Disqualification for Conflict of Interest**

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

An existing supplier of ONTC may be precluded from participating in the RFP process in instances where ONTC has determined that the supplier has a competitive advantage that cannot be adequately addressed to mitigate against unfair advantage. This may include, without limitation, situations in which an existing supplier is in a position to create unnecessary barriers to competition through the manner in which it performs its existing contracts, or situations where the incumbent fails to provide the information within its control or otherwise engages in conduct obstructive to a fair competitive process.

### **3.4.3 Disqualification for Prohibited Conduct or Breach**

ONTC may disqualify a proponent, rescind a notice of selection, or terminate a contract subsequently entered into if ONTC determines in its sole and absolute discretion that the proponent has engaged in any conduct prohibited by this RFP or has otherwise breached the terms of the of the RFP.

### **3.4.4 Prohibited Proponent Communications**

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

### **3.4.5 Proponent Not to Communicate with Media**

Proponents must not, at any time directly or indirectly, communicate with the media in relation to this RFP or any agreement entered into pursuant to this RFP without first obtaining the written permission of the RFP Contact. Further, proponents must not make any media release, social media or Internet post, public announcement or public disclosure (whether for publication in the press, on the radio, television, internet or any other medium) that relates to the RFP process, the solicitation documents or the Deliverables or any matters related thereto, without the prior written consent of ONTC.

### **3.4.6 No Lobbying**

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

### **3.4.7 Illegal or Unethical Conduct**

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

### **3.4.8 Supplier Suspension**

ONTC may suspend a supplier from participating in its procurement processes for prescribed time periods based on past performance or based on inappropriate conduct, including, but not limited to, the following:

- (a) illegal or unethical conduct as described above;
- (b) the refusal of the supplier to honour its submitted pricing or other commitments;
- (c) engaging in litigious conduct, bringing frivolous or vexatious claims in connection with ONTC's procurement processes or contracts, or engaging in conduct obstructive to a fair competitive process; or
- (d) any conduct, situation, or circumstance determined by ONTC, in its sole and absolute discretion, to have constituted an undisclosed Conflict of Interest.

In advance of a decision to suspend a supplier, ONTC will notify the supplier of the grounds for the suspension and the supplier will have an opportunity to respond within a timeframe stated in the notice. Any response received from the supplier within that timeframe will be considered by ONTC in making its final decision.

## **3.5 Confidential Information**

### **3.5.1 Confidential Information of ONTC**

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

- (a) is the sole property of ONTC and must be treated as confidential;
- (b) is not to be used for any purpose other than replying to this RFP and the performance of the Agreement;
- (c) must not be disclosed without prior written authorization from ONTC; and
- (d) must be returned by the proponent to ONTC immediately upon the request of ONTC.

Each proponent shall be responsible for any breach of the provisions of this section by any person to whom it discloses ONTC confidential information.

### **3.5.2 Confidential Information of Proponent**

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

### **3.6 Reserved Rights and Limitation of Liability**

#### **3.6.1 Reserved Rights of ONTC**

ONTC reserves the right to:

- (a) make public the names of any or all proponents;
- (b) make changes, including substantial changes, to this RFP provided that those changes are issued by way of addendum in the manner set out in this RFP;
- (c) request written verification or clarification from any proponent and incorporate a proponent's response to that request for clarification into the proponent's proposal;
- (d) assess a proponent's proposal on the basis of: (i) a financial analysis determining the actual cost of the proposal when considering factors including quality, service, price, and transition costs arising from the replacement of existing goods, services, practices, methodologies, and infrastructure (howsoever originally established); and (ii) in addition to any other evaluation criteria or considerations set out in this RFP, consider any other relevant information that arises during this RFP process;
- (e) reject a proposal that contains abnormally low or unbalanced pricing;
- (f) waive formalities and accept proposals that substantially comply with the requirements of this RFP;
- (g) verify with any proponent or with a third party any information set out in a proposal;
- (h) check references other than those provided by any proponent;
- (i) disqualify a proponent, rescind a notice of selection, or terminate a contract subsequently entered into if the proponent has engaged in any conduct that breaches the process rules or otherwise compromises or may be seen to compromise the competitive process;
- (j) select a proponent other than the proponent whose proposal reflects the lowest cost to ONTC;
- (k) cancel this RFP process at any stage;
- (l) cancel this RFP process at any stage and issue a new RFP for the same or similar deliverables;

- (m) accept any proposal in whole or in part; or
- (n) reject any or all proposals;

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

### **3.6.2 Limitation of Liability**

By submitting a proposal, each proponent agrees that

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

### **3.7 Governing Law and Interpretation**

These Terms and Conditions of the RFP Process (Part 3):

- (a) are intended to be interpreted broadly and independently (with no particular provision intended to limit the scope of any other provision);
- (b) are non-exhaustive and shall not be construed as intending to limit the pre-existing rights of ONTC; and
- (c) are to be governed by and construed in accordance with the laws of the Province of Ontario and the federal laws of Canada applicable therein and the courts of the Province of Ontario shall have exclusive jurisdiction to entertain any action or proceeding based on, relating to or arising from this RFP.

### **3.8 Power of Legislative Assembly**

No provision of this RFP is intended to operate, nor shall any such provision have the effect of operating, in any way, that would interfere with or otherwise fetter the discretion of the Legislative Assembly of Ontario in the exercise of its legislative powers.

[End of Part 3]

## **APPENDIX A - FORM OF AGREEMENT**

The Agreement for Deliverables will be the Supplementary Conditions - CCDC 2- 2020 Form of Agreement, as attached to this Appendix A.

AMENDMENTS TO THE AGREEMENT BETWEEN OWNER AND CONTRACTOR

**1. ARTICLE A-1 THE WORK**

1.1 Delete paragraph 1.3 in its entirety and replace it with the following:

“1.3 commence the *Work* by the [ ] day of [ ] in the year 2026 and, subject to adjustment in *Contract Time* as provided for in the *Contract Documents*, attain *Substantial Performance of the Work* by the [ ] day of [ ] in the year 2026, and attain *Ready-for-Takeover* by the 27<sup>th</sup> day of October in the year 2026.”

**2. ARTICLE A-4 CONTRACT PRICE**

2.1 Delete paragraph 4.4 and replace it with the following:

“The *Contract Price* shall remain fixed for the duration of the *Contract Time*, subject only to adjustments as provided for in the *Contract Documents*. For certainty, the *Contractor* assumes all risks in connection with cost increases for Products, labour, and Construction Equipment prescribed by the *Contract Documents* for the performance of the *Work*, and the *Contractor* assumes all responsibility for liabilities and additional costs that may arise as a result of the *Contractor’s* inclusion of any Product, Construction Equipment, *Supplier*, or *Subcontractor* in its calculation of the *Contract Price*.”

**3. ARTICLE A-5 PAYMENT**

3.1 Delete paragraph 5.1 in its entirety, including all subparagraphs thereunder and replace it with the following:

“5.1 Subject to the provisions of the *Contract Documents* and the *Construction Act*, the *Owner* shall:

- .1 make progress payments to the *Contractor* on account of the *Contract Price* when due together with such Value Added Taxes as may be applicable to such payments,
- .2 upon *Substantial Performance of the Work*, as certified by the Consultant, and upon the expiry of the holdback period that follows the publication of the certificate of *Substantial Performance of the Work*, as stipulated in the *Construction Act*, there being no claims for lien registered against the title to the Place of the Work and no written notices of lien delivered to the *Owner*, pay the *Contractor* the unpaid balance of the holdback, together with such Value Added Taxes as may be applicable to such payment, less any amount stated in any Notice of Non-Payment that is published by the *Owner* in accordance with the *Construction Act*, and
- .3 after *Ready-for-Takeover* has been achieved in accordance with the *Contract Documents* and the *Work* is complete, there being no claims for lien registered against the title to the Place of the Work and no written notices of lien delivered to the *Owner*, pay the *Contractor* the unpaid balance of the *Contract Price* in accordance with GC 5.5. – FINAL PAYMENT, together with such Value Added Taxes as may be applicable to such payment.”

3.2 Delete paragraph 5.2 in its entirety including all subparagraphs thereunder and replace it with the following:

“Interest on late payments, if any, will be in accordance with the *Construction Act*.”

**4. ARTICLE A-6 RECEIPT OF AND ADDRESSES FOR NOTICES IN WRITING**

4.1 Delete the text of ARTICLE A-6 RECEIPT OF AND ADDRESSES FOR NOTICES IN WRITING (retaining the provisions setting out the addresses of the *Owner*, *Contractor* and Consultant) and replace it with the following:

“6.1 Notices in Writing between the parties or between them and the Consultant shall be considered to have been received by the addressee on the date of receipt if delivered by hand or by commercial courier during normal business hours or if sent during normal business hours by e-mail during the transmission of which no indication of failure of receipt is communicated to the sender, and addressed as set out below. Such Notices in Writing will be deemed to be received by the addressee on the next Working Day if sent by e-

mail after normal business hours or if sent by overnight commercial courier. Such Notices in Writing will be deemed to be received by the addressee on the fifth Working Day following the date of mailing, if sent by pre-paid registered post, when addressed as set out below. An address for a party may be changed by Notice in Writing to the other party setting out the new address in accordance with this article.”

## **5. ARTICLE A-9 CONFLICT OF INTEREST**

5.1 Add new Article A-9 as follows:

### **“ARTICLE A-9 CONFLICT OF INTEREST**

- 9.1 The *Contractor*, all of the *Subcontractors*, and any of their respective advisors, partners, directors, officers, employees, agents, and volunteers shall not engage in any activity or provide any services where such activity or the provision of such services creates a Conflict of Interest (actually or potentially, in the sole opinion of the *Owner*) with the provision of the *Work* pursuant to the *Contract*.
- 9.2 The *Contractor* shall disclose to the *Owner*, in writing, without delay, any actual or potential situation that may be reasonably interpreted as either a Conflict of Interest or a potential Conflict of Interest, including the retention of any *Subcontractor* or *Supplier* that is directly or indirectly affiliated with or related to the *Contractor*.”

## **6. ARTICLE A-10 TIME OF THE ESSENCE / LIQUIDATED DAMAGES**

6.1 Add new Article A-10 as follows:

### **“ARTICLE A-10 TIME OF THE ESSENCE/LIQUIDATED DAMAGES**

- 10.1 It is agreed that one of the reasons the *Contractor* was selected by the *Owner* for this *Contract* is the *Contractor*'s representation and warranty that it will attain Substantial Performance of the *Work* and Ready-for-Takeover within the *Contract* Time stated in Article A-1.3 of this *Contract*. The *Contractor* acknowledges that it has been advised by the *Owner* that it is critical to the *Owner* that Substantial Performance of the *Work* and Ready-for-Takeover is achieved within the *Contract* Time. The *Contractor* agrees that time is of the essence in the performance of the *Contractor*'s obligations under this *Contract*.
- 10.2 The *Contractor* further acknowledges its understanding that the *Owner* is responsible and must account to the Government of Ontario, its customers and passengers and the residents of Northern Ontario. A failure by the *Contractor* to attain Substantial Performance of the *Work* and Ready-for-Takeover within the *Contract* Time will result in damages to the *Owner* and to the Government of Ontario, its customers and passengers and the residents and businesses in Northern Ontario, which would be difficult or impractical to quantify but would nevertheless have a significant negative impact on the *Owner* and its ability to provide the services the *Owner* is obliged to provide to the residents and businesses in Northern Ontario.
- 10.3 Given the significance of the requirement for the *Contractor* to achieve Substantial Performance of the *Work* and Ready-for-Takeover, as described in Article A-10.2, the *Contractor* further acknowledges and agrees that, without limiting the *Owner*'s entitlement to any additional or other damages, if it fails to achieve Substantial Performance of the *Work* and Ready-for-Takeover within the *Contract* Time, the *Owner* will incur substantial damages and the extent of such damages shall be incapable or very difficult of accurate measurement. Nonetheless, the parties acknowledge that as of the effective date of this *Contract*, the amount of liquidated damages set forth in subparagraph 10.4 below represents a good faith estimate on the part of the parties as to the actual potential damages that the *Owner* would suffer because of late completion of the Project. It is expressly acknowledged and agreed by and between the parties that the amount of such liquidated damages does not include any penalty. Notwithstanding the foregoing, where the Project is delayed beyond the *Contract* Time, the *Owner* shall be entitled to (i) the liquidated damages as calculated pursuant to Article A-10.4, or (ii) in the event that the *Contractor* claims that this liquidated damages provision is invalid or unenforceable and the *Contractor* prevails on such a defence, the damages arising from the delay suffered by the *Owner* including, without limitation, consequential, special, incidental, and indirect damages, costs and other expenses incurred or suffered by the *Owner*.

- 10.4 The *Owner* shall require that the *Contractor* pay to the *Owner* (or have deducted from *Contract* payments) liquidated damages at the per diem rate set out in the *Contract Documents* for each calendar day of delay beyond the prescribed date for Ready-for-Takeover until Ready-for-Takeover is achieved and certified, pursuant to the terms of the *Contract*. If there is no per diem rate set out in the *Contract Documents*, the *Contractor* shall pay to the *Owner* the Administration Costs incurred by the *Owner* as a result of the delay.
- 10.5 Liquidated damages will be assessed as incurred and reflected as deductions from amounts that may be due under any applications for payment pending at the time that such liquidated damages are assessed. All liquidated damages not deducted from payments prior to final payment shall be deducted from the final payment to be made by the *Owner* to the *Contractor* pursuant to GC 5.5 FINAL PAYMENT and any amount of liquidated damages in excess of the final payment amount, shall be paid by the *Contractor* to the *Owner*, within 30 days following a written demand by the *Owner* for such payment.
- 10.6 The liquidated damages payable under this paragraph are in addition to and without prejudice to any other remedy, action or any other alternative claim that may be available to the *Owner*.”

## AMENDMENTS TO THE DEFINITIONS

### 7. DEFINITIONS

#### 7.1 Add the following new definitions:

*Acceptance* and *Accepted* means the *Owner* and the *Consultant* acknowledges that the work for a *Submittal* has been completed and that the *Submittal* on its face conforms to the requirements of the *Contract Documents*. *Acceptance* does not mean confirmation by the *Owner* or the *Consultant* that the *Submittal* does not contain errors or omissions, defects, deficiencies or deviations from the *Contract Documents*. Wherever the words “acceptance” and “accepted” are used in the *Contract Documents*, they shall have the meaning set out in this definition even if the words are not capitalized.

*Administration Costs* means those costs and expenses incurred by the *Owner* as a result of carrying out a process or activity due to a delay in the performance of the Work by the *Contractor* and include:

- (a) additional fees payable by the *Owner* to the *Consultant* on a per diem basis according to the *Consultant*'s personnel rates;
- (b) the *Owner*'s personnel costs associated with the delay, in an amount solely determined by the *Owner*; and
- (c) any additional costs or loss of revenue incurred by the *Owner* due to the delay.

*Adjudication* means construction dispute interim adjudication as defined under the *Construction Act*.

The *Arbitration Act* means the *Arbitration Act*, 1991, S.O. 1991, c. 17, as amended.

*As-Built Drawings* means a set of drawings that are marked-up during construction by the *Contractor* that show how the structures and other parts of the Work were actually constructed versus how the structures and other parts of the Work were originally designed and “*As-Built Record Drawings*” means the *As-Built Drawings* prepared by the *Contractor* following completion of the Work that are *Submitted* to the *Owner* with the *Close-Out Documentation*.

*Authority Having Jurisdiction or AHJ* means the federal, provincial or municipal entity that is responsible for enforcing codes, standards and regulations relating to building construction, has the power to pass regulations to direct, specify and govern elements or activities of construction projects such as codes, safety, health or standards of manufacture or installation.

*Close-out Documentation* has the meaning given in GC 5.5.1.2.

*Confidential Information* means all information of the *Owner* that is confidential by its nature or in the circumstances in which it is received, including without limitation Personal Information and all confidential information in the custody or control of the *Contractor*, regardless of whether it is identified as confidential or not,

which comes into the knowledge, possession or control of the *Contractor* in connection with this Contract, but Confidential Information does not include information that:

- .1 is or becomes generally available to the public without fault or breach by the *Contractor*, but only after that information becomes generally available to the public;
- .2 the *Contractor* can demonstrate to have been rightfully obtained by the *Contractor* without any obligation of confidence from a third party who had the right to transfer or disclose it to the *Contractor* free of any obligation of confidence;
- .3 the *Contractor* can demonstrate to have been rightfully known to or in the possession of the *Contractor*, free of any obligation of confidence, when disclosed; or
- .4 is independently developed by the *Contractor* without the use of any of the *Owner's* Confidential Information.

*Conflict of Interest* includes, but is not limited to, any situation or circumstance where the interests, conduct, other commitments or relationships of a *Contractor*, a *Contractor's* family member or an officer, director or employee of the *Contractor* could or could be perceived to, directly or indirectly, compromise, impair or be in conflict with the interests of the *Owner*.

*Construction Act* means the *Construction Act*, R.S.O. 1990, c. C.30, as amended, including all regulations passed under it that are enforceable as of the date of execution of this *Contract*. For certainty, the first procurement process for the Project (i.e., the "improvement" as that term is defined in the *Construction Act*) was commenced on or after October 1, 2019 and Parts I.1 (Prompt Payment) and II.1 (Construction Dispute Interim Adjudication) of the *Construction Act* apply to this *Contract*.

*Construction Schedule* or construction schedule means the schedule for the performance of the *Work Submitted* by the *Contractor* and *Accepted* by the *Owner* pursuant to GC 3.4 – CONSTRUCTION SCHEDULE, including any amendments to the *Construction Schedule* made pursuant to the *Contract Documents*.

*Dispute* means all unresolved claims, disputes or controversies of any kind arising out of or in connection with this *Contract* or the carrying out of the *Work*.

*Environmental Contaminants* means any substance, material or waste defined, regulated, listed or prohibited by Environmental Laws;

*Environmental Laws* means all applicable federal, provincial, territorial, municipal and local laws, statutes, ordinances, by-laws and regulations, judgments, decrees, common laws and principles thereof, and orders, directives and decisions rendered or issued by any *Authority Having Jurisdiction* relating to Environmental Contaminants or the protection of human health, natural resources or the environment;

*Estimate* means a calculation of the quantity or cost of the *Work* or part of it depending on the context.

*Excess Soil* means "excess soil" as that term is defined under section 3 of the *Excess Soil Regulation*.

*Excess Soil Regulation* means O. Reg. 406/19: On-Site and Excess Soil Management to the Environmental Protection Act, R.S.O. 1990, c. E.19, as amended.

*Extended Warranty* means the extended warranties described in the *Specifications* and *Extended Warranty Period* means the period or periods described in the *Specifications*;

*Force Majeure* means an event or a cause beyond the control of a party, which may include war, interference by civil or military authorities, civil insurrection, local or national emergency, blockade, seizure, riot, sabotage, vandalism, terrorism, earthquake, flood, act of God, accident, fire, nuclear or other explosion, disease, epidemic, pandemic, quarantine restriction, strike, lockout or other labour disturbance, governmental embargo, or changes to any acts, orders, legislation, regulations, directives, or priorities of any government or *Authority Having Jurisdiction*; provided such event is not caused by the affected party's negligence, default, failure to exercise reasonable diligence, bankruptcy or insolvency. A *Force Majeure* event or cause does not include an inability to pay or a lack of financial resources unless it is due to a failure of the province to approve the appropriation from the Consolidated Revenue Fund for the *Project*.

*Impact Assessment Reports* means the impact assessment reports, if any, listed in the RFP related to the Fisheries Act; Navigable Waters Act; Lakes and Rivers Improvement Act; heritage reviews; Endangered Species Act and Species at Risk Act; terrestrial resources (vegetation, wildlife, other features); socio-economic impacts and Indigenous consultations.

*Intellectual Property* means any improvement, invention or discovery, whether or not patented or patentable, any technical data, know-how or trade secret, any design, any computer software or any work subject to copyright, whether or not such design or copyright is registered or registrable and all Intellectual Property rights contained, embedded or disclosed in the *Work*.

*Notice of Non-Payment* means a notice of non-payment (Form 1.1) under the *Construction Act*.

*Payment Period* or 'payment period' means the fixed segments of time for which the *Contractor* shall be entitled to claim payment for *Work* performed during such period, as agreed upon by the *Owner* and the *Contractor* at the first pre-construction meeting. To be effective, such agreement must be in writing or reflected in the final and approved pre-construction meeting minutes. In the event that the *Owner* and the *Contractor* do not fix the segment of time for each *Payment Period* at the first pre-construction meeting, then each *Payment Period* shall be a one (1) month period during which *Work* was performed, with the start and end dates of each *Payment Period* deemed to be the first (1st) calendar day of the applicable month and the last calendar day of the same month, respectively.

*Personal Information* means information that relates to an identifiable individual or that identifies or may identify an individual as defined in section 2 of the *Freedom of Information and Protection of Privacy Act*, R.S.O. 1990, c.F.31, as amended.

*Pre-Invoice Submission Meeting* has the definition given to it under GC 5.2.1.

*Proper Invoice* means a "proper invoice" as that term is defined in Section 6.1 of the *Construction Act* that complies with the minimum requirements set out in Schedule A to the Supplementary Conditions.

*Proper Invoice Submission Date* is the date referenced in GC 5.2.2.

*Restricted Period (Adjudication)* means the (inclusive) period of time between November 15 in one calendar year to January 2 in the next calendar year, in any given year throughout the duration of the *Contract*.

*Restricted Period (Proper Invoice)* means the (inclusive) period of time between December 10 to December 28 in any given year throughout the duration of the *Contract*.

*RFP* means the procurement documents used by the *Owner* for the procurement of the *Contractor* for the *Project*.

*Statutory Declaration* means the "Ontario Northland Statutory Declaration of Progress Payment Distribution by *Contractor*" form, attached to the Supplementary Conditions as Schedule "B".

*Submittal(s)* means all documentation prepared by the *Contractor* and submitted to the *Owner* and/or the *Consultant* for review and *Acceptance* in accordance with the *Contract Documents*.

*Third-Party Property Owner* means the owner, tenant or other person having the right to use a property.

*Warranty Period* means the period during which the *Contractor* provides a warranty for the *Work* described in GC 12.3.

*Waste Management Plan* means the plan to be submitted by the *Contractor* to the *Owner* and the *Consultant* described in GC 3.11.1 and *Waste Management Report* has the meaning described in the Specifications."

7.2 Delete the definition of "*Contract Price*" and replace it with the following:

"*Contract Price* is the amount payable by the *Owner* to the *Contractor* for *Work* to be completed under the *Contract* in accordance with the method and manner of payment stipulated in the *Contract Documents* and the lump sum price submitted by the *Contractor* in its proposal as stipulated in Article A-4.1 as amended by any Change Orders."

7.3 At the end of the definition of "Drawings", add the following words "and a Waste Management Plan."

- 7.4 Delete the definition of “*Payment Legislation*”.
- 7.5 Amend the definition of *Ready-for-Takeover* by deleting all the words after “as verified” and replacing them with “and *Accepted* by the *Owner*.”

## AMENDMENTS TO THE GENERAL CONDITIONS OF THE STIPULATED PRICE CONTRACT

### 8. GC 1.1 CONTRACT DOCUMENTS

8.1 Where a General Condition or paragraph of the General Conditions of the Stipulated Price Contract is deleted by these Supplementary Conditions, the numbering of the remaining General Conditions or paragraphs shall remain unchanged, and the numbering of the deleted item will be retained, unused.

8.2 Delete paragraph 1.1.3 and replace it with the following:

“1.1.3 “The *Contractor* shall review the *Contract Documents* and shall report promptly to the Consultant any error, inconsistency or omission the *Contractor* may discover. Such review by the *Contractor* shall comply with the standard of care described in paragraph 3.12.1 of the *Contract*. Except for its obligation to make such review and report the result, the *Contractor* does not assume any responsibility to the *Owner* or to the Consultant for the accuracy of the *Contract Documents*. Provided it has exercised the degree of care and skill described in this paragraph 1.1.3, the *Contractor* shall not be liable for damage or costs resulting from such errors, inconsistencies, or omissions in the *Contract Documents* which the *Contractor* could not reasonably have discovered. If the *Contractor* does discover any error, inconsistency or omission in the *Contract Documents*, the *Contractor* shall immediately notify the *Owner* and shall not proceed with the work affected until the *Contractor* has received corrected or missing information from the Consultant. If the *Contractor* finds discrepancies in and/or omissions from the *Contract Documents* or has any doubt as to the meaning or intent of any part thereof, the *Contractor* must immediately notify the Consultant by means of a written Request for Information (“RFI”) and the Consultant will provide written instructions or explanations. Neither the *Owner* nor the Consultant will be responsible for oral instructions.”

8.3 Delete paragraph 1.1.4 and replace it with the following:

“1.1.4 Notwithstanding the foregoing, errors, inconsistencies and/or omissions shall not include lack of reference on the Drawings or in the Specifications to labour and/or Products that are required or normally recognized within respective trade practices as being necessary for the complete execution of the Work. The *Contractor* shall not use RFIs, issued during execution of the Work, in and of themselves to establish a change and/or changes in the Work pursuant to Part 6 – CHANGES IN THE WORK. In the event an RFI or the cumulative effect of RFIs leads to what the *Contractor* considers to be a change in the Work, then the procedure under Part 6 – CHANGES IN THE WORK shall be followed.”

8.4 Delete paragraph 1.1.5.1 in its entirety and replace it with new 1.1.5.1:

“the order of priority of *Contract Documents*, from highest to lowest, shall be:

- Special Provisions, if any
- ONTC Special Supplementary Conditions, if any
- ONTC Supplementary Conditions to CCDC 2
- Agreement between the Owner and the Contractor
- Definitions
- General Conditions
- Addenda to the RFP
- Appendix B to the RFP – RFP Particulars
- Appendix G to the RFP – Technical Specifications
- Appendix H to the RFP – Issue for Tender Drawings
- Contractor’s Proposal”

8.5 Add a new subparagraph 1.1.5.6 as follows:

“.6 Schedules of Division 01 - General Requirements of the Specifications shall form part of and be read in conjunction with the technical specification section.”

8.6 Add a new sentence to the end of paragraph 1.1.9 as follows:

“The Specifications are divided into divisions and sections for convenience but shall be read as a whole and neither such division nor anything else contained in the *Contract Documents* will be construed to place responsibility on the Consultant to settle Disputes among the Subcontractors and Suppliers in respect to such divisions.”

8.7 Delete paragraph 1.1.10 in its entirety and replace it with new paragraph 1.1.10:

“All *Submittals* and *Intellectual Property* rights produced by or resulting from the Work, including all Specifications, Drawings, models and copies thereof, shall vest in the *Owner* and are the sole and absolute property of the *Owner* as and when created. The *Contractor* hereby irrevocably assigns and conveys and agrees to assign and convey, without further consideration, all right, title and interest in and to the Intellectual Property rights produced or resulting from the Work, in perpetuity and throughout the world, to the *Owner* and its successors and assigns. This paragraph 1.1.10 shall survive termination of the *Contract*.”

8.8 Add new paragraphs 1.1.12, 1.1.13, 1.1.14, 1.1.15, 1.1.16, and 1.1.17 as follows:

1.1.12 The *Owner* shall provide the *Contractor*, without charge, an electronic version of the *Contract Documents*.

1.1.13 If an item is shown on one document, and it can be reasonably inferred that it was intended to include work not shown on other related documents, the *Contract Price* shall nevertheless include for the cost of the item of work, unless the Consultant agrees otherwise.

1.1.14 Where a provision in the *Contract* is made for the giving or issuing of any Notice in Writing, consent, Acceptance, approval, certificate or determination by any person, unless otherwise specified such Notice in Writing, consent, Acceptance, approval certificate or determination shall be in writing and shall not unreasonably be withheld or delayed.

1.1.15 The *Contractor* shall keep one copy of the current *Contract Documents*, Supplemental Instructions, contemplated change orders, Change Orders, Change Directives, reviewed Shop Drawings, reports and records of meetings at the Place of Work in good order and available to the *Owner* and the Consultant.

1.1.16 The *Contractor* shall keep one copy of current standards and manufacturers' literature specified in the *Contract Documents* at the Place of Work in good order and available to the Consultant and the *Owner* for the duration of the Work.

1.1.17 The Drawings are, in part, diagrammatic and are intended to convey the scope of the Work and indicate general and appropriate locations, arrangement and sizes of materials. The *Contractor* shall obtain more accurate information about the locations, arrangement and sizes from study and coordination of the *Drawings* and shall become familiar with conditions and spaces affecting these matters before proceeding with the Work. Where site conditions require minor changes in indicated locations and arrangements, the *Contractor* shall make such changes at no additional cost to the *Owner*.”

## 9. GC 1.2 LAW OF THE CONTRACT

9.1 Delete paragraph 1.2.1 in its entirety and replace it with new paragraph 1.2.1:

“This *Contract* shall be governed by and constituted in accordance with the laws in force in the Province of Ontario excluding any conflict of laws principles. The parties hereby irrevocably attorn to the exclusive jurisdiction of the courts of the Province of Ontario for any legal proceedings arising out of this *Contract* or the performance of the obligations hereunder.”

## 10. GC 1.4 ASSIGNMENT

10.1 Delete paragraph 1.4.1 in its entirety and replace it with new paragraph 1.4.1:

“Neither party to the *Contract* shall assign the *Contract* or a portion thereof without the written consent of the other, which consent, in the case of the *Owner*, is at the sole discretion of the *Owner*. In the event of an

assignment of the *Contract* by the *Contractor*, such assignment shall require prior written consent of the *Owner* and shall not relieve the *Contractor* from its obligations and liabilities hereunder.”

## **11. GC 2.1 AUTHORITY OF THE CONSULTANT**

- 11.1 Amend GC 2.1.2. by deleting the words “the *Owner*, the *Consultant* and the *Contractor*” and replacing them with “the *Owner* and the *Consultant*.”

## **12. GC 2.2 ROLE OF THE CONSULTANT**

- 12.1 Amend paragraph 2.2.4 by adding the words “Within 7 calendar days of receipt of the *Contractor*’s Proper Invoice,” at the beginning of the paragraph.

- and -

Add to the end of the paragraph the following words “If the *Consultant* determines that the amount payable to the *Contractor* differs from the amount stated in a Proper Invoice, the *Consultant* shall immediately notify the *Owner* as provided in paragraph 5.3.1.1 and prepare a draft of the applicable Notice of Non-Payment for the amount in dispute.”

- 12.2 Amend paragraph 2.2.5 by adding to the beginning of the paragraph:

“Except as provided otherwise in the agreement between the *Consultant* and the *Owner*,”

- 12.3 Amend paragraph 2.2.12 by adding the following to the end of that paragraph:

“The *Supplemental Instructions* are not a change in the *Contract Documents*. If, in the opinion of the *Contractor*, the *Supplemental Instruction* requires an adjustment in the *Contract Price* or in the *Contract Time*, it shall, within three (3) Working Days after receipt of a *Supplemental Instruction* provide the *Consultant* and the *Owner* with Notice in Writing to that effect. Failure to provide Notice in Writing within the time stipulated in this paragraph 2.2.12 shall be deemed an acceptance of the *Supplemental Instruction* by the *Contractor* without adjustment in the *Contract Price* or *Contract Time*.”

- 12.4 Delete paragraph 2.2.18 in its entirety and replace it with the following:

“The *Consultant* shall provide the *Contractor* with editable CAD *Drawings* (the “*Consultant Supplied Drawings*”) for the sole purpose of the *Contractor* developing the *As-Built Drawings* and the *As-Built Record Drawings* following submission by the *Contractor* of the release form provided by the *Consultant*. The *Contractor* shall maintain the integrity of the *Consultant Supplied Drawings* and shall ensure that no edits are made to the *Consultant Supplied Drawings*. The *Contractor* may save a copy of the *Consultant Supplied Drawings* to a new file (the “*Duplicate Drawing File*”) and make edits to the *Duplicate Drawing File* as required to complete the *As-Built Drawings* and the *As-Built Record Drawings*.”

## **13. GC 2.3 REVIEW AND INSPECTION OF THE WORK**

- 13.1 Add new paragraph 2.3.8 as follows:

“Where inspection and testing services are specified, the service provider employed for such services shall be the service provider named by the *Owner*.”

- 13.2 Add new paragraph 2.3.9 as follows:

“Where standards of performance are specified and the Work does not comply with the specified standard of performance, the deficiency in the Work shall be corrected as directed by the *Consultant*. Subsequent testing to ensure that the standard of performance has been attained (including re-testing by *Owner*), shall be carried out at the *Contractor*’s expense and shall not be paid from the cash allowances described in GC 4.1.”

## **14. GC 2.4 DEFECTIVE WORK**

- 14.1 Add new paragraphs 2.4.1.1, 2.4.1.2, 2.4.1.3 and 2.4.1.4 as follows:

- .1 Without limiting the foregoing, the *Contractor* shall rectify, in a manner acceptable to the *Owner* and the *Consultant*, all defective work and deficiencies throughout the Work, whether or not they are specifically identified by the *Consultant*.
- .2 The *Contractor* shall prioritize the correction of any *Defective* work which, in the sole discretion of the *Owner*, adversely affects the day to day operations of the *Owner*.
- .3 All such corrections of defective work and deficiencies shall be at the *Contractor's* expense.
- .4 If the *Contractor* fails to do the work to correct the defective Work or deficiencies, the *Owner* may carry out such remediation work by its own forces or by other *Contractors* and the *Owner* shall be entitled to recover from the *Contractor* the costs thereof or may deduct the same from any monies due or that become due to the *Contractor*."

14.2 Add new paragraph 2.4.4 as follows:

- "2.4.4 Neither the *Acceptance* of the *Work* by the *Consultant* or the *Owner*, nor any failure by the *Consultant* or the *Owner* to identify, observe or warn of defective *Work* or any deficiency in the *Work* shall relieve the *Contractor* from the sole responsibility for rectifying such defect or deficiency at the *Contractor's* sole cost, even where such failure to identify, observe or warn is negligent."

## **15. GC 2.5 EMERGENCY SITUATIONS**

15.1 Add new GC 2.5 EMERGENCY SITUATIONS as follows:

- .1 The *Consultant* or the *Owner* has the right to determine the existence of an emergency situation and, when such an emergency situation is deemed to exist, the *Consultant* may instruct the *Contractor* to take action to remedy the situation. If the *Contractor* does not take timely action or, if the *Contractor* is not available, the *Consultant* may direct others to remedy the situation. Any such action or direction taken by the *Owner* shall not relieve the *Contractor* of its responsibilities as the "constructor" pursuant to the Occupational Health and Safety Act (Ontario).
- .2 If the emergency situation was the fault of the *Contractor*, the remedial work shall be completed at the cost of the *Contractor* and with no additional cost to the *Owner* and the *Owner* shall be entitled to seek reimbursements for all costs associated with the remedial work including the cost of work done by third parties.
- .3 If the emergency situation was not the fault of the *Contractor*, the *Owner* shall pay for the remedial work."

## **16. GC 3.1 CONTROL OF THE WORK**

16.1 Add new paragraph 3.1.3 as follows:

"Prior to commencing individual procurement, fabrication and construction activities, the *Contractor* shall verify, at the Place of the Work, all relevant measurements and levels necessary for proper and complete fabrication, assembly and installation of the Work and shall further carefully compare such field measurements and conditions with the requirements of the *Contract Documents*. Where dimensions are not included or exact locations are not apparent, the *Contractor* shall immediately notify the *Consultant* in writing and obtain written clarification from the *Consultant* before proceeding with any part of the affected Work."

16.2 Add new paragraph 3.1.4 as follows:

"The *Contractor* shall perform the work in a good and workmanlike manner, using new materials, in accordance with all applicable laws and current best practices and standards in the construction industry at the Place of Work. The *Contractor* acknowledges that both time and quality are of the essence and the *Contractor* will perform the Work or cause the Subcontractors and Suppliers to perform the Work in accordance with the Construction Schedule, as amended from time to time, and in an expeditious and professional manner.

## **17. GC 3.2 CONSTRUCTION BY OWNER OR OTHER CONTRACTORS**

17.1 Add new paragraph 3.2.3.5 as follows:

“Subject to GC 9.4 – CONSTRUCTION SAFETY, for the *Owner’s* own forces and for *Other Contractors*, assume overall responsibility for compliance with all aspects of the applicable health and safety legislation of the Place of the Work, including all of the responsibilities of the “Constructor” under the *Occupational Health and Safety Act* (Ontario).”

18.3 Add new paragraph 3.2.3.6 as follows:

“provide for the co-ordination of the activities and work of *Other Contractors* and *Owner’s* own forces with the *Work of the Contract*.”

## 18. GC 3.4 CONSTRUCTION SCHEDULE

18.1 Delete paragraph 3.4.1 in its entirety and replace it with the following:

“3.4.1 The *Contractor* shall:

.1 within 10 *Working Days* from the date of the *Contract* award, prepare for the *Owner’s* and *Consultant’s* review and *Acceptance*, a construction schedule, including identification of the critical path of the *Work*, the schedule of operations, the proposed methods of construction and sequence of *Work*, and the time the *Contractor* proposes to complete the various items of *Work* within the *Contract Time*. The schedule shall be designed to ensure conformity with the *Contract Time*. The schedule will be in a Gantt chart format in either .pdf or excel format and include:

- (a) activity sequences and durations;
- (b) process for obtaining any required permits;
- (c) work block planning and track protection requested;
- (d) special allocation of labour and *Products*;
- (e) processing of *Shop Drawings* and samples;
- (f) delivery of *Products* involving long lead time procurement;
- (g) usage and occupancy requirements of the *Owner* of those portions of the *Work* having usage or occupancy priority;
- (h) *Substantial Performance of the Work*, and *Ready-for-Takeover* reflecting that such milestones will be achieved by no later than the dates specified in Article A-1.3; and
- (i) any other schedule requirements set out in the *Contract Documents*.

If the construction schedule submitted by the *Contractor* is not *Accepted* by the *Owner* and the *Consultant*, the *Contractor* shall make revisions to the construction schedule until it is *Accepted* by the *Owner* and the *Consultant*. Once *Accepted* by the *Owner* and the *Consultant*, the schedule submitted by the *Contractor* shall become the “*Construction Schedule*.” Notwithstanding any other terms of this *Contract*, the *Contractor* shall not be entitled to receive any payment from the *Owner* until a construction schedule has been submitted by the *Contractor* and *Accepted* by the *Owner* and the *Consultant*. The *Owner* may, at its sole discretion, not issue an order to commence work until the schedule has been received and *Accepted*.

.2 during performance of the *Work* and in accordance with the controls and reporting requirements in the *Contract Documents*, provide for the *Consultant’s* and *Owner’s* review and *Acceptance*, progress reports updating the *Construction Schedule*, reporting on the progress achieved, percentage of completion, schedule status and financial status with areas of immediate concern highlighted. If the schedule is affected by approved *Change Orders*, the *Contractor* shall submit an updated *Construction Schedule*, if requested by the *Consultant*, within 7 *Working Days* of the request. This updated schedule shall show how the *Contractor* proposes to perform the balance of the *Work*, so as to complete the *Work* within the *Contract Time*.

- .3 provide progress reports with each application for payment, in the form provided by the *Owner* attached as Schedule C, for review and *Acceptance*, including an update of the *Construction Schedule* referred to in paragraph 3.4.1.”

18.2 Add new paragraphs 3.4.2 and 3.4.3 as follows:

“3.4.2 If,

- .1 at any time it should reasonably appear to the *Owner* or the *Consultant* that the actual progress of the *Work* is behind schedule or is likely to become behind schedule, based on critical path methodology, and Notice in Writing of such opinion is given to the *Contractor*; or

- .2 the *Contractor* becomes aware of or notices a slippage in the *Construction Schedule*,

then the *Contractor* shall take appropriate steps to cause the actual progress of the *Work* to conform to the *Construction Schedule* and shall produce and present to the *Owner* and the *Consultant*, for their review and *Acceptance*, within 5 *Working Days* after becoming aware of the schedule slippage, a recovery plan demonstrating how the *Contractor* will achieve the recovery of the *Construction Schedule*.

- 3.4.3 The *Contractor* is responsible for performing the *Work* within the *Contract Time*. Any schedule submissions revised from the *Accepted* baseline *Construction Schedule* or *Accepted* revised *Construction Schedule* pursuant to GC 3.4 CONSTRUCTION SCHEDULE, during construction are deemed NOT to be approved extensions to the *Contract Time*. Revisions to the *Construction Schedule* shall not be made without the prior written *Acceptance* of the *Owner*. All requests by the *Contractor* for a revision to the *Construction Schedule* that includes an extension to the *Contract Time* or adjustment to the date(s) for *Substantial Performance of the Work* or *Ready-for-Takeover* must be approved by the *Owner* through an executed *Change Order*.”

## 19. GC 3.5 SUPERVISION

19.1 Amend paragraph 3.5.1 by adding at the end of that paragraph:

“..., and upon the *Contractor* obtaining the *Owner's* written consent, which consent will not be unreasonably withheld.”

19.2 Add new paragraph 3.5.3 as follows:

“Notwithstanding paragraph 3.5.2, the representative of the *Contractor* attending a meeting with one or more of the *Owner*, the *Owner's* representative and the *Consultant* shall be deemed to have authority to act on behalf of the *Contractor* and bind the *Contractor* in matters related to this *Contract*.”

19.3 Add new paragraph 3.5.4 as follows:

“The *Owner* may, at any time during the course of the *Work*, request the replacement of the appointed *Contractor's* representative(s), where the grounds for the request involve conduct on the part of the *Contractor's* representative(s) which jeopardizes the safety of the *Owner's* operations or the *Work* or the proper progress of the *Work*. Immediately upon receipt of the request, the *Contractor* shall make arrangements to appoint an *Acceptable* replacement. The *Contractor* shall indemnify and hold the *Owner* harmless from and against any damages, costs, expenses, claims, injuries and other liabilities suffered by the *Owner* arising from the conduct of the representative that is being replaced.”

## 20. GC 3.6 SUBCONTRACTORS AND SUPPLIERS

20.1 Add new paragraph 3.6.1.4:

“ensure the *Subcontractors* and *Suppliers*, while working on the *Owner's* property, are aware of and comply with the *Owner's* policies, including its Fit for Duty Policy, and with the Ontario Northland Operating Manual, including the Current Summary Bulletin, the current Ontario Northland Time Table, C.R.O.R. 2022, Infrastructure Special Instructions, Dangerous Goods and Ontario Northland General Operating Instructions, as applicable.”

20.2 Delete paragraph 3.6.2 in its entirety and replace it with new paragraph 3.6.2

"The *Contractor* shall not change Subcontractors or Suppliers identified in the *Contract Documents* without the prior written approval of the *Owner* which approval will not be unreasonably withheld."

20.3 Delete paragraphs 3.6.3 and 3.6.4 in their entirety and replace them with "Intentionally Left Blank".

20.4 Add new paragraph 3.6.7 as follows:

"The responsibility as to which *Supplier* and/or *Subcontractor* provides the specific labour, *Products* and services for each item of work rests solely with the *Contractor*, within and in accordance with the requirements and limitations listed in the *Contract Documents* with respect to approval of Suppliers and/or Subcontractors permitted to perform work on the Project."

## **21. GC 3.7 LABOUR AND PRODUCTS**

21.1 Amend paragraph 3.7.1 by adding the words, "..., agents, *Subcontractors* and *Suppliers* ..." after the word "employees".

21.2 Amend paragraph 3.7.2 by adding the following words at the beginning of the paragraph: "Except as otherwise provided in the technical *Specifications*" and adding the following sentence at the end of that paragraph:

"The *Contractor* represents and warrants that the *Products* supplied by the *Contractor* in accordance with the *Contract* are not subject to any conditional sales contract and are not subject to any security rights obtained by any third party which may subject any of the *Products* to seizure and/or removal from the Place of the Work."

21.3 Add new paragraph 3.7.4 as follows:

"Upon receipt of a Notice in Writing from the *Consultant*, the *Contractor* shall take action to rectify any situation involving its employee, agent, *Subcontractor* or *Supplier* whose work is unsatisfactory to the *Consultant* or the *Owner* or who are considered by the *Consultant* or the *Owner* to be unskilled or otherwise objectionable. If after giving sufficient warning the *Contractor* is not able to reasonably rectify such situation, then such employee, agent, *Subcontractor* or *Supplier* shall be dismissed from the Place of the Work and the *Contractor* shall indemnify and hold the *Owner* and the *Consultant* harmless from and against any damages, costs, expenses, claims, injuries and other liabilities suffered by the *Owner* or the *Consultant* arising from the dismissal of such employee, agent, *Subcontractor* or *Supplier*."

21.4 Add new paragraph 3.7.5 as follows:

"The *Contractor* is responsible for the safe on-site storage of *Products* and their protection (including *Products* supplied by the *Owner* and *Other Contractors* to be installed under the *Contract*) in such ways as to avoid dangerous conditions or contamination to the *Products* or other persons or property and in locations at the *Place of the Work* identified by the *Contractor* and *Accepted* by the *Owner* and the *Consultant*. The *Owner* shall provide all relevant information on the *Products* to be supplied by the *Owner* or *Other Contractors*."

21.5 Add new paragraph 3.7.6 as follows:

"The *Contractor* shall not employ any persons to perform Work whose labour affiliation, or lack thereof, is incompatible with other labour employed in connection with the Work. Any costs arising from labour disputes, as a result of the employ of any such person by the *Contractor*, its Subcontractors or Suppliers shall be at the sole expense of the *Contractor*."

21.6 Add new paragraph 3.7.7 as follows:

"The *Contractor* and the *Owner* and its representatives shall cooperate and shall take all reasonable and necessary actions to maintain stable and harmonious labour relations with respect to the Work at the Place of the Work, including cooperation to attempt to avoid work stoppages, trade union jurisdictional disputes and other labour disputes."

## **22. GC 3.8 SHOP DRAWINGS**

22.1 Delete paragraph 3.8.7 and replace it with the following:

“3.8.7 The *Consultant* will review and return *Shop Drawings* in accordance with the schedule agreed upon as described in paragraph 3.8.2, or, in the absence of such schedule, with reasonable promptness. If, for any reason, the *Consultant* cannot process them within the agreed-upon schedule or with reasonable promptness, the *Consultant* shall notify the *Contractor* and they shall meet to review and develop a revised schedule for processing such *Shop Drawings* that is *Acceptable* to the *Owner*. The *Contractor* shall update the *Shop Drawings* schedule to correspond to changes in the *Construction Schedule*. Changes in the *Contract Price* or *Contract Time* may be made only in accordance with GC 6.1, GC 6.2 or GC 6.3”

22.2 Add new paragraphs 3.8.8, 3.8.9, 3.8.10 and 3.8.11 as follows:

3.8.8 The *Contractor* shall provide *Shop Drawings* and *Submittals* in the form specified, or if not specified, as directed by the *Consultant*. *Shop Drawings* provided by the *Contractor* to the *Consultant* shall indicate by stamp, date and signature of the person responsible for the review that the *Contractor* has reviewed each one of them. Certain *Specifications* sections require the *Shop Drawings* to bear the seal and signature of a professional engineer. Such professional engineer must be registered in the jurisdiction of the Place of the Work and shall have expertise in the area of practice reflected in the *Shop Drawings*.

3.8.9 *Shop Drawings* which require approval of any *Authority Having Jurisdiction* shall be provided to such authority by the *Contractor* for the authority's approval.

3.8.10 The *Contractor* shall provide revised *Shop Drawings* to correct those which the *Consultant* rejects as inconsistent with the *Contract Documents*, unless otherwise directed by the *Consultant*. The *Contractor* shall notify the *Consultant* in writing of any revisions to the *Shop Drawings* other than those requested by the *Consultant*.

3.8.11 Reviewed *Shop Drawings* shall not authorize a change in the *Contract Price* and/or the *Contract Time*.”

## **23. GC 3.9 USE OF THE WORK**

23.1 Add new GC 3.9 – USE OF THE WORK as follows:

### **“GC 3.9 USE OF THE WORK**

3.9.1 The *Contractor* shall confine *Construction Equipment*, *Temporary Work*, storage of *Products*, waste products and debris, and operations of employees and *Subcontractors* to limits indicated by laws, ordinances, permits, or the *Contract Documents* and shall not unreasonably encumber the Place of the Work.

3.9.2 The *Contractor* shall not load or permit to be loaded any part of the *Work* with a weight or force that will endanger the safety of the Work.

3.9.3 The *Owner* shall have the right to enter or occupy the *Place of the Work* in whole or in part for the purpose of placing fittings and equipment, or for other use before *Ready-for-Takeover*, if, in the opinion of the *Consultant*, such entry and occupation does not prevent or substantially interfere with the *Contractor* in the performance of the *Contract* within the *Contract Time*. Such entry or occupation shall neither be considered as acceptance of the Work or in any way relieve the *Contractor* from its responsibility to complete the *Contract*.”

## **24. GC 3.10 CUTTING AND REMEDIAL WORK**

24.1 Add new GC 3.10 – CUTTING AND REMEDIAL WORK as follows:

### **“GC 3.10 CUTTING AND REMEDIAL WORK**

3.10.1 The *Contractor* shall perform the cutting and remedial work required to make the affected parts of the Work come together properly. Such cutting and remedial work shall be performed by specialists familiar with the *Products* affected and shall be performed in a manner to neither damage nor endanger the Work.

3.10.2 The *Contractor* shall coordinate the Work to ensure all cutting and remedial work required is kept to a minimum.”

## 25. GC 3.11 CLEANUP

25.1 Add new GC 3.11 – CLEANUP as follows:

### “GC 3.11 CLEANUP

- 3.11.1 The *Contractor* shall comply with all requirements for cleanup at the *Place of the Work* as specified in the *Contract Documents*. The *Contractor* shall provide to the *Owner* for *Acceptance* a *Waste Management Plan*, and a waste reduction plan if required by *Environmental Laws*, for the waste products, debris and any *Excess Soils* generated by the *Work*, which plan shall comply with all *Environmental Laws* and the *Specifications*. The costs of disposing of all waste products and debris, including products and debris containing *Environmental Contaminants*, and *Excess Soil* resulting from the *Work* is included in the *Contract Price*.
- 3.11.2 Before applying for *Substantial Performance of the Work*, the *Contractor* shall remove waste products and debris and shall leave the *Place of the Work* clean and suitable for use or occupancy by the *Owner*. All products, tools, *Construction Equipment* and *Temporary Work* not required for the performance of any remaining *Work* shall be removed by the *Contractor*.
- 3.11.3 As a condition precedent to final payment, the *Contractor* shall remove any remaining products, tools, *Construction Equipment*, *Temporary Work*, waste products and debris from the *Place of the Work* to the satisfaction of the *Owner*.
- 3.11.4 In performing work to correct deficiencies or work under warranty following *Ready-for-Takeover* of the *Work*, the *Contractor* shall maintain the *Place of the Work* in a tidy condition and shall immediately remove waste products and debris.
- 3.11.5 The *Contractor* shall comply with all *Environmental Laws* in disposing of the waste products, debris and *Excess Soil* resulting from the *Work*. The *Contractor* shall assume all liability and responsibility for any waste products, debris and *Excess Soil*, including any such materials containing *Environmental Contaminants*, which are removed from the *Place of the Work* by the *Contractor* and during the transportation of the waste products, debris and *Excess Soils* to the appropriate waste disposal site. The *Contractor* shall submit landfill weigh bills from a waste disposal site as proof that all waste has been disposed of at a certified waste disposal site. The *Contractor* shall submit a *Waste Management Report* as part of the *Close-Out Documentation* described in paragraph 5.5.1.2 to be submitted with the application for verification of *Ready-for-Takeover*.
- 3.11.6 In the event that the *Contractor* fails to remove waste and debris as provided in this GC 3.11, then the *Owner* or the *Consultant* may give the *Contractor* twenty-four (24) hours' *Notice in Writing* to meet its obligations respecting clean up. Should the *Contractor* fail to meet its obligations pursuant to this GC 3.11 within the twenty-four (24) hour period next following delivery of the notice, the *Owner* may remove such waste and debris and deduct from payments otherwise due to the *Contractor*, the *Owner's* costs for such clean up, including a reasonable mark-up for *Administration Costs*.”

## 26. GC 3.12 PERFORMANCE BY CONTRACTOR

26.1 Add new GC 3.12 – PERFORMANCE BY CONTRACTOR as follows:

### “GC 3.12 PERFORMANCE BY CONTRACTOR

- 3.12.1 In performing its obligations, duties and responsibilities under this *Contract*, the *Contractor* shall exercise the degree of care, skill and diligence that would normally be exercised by an experienced, skilled and prudent contractor supplying similar services for similar projects. The *Contractor* acknowledges and agrees that, throughout this *Contract*, the *Contractor's* obligations, duties and responsibilities shall be judged, evaluated and interpreted in accordance with this standard. The *Contractor* shall exercise the same standard of care in respect of any *Products*, *Subcontractors*, *Suppliers*, personnel or procedures which it may recommend to the *Owner* or employ on the *Project*.
- 3.12.2 The *Contractor* further represents, covenants and warrants to the *Owner* that:
- .1 The personnel and *Subcontractors* it assigns to the *Project* are appropriately experienced;

- .2 It has a sufficient staff of qualified and competent personnel to replace its designated supervisor and project manager, subject to the *Owner's* approval, in the event of death, incapacity, removal or resignation; and
- .3 there are no pending, threatened or anticipated claims that would have a material effect on the financial ability of the *Contractor* to perform its work under the *Contract*."

3.12.3 The *Owner* has a Vendor Performance Policy which requires the *Owner* to complete an evaluation of the *Contractor's* performance of its obligations under this *Contract*. The performance evaluation of the *Contractor* for the supply of the *Work* will be used in the assessment of the *Contractor's* proposals in response to future procurements. The performance evaluation may also result in the *Contractor* being disqualified from submitting proposals in response to future procurements in accordance with the terms of the policy. The policy can be found at <http://ontarionorthland.ca/en/requests-tenders>."

## **27. 3.13 EXCESS SOIL MANAGEMENT**

27.1 Add new GC 3.13 – EXCESS SOIL MANAGEMENT as follows:

### **"GC 3.13 EXCESS SOIL MANAGEMENT**

3.13.1 The *Contractor* shall be solely responsible for the proper management of all *Excess Soil* at the *Place of the Work* and for performance of the *Work* in compliance with the rules, regulations and practices required by the *Excess Soil Regulation* until such time as *Ready-for-Takeover* is achieved. Without restricting the generality of the previous sentence, the *Contractor's* responsibility under this GC 3.13 includes the testing, designation, transportation, tracking, temporary and/or final placement, record keeping, and reporting of all *Excess Soil* in connection with the *Work* all in compliance with the *Excess Soil Regulation*.

3.13.2 The *Contractor* shall indemnify and save harmless the *Owner*, their agents, officers, directors, administrators, governors, employees, consultants, successors and assigns from and against the consequences of any and all infractions committed by the *Contractor*, or those for whom it is responsible at law, under the *Excess Soil Regulation*, or any environmental protection legislation, including the payment of legal fees and disbursements on a substantial indemnity basis."

## **27A GC 4.1 CASH ALLOWANCES**

27A.1 Add the following at the end of paragraph 4.1.2:

"The maximum markup for the *Contractor's* overhead and profit on a cash allowance shall be five percent (5%)."

27A.2 Delete the last sentence in paragraph 4.1.4.

27A.3 Delete paragraph 4.1.5 in its entirety and replace it with the following:

"The *Contract Price* shall be adjusted by *Change Order* to provide for any difference in the total value of all cash allowances and the actual cost of the *Work* performed under all cash allowances."

27A.4 Add new paragraph 4.1.8:

"4.1.8 The *Owner* may require the *Contractor* to obtain competitive bids, at no additional cost to the *Owner*, for portions of the *Work* to be paid from cash allowances."

## **28. GC 5.1 FINANCING INFORMATION REQUIRED OF THE OWNER**

28.1 Delete GC 5.1 – FINANCING INFORMATION REQUIRED OF THE *OWNER* in its entirety including all paragraphs thereunder and replace it with "Intentionally left blank."

## **28.2 GC 5.2 APPLICATIONS FOR PAYMENT**

28.3 Delete paragraph 5.2.1 in its entirety and replace it with new paragraph 5.2.1:

"5.2.1 On a *Working Day* that is not more than 10 calendar days after the end of each *Payment Period*, a

representative of the *Contractor*, *Owner*, and the *Consultant* shall attend a meeting to discuss and review the *Work* completed during the *Payment Period*, including quantities, if applicable (the “**Pre-Invoice Submission Meeting**”). The *Contractor* shall bring with it to the *Pre-Invoice Submission Meeting* the following:

- .1 a draft of its anticipated application for payment for the applicable *Payment Period*;
- .2 the schedule of values submitted in accordance with GC 5.2.4, and *Accepted* by the *Consultant* in accordance with GC 5.2.5;
- .3 *Subcontractor* and *Supplier* invoices and supporting materials;
- .4 receipts for reimbursable expenses (where expressly permitted by the *Contract*, if at all);
- .5 accounts and records documenting the cost of performing the *Work* attributable to any *Change Order* or *Change Directive*;
- .6 any visual documentation (photos, videos, diagrams) evidencing the progress of the *Work*; and
- .7 any other documents reasonably required by the *Contract Documents*, the *Owner* or *Consultant*.”

28.4 Delete paragraph 5.2.2 in its entirety and replace it with new paragraph 5.2.2:

“5.2.2 Within 5 calendar days following the *Pre-Invoice Submission Meeting*, the *Contractor* shall deliver to the *Owner*, with a copy to the *Consultant*, its application for payment that complies with the requirements of GC 5.2.6 for *Work* performed during a *Payment Period* (the “**Proper Invoice Submission Date**”), provided that if the fifth (5th) calendar day following the *Pre-Invoice Submission Meeting* falls on a calendar day that is not *Working Day*, the *Proper Invoice Submission Date* shall be deemed to fall on the next *Working Day*. However, the following shall apply to the delivery of all *Contractor* applications for payment:

- .1 If the *Contractor* fails to deliver its application for payment, at the interval prescribed in GC 5.2.2, subject to written approval by the *Owner*, the *Contractor* shall not be entitled to submit its application for payment until the next prescribed interval. Should the *Owner* decide to accept an application for payment submitted after the applicable *Proper Invoice Submission Date* (which the *Owner* is under no obligation to do), such acceptance shall not be construed as a waiver of any of the *Owner*’s rights, or as a waiver or release of the *Contractor*’s obligations to strictly comply with the requirements prescribed in this GC 5.2 – APPLICATIONS FOR PAYMENT;
- .2 If an application for payment is delivered by the *Contractor* to the *Owner* on a day that is prior to an eligible *Proper Invoice Submission Date*, the application for payment will not be considered or reviewed by the *Owner* or the *Consultant* until the earliest eligible *Proper Invoice Submission Date* as identified in GC 5.2.2, at which point the application for payment will be deemed to have been received by the *Owner* and the *Consultant* for the purpose of review and evaluation;
- .3 Notwithstanding any other provision of this *Contract*, the *Contractor* shall not deliver an application for payment for consideration as a *Proper Invoice* by the *Owner*, during the *Restricted Period* (*Proper Invoice*);
- .4 The *Owner* and the *Contractor* hereby consent to the giving and receiving of *Proper Invoices* electronically and in accordance with the requirements of this GC 5.2 – APPLICATIONS FOR PAYMENTS.”

28.5 Amend paragraph 5.2.3 by adding the following to the end of that paragraph:

“but no amount claimed shall include Products delivered to the Place of the Work unless the Products are free and clear of all security interests, liens, and other claims of third parties, subject to claims for lien pursuant to the *Construction Act*.”

28.6 Amend paragraph 5.2.4 by deleting the words “the *Consultant*, at least 15 calendar days” and replacing them with “the *Owner* and the *Consultant*, at least 30 calendar days”

- and -

add the words “in a form acceptable to the *Owner*,” after the words “*Contract Price*”.

28.7 Amend paragraph 5.2.5 by adding the words “or the *Owner*” after the words “as the *Consultant*”.

28.8 Delete paragraph 5.2.6 in its entirety and replace it with new paragraph 5.2.6:

“5.2.6 Each application for payment submitted pursuant to GC 5.2.2 shall:

- .1 be in a form prescribed, or otherwise approved in writing, by the *Owner*;
- .2 include all the requirements for a *Proper Invoice* prescribed by the *Construction Act* and the *Contract Documents*;
- .3 be delivered to the *Owner* and to the *Consultant* in the same manner as a *Notice in Writing*; and
- .4 unless otherwise directed in writing by the *Owner*, by email to [pay.inv@ontarionorthland.ca](mailto:pay.inv@ontarionorthland.ca) and to the *Owner's* representative listed in Article A-6.”

28.9 Amend paragraph 5.2.8 by adding the following new sentence at the end of that paragraph:

“Any *Products* delivered to the *Place of the Work* but not yet incorporated into the *Work* shall remain at the risk of the *Contractor* notwithstanding the title has passed to the *Owner* pursuant to GC 13.1 – OWNERSHIP OF MATERIALS.”

28.10 Add new paragraph 5.2.9 as follows:

“5.2.9 The *Contractor* shall prepare and maintain current *As-Built Drawings* which shall consist of the *Drawings* and *Specifications* revised by the *Contractor* during the *Work*, showing changes to the *Drawings* and *Specifications*, which current *As-Built Drawings* shall be maintained by the *Contractor* and made available to the *Consultant* for review with each application for progress payment. The *Owner* reserves the right to retain a reasonable amount for the value of the *As-Built Drawings* not presented for review.”

28.11 Add new paragraph 5.2.10 as follows:

“5.2.10 Upon receipt of an application for payment submitted for payment by the *Contractor* in accordance with GC 5.2 - APPLICATIONS FOR PAYMENT, the *Owner* and the *Consultant* will assess whether all of the requirements for a *Proper Invoice* are satisfied and, if the application for payment does not meet the requirements, the *Owner* or the *Consultant*, as applicable, will return the application for payment to the *Contractor* with reasons setting out why the application for payment does not meet the requirements for a *Proper Invoice* and the *Contractor* may resubmit the application for payment with all required information within 3 *Working Days* of the *Contractor's* receipt of the *Owner's* or *Consultant's* reasons. For clarity,

- .1 if an application for payment does not include all of the requirements for a *Proper Invoice* required by GC 5.2.6.2, it shall not be considered a “*Proper Invoice*” for the purposes of the *Construction Act* and the *Owner* shall have no obligation to make a payment and the time periods set out in GC 5.3 - PAYMENTS and in Section 6.4 of the *Construction Act* shall not apply until the *Contractor* has submitted an application for payment that includes all information required by GC 5.2.6.2;
- .2 if the *Contractor* fails, refuses, or neglects to resubmits its application for payment within three (3) *Working Days* after it is returned in accordance with this GC 5.2.10, the *Contractor* shall be deemed to have failed to deliver its application for payment and GC 5.2.2.1 shall apply;
- .3 where the *Contractor* disagrees with the *Owner's* or the *Consultant's* assessment that some of the of the requirements for a *Proper Invoice* required by GC 5.2.6.2 are missing from its application for payment, nothing in this GC 5.2.10 shall prevent the *Contractor* from resubmitting the same application for payment without any additional or new information; and
- .4 the *Owner* reserves the right, in its sole, absolute and unfettered discretion, to waive an error or minor irregularity in any application for payment delivered by the *Contractor* for the purposes of

deeming an application for payment a "Proper Invoice" within the meaning of the *Construction Act*, but the *Owner* shall be under no obligation to exercise this right."

## 29. GC 5.3 PAYMENT

29.1 Delete paragraph 5.3.1 in its entirety and replace it with a new paragraph 5.3.1:

"5.3.1 After receipt by the *Owner* and the *Consultant* of an application for payment submitted by the *Contractor* in accordance with GC 5.2 – APPLICATIONS FOR PAYMENT:

.1 the *Consultant* will either:

- (a) issue to the *Owner*, with a copy to the *Contractor*, a certificate for payment in the amount applied for in the *Proper Invoice*, or
- (b) issue to the *Owner*, with a copy to the *Contractor*, a certificate for payment for an amount determined by the *Consultant* to be properly due to the *Contractor* after applying any credits, withheld amounts, or other set-offs which the *Consultant* has determined that the *Owner* is entitled to notwithstanding any notice of dispute or disagreement that the *Contractor* may have served, along with the *Consultant's* reasons why an amount other than what is claimed in the *Proper Invoice* is properly due to the *Contractor*, which finding the *Owner* may accept or amend prior to the *Owner* issuing a *Notice of Non-Payment*, if any, in accordance with GC 5.3.2;

.2 the *Owner* shall make payment to the *Contractor*, on account as provided in Article A-5,

- (a) in the amount stated in the certificate for payment, or
- (b) in the amount stated in the certificate for payment less such amount stated in the *Owner's Notice of Non-Payment* issued pursuant to GC 5.3.2,

on the 28th calendar day after receipt of a *Proper Invoice*, unless such 28th calendar day lands on a day that is other than a *Working Day*, in which case payment shall be made on the next *Working Day* after such 28th day."

29.2 Add new paragraph 5.3.2 as follows:

"5.3.2 In the event that the application for payment delivered by the *Contractor* pursuant to GC 5.2 – APPLICATIONS FOR PAYMENT does not include the requirements for a *Proper Invoice* or if the *Owner* disputes the amount claimed as payable in the *Proper Invoice*, then the *Owner* shall within 14 calendar days of receipt of the application for payment, issue a *Notice of Non-Payment* (Form 1.1)."

29.3 Add new paragraph 5.3.3 as follows:

"5.3.3 Where the *Owner* has delivered a *Notice of Non-Payment*, as specified under GC 5.3.2, the *Owner* and the *Contractor* shall first engage in good faith negotiations to resolve the dispute. If within 10 calendar days following the issuance of a *Notice of Non-Payment*, the *Owner* and the *Contractor* cannot resolve the dispute, either party may issue a notice of Adjudication in a form prescribed under the *Construction Act*, in which case the *Owner* and the *Contractor* will agree to submit the dispute to *Adjudication* as set out under PART 8 – DISPUTE RESOLUTION. The amounts disputed and described under the *Notice of Non-Payment* shall be held by the *Owner* until all disputed amounts of the relevant *Proper Invoice* have been resolved pursuant to PART 8 – DISPUTE RESOLUTION. Any portion of the *Proper Invoice* which is not the subject of the *Notice of Non-Payment* shall be payable within the time period set out in paragraph 5.3.1.2."

29.4 Add new paragraph 5.3.4 as follows:

"5.3.4 Without limitation, the *Owner* shall be entitled to deduct from or, set off against, any payment of the *Contract Price* and any other amounts payable by the *Owner* to the *Contractor* under the *Contract*:

- .1 any amount expended by the *Owner* in exercising the *Owner's* rights under this *Contract* to perform any of the *Contractor's* obligations that the *Contractor* has failed to perform;

- .2 any damages, costs or expenses (including, without limitation, reasonable legal fees and expenses) incurred by the *Owner* as a result of the failure of the *Contractor* to perform any of its obligations under the *Contract*; or
- .3 any other amount owing from the *Contractor* to the *Owner* under this *Contract*.”

29.5 Add new paragraph 5.3.5 as follows:

“5.3.5 The *Contractor* represents, warrants, and covenants to the *Owner* that it is familiar with its prompt payment and trust obligations under the *Construction Act* and will take all required steps and measures to ensure that it complies with the applicable prompt payment and trust provisions under the *Construction Act* including, without limitation, section 8.1 of the *Construction Act*. Evidence of the *Contractor*’s compliance under this paragraph 5.3.5 will be made available to the *Owner* within 5 *Working Days* following receipt by the *Contractor* of a *Notice in Writing* making such request.”

### 30. C 5.4 SUBSTANTIAL PERFORMANCE OF THE WORK AND PAYMENT OF HOLDBACK

30.1 Delete paragraph 5.4.2 in its entirety and replace it with the following:

“5.4.2 After the date of *Substantial Performance of the Work* is established, the *Contractor* and all *Subcontractors* who have completed their subcontracts shall complete on a commercially reasonable efforts basis within 30 days all deficient work including providing the required *Close-Out Documentation*, unless the reasons for any delay is *Acceptable* to the *Owner*. All deficient work not completed within the above time may be completed by the *Owner* and the cost of this work may at the option of the *Owner* be deducted from the *Contractor*’s next application for payment, or otherwise recoverable upon written demand by the *Owner* to the *Contractor*.”

30.2 Delete paragraph 5.4.3 and replace it with the following:

“5.4.3 Immediately following the issuance of a certificate of Substantial Performance of the Work, the *Contractor* shall publish the certificate referred to in paragraph 5.4.1.2 in the manner provided in the *Construction Act*. Failing valid publication by the *Contractor* within 3 *Working Days* following the issuance of the certificate, the *Owner* shall be at liberty to publish the certificate and back-charge the *Contractor* for its reasonable costs for doing so.”

30.3 Delete paragraph 5.4.4 and replace it with the following:

“5.4.4 After publication of the certificate of the *Substantial Performance of the Work*, the *Contractor* shall submit an application for payment of the outstanding *Construction Act* holdback amount, which application for payment shall:

- .1 include all of the requirements listed in Schedule A to these Supplementary Conditions, as applicable to the application for payment of the holdback amount; and
- .2 include a statement that the *Contractor* has not received any written notices of lien or any claims for liens from any *Subcontractor* or *Supplier*.

After the receipt of a complete application for payment of the holdback amount from the *Contractor*, the *Consultant* will issue a certificate for payment of the holdback amount, provided that such amount is subject to and will only become due and payable in accordance with GC 5.4.5 and the *Construction Act*.”

30.4 Delete paragraph 5.4.5 and replace it with the following:

“5.4.5 The *Construction Act* holdback amount shall become due and payable the day immediately following the expiration of the holdback period prescribed by the *Construction Act*, subject to the occurrence of any of the following:

- .1 the preservation of a lien in respect of the *Project* that has not been satisfied, discharged or otherwise provided for in accordance with the *Construction Act*;

- .2 receipt by the *Owner* of a written notice of lien that has not been satisfied, discharged or otherwise provided for in accordance with the *Construction Act*; or
- .3 prior to the expiry of 40 calendar days following the publication of the certificate of *Substantial Performance of the Work*, the *Owner* publishes a *Notice of Non-Payment* of holdback in accordance with the *Construction Act*, setting out the amount of holdback that will not be paid, which may include non-payment to secure the correction of deficiencies and/or the completion of the *Work*.”

30.5 Add new paragraph 5.4.6 as follows:

“5.4.6.1 This GC 5.4.6 applies to contracts where the *Work* extends beyond twelve (12) months from the date the *Contractor* first supplied services or materials under the *Contract*, subject to the following transition rule:

- .1 For contracts entered into before 1 January 2026: The first annual holdback release shall occur on the second anniversary of the *Contract* date that follows 1 January 2026, and annually thereafter on each subsequent anniversary of the *Contract* date until *Substantial Performance* is achieved. For greater certainty, the first annual holdback release for such contracts shall include all holdback accrued from the commencement of the *Contract* to that date, in accordance with subsection 87.4(4) of the *Construction Act*.
- .2 For contracts signed on or after 1 January 2026: The first annual holdback release shall occur on the first anniversary of the *Contract* date, and annually thereafter on each subsequent anniversary until *Substantial Performance* is achieved.

5.4.6.2 Within fourteen (14) days after each *Contract* anniversary triggering an annual holdback release under paragraph 5.4.6.1, the *Owner* shall publish a notice of annual release of holdback (Form 6) in accordance with subsection 26(3) of the *Construction Act*.

5.4.6.3 The annual holdback amount shall become due and payable:

- .1 no earlier than sixty (60) days after the *Owner's* publication of Form 6; and
- .2 no later than seventy-four (74) days after the *Owner's* publication of Form 6, subject to the exceptions in paragraph 5.4.6.4.

5.4.6.4 The *Owner* shall make payment of the annual holdback release unless a lien has been preserved or perfected in respect of the *Contract*, and:

- .1 where the lien attaches to the *Place of the Work*:
  - (a) the lien has not been discharged under clause 41(1)(a) of the *Construction Act*; and
  - (b) no order declaring that the lien has expired, discharging the lien, or vacating the registration of the claim for lien or the certificate of action has been registered under section 49 of the *Construction Act*; or
- .2 where the lien does not attach to the *Place of the Work*:
  - (a) the lien has not been satisfied;
  - (b) the lien has not been discharged under clause 41(1)(b) of the *Construction Act*; and
  - (c) no order declaring that the lien has expired or vacating the lien has been made.

5.4.6.5 To receive annual holdback release, the *Contractor* shall submit an application to the *Owner* that includes:

- .1 all requirements for a *Proper Invoice* as set out in Schedule A;
- .2 a written statement that the *Contractor* has not received written notices of lien or claims for lien from *Subcontractors* or *Suppliers* in respect of *Work* performed up to the anniversary date;

- .3 a Statutory Declaration in the form set out in Schedule B confirming payment of all accounts up to the anniversary date, except amounts properly retained as holdback or amounts in legitimate dispute; and
- .4 a current WSIB Clearance Certificate.

5.4.6.6 For clarity, annual holdback release does not affect:

- .1 lien preservation or perfection timelines under the *Construction Act*, which continue to run from *Substantial Performance* and completion in accordance with sections 31 and 32 of the *Construction Act*;
- .2 the finishing holdback retained under GC 5.4.5 and GC 5.5.6; or
- .3 warranty obligations under GC 12.3.

5.4.6.7 Where the *Contractor* is performing work under multiple separate contracts with the *Owner* concurrently (including under a roster or master services agreement arrangement), each contract constitutes a separate "improvement" for *Construction Act* purposes, and:

- .1 annual holdback obligations shall be calculated and managed separately for each contract;
- .2 holdback amounts, lien rights, and trust obligations are determined separately for each CCDC 4 contract based on its own contract date and anniversary dates; and
- .3 the *Owner* shall maintain separate holdback accounts for each contract.

30.6 Add new paragraph 5.4.7 as follows:

"5.4.7 Where *the Construction Act* allows for release of *Construction Act* holdback on subcontract work which is 100% complete prior to the release of holdback contemplated under GC 5.4.5, the *Contractor* may make application to the *Owner* and the *Consultant* by written request for a review by the *Consultant* to determine the date of completion of the subcontract and shall submit such supporting material as the *Consultant* may in its discretion require, including:

- .1 Description of the scope of *Work* included in the subcontract.
- .2 Declaration of Last Supply by the *Subcontractor* as prescribed in subsection 31(5) of the *Construction Act* (Form 7).
- .3 Certificate of Completion of Subcontract as prescribed in subsection 33(1) of the *Construction Act* (Form 10).
- .4 Workplace Safety & Insurance Board clearance certificate for the *Contractor*, the *Subcontractor* concerned, and any other *Subcontractors* and *Suppliers* who have provided any services to the *Subcontractor*.
- .5 Statutory declaration by an officer of the *Subcontractor* in the form CCDC Document 9B - 2018.
- .6 *Contractor's* written acknowledgement to the *Owner* that the requirements of the *Contract Documents* will not be altered by early release of the *Construction Act* holdback of the completed subcontracts.
- .7 Confirmation by the bonding company that it has been notified of the intent to claim early release of holdback and does not object.
- .8 Sufficient evidence to the *Owner's* reasonable satisfaction that, as of the date of the *Contractor's* application, no claims for lien have been preserved against the *Place of the Work* that have not been vacated by the posting of security, discharged, or otherwise addressed in accordance with GC 5.8 – CONSTRUCTION LIENS."

### 31. GC 5.5 FINAL PAYMENT

31.1 Delete GC 5.5 – FINAL PAYMENT in its entirety and replace it with the following:

“5.5.1 When *Ready-for-Takeover* has been achieved in accordance with GC 12.1 – READY-FOR-TAKEOVER and the *Contractor* considers the Work is complete, and after the *Contractor*, the *Owner*, and the *Consultant* have attended a *Pre-Invoice Submission Meeting* analogous to the requirement in GC 5.2.1, the *Contractor* may submit an application for final payment to the *Owner* and the *Consultant* and the *Contractor* shall:

- .1 include all of the requirements set out in GC 5.2.1, including without limitation those requirements listed in Schedule A to these Supplementary Conditions that are specific to an application for final payment;
- .2 ensure that all warranties, *Extended Warranties*, records, operation and maintenance manuals, data books, literature maintenance sheets, list of outstanding work and deficiency list, *Waste Management Report*, keys, Certificate of Clearance from WSIB, proof of publication of the certificate of *Substantial Performance of the Work* and the *As-Built Record Drawings* are submitted to the *Consultant* (collectively, the “**Close-Out Documentation**”). Such submissions shall constitute requirements for the *Proper Invoice* for final payment; and
- .3 if applicable, (a) a certificate from the *Consultant* or written confirmation from the *Owner* that the deficiencies or incomplete *Work* waived by the *Owner* pursuant to GC 12.1.2 have been fully rectified as of the date of the *Contractor*’s application for final payment, and/or (b) written confirmation, signed by the *Owner* and the *Contractor*, that the *Contract Price* has been reduced by a specified amount in exchange for the *Owner* releasing the *Contractor* of its obligation to rectify the certain outstanding deficiencies and/or incomplete *Work* waived by the *Owner* pursuant to GC 12.1.2, as detailed in such written confirmation.”

5.5.2 After receipt by the *Owner* of an application for final payment submitted by the *Contractor* in accordance with paragraph 5.5.1:

- .1 the *Consultant* will either:
  - (a) issue to the *Owner* with a copy to the *Contractor*, a certificate for payment in the amount applied for in the *Proper Invoice*, or
  - (b) issue to the *Owner*, with a copy to the *Contractor*, a certificate for payment for an amount determined by the *Consultant* to be properly due to the *Contractor* after applying any credits, withheld amounts, or other set-offs which the *Consultant* has determined that the *Owner* is entitled to notwithstanding any notice of dispute or disagreement that the *Contractor* may have served, along with the *Consultant*’s reasons why an amount other than what is claimed in the *Proper Invoice* is properly due to the *Contractor*, which finding the *Owner* may accept or amend prior to the *Owner* issuing a *Notice of Non-Payment*, if any, in accordance with GC 5.3.2;
- .2 the *Owner* shall make payment to the *Contractor*, on account as provided in Article A-5,
  - (a) in the amount stated in the certificate for payment, or
  - (b) in the amount stated in the certificate for payment less such amount stated in the *Owner*’s *Notice of Non-Payment* issued pursuant to GC 5.3.2,

on the 28th calendar day after receipt of a *Proper Invoice*, unless such 28th calendar day lands on a day that is other than a *Working Day*, in which case payment shall be made on the next *Working Day* after such 28th day.”

5.5.3 In the event that the application for final payment delivered by the *Contractor* does not include the requirements of GC 5.5.1 (including the requirements for a *Proper Invoice*) or where the *Owner* disputes the amount claimed as payable in the *Proper Invoice*, then the *Owner* shall within 14 calendar days of receipt of the application for payment, issue a *Notice of Non-Payment*. Where the *Owner* has delivered a *Notice of Non-Payment*, as specified under this GC 5.5.3, the *Owner* and the *Contractor* shall first

engage in good faith negotiations to resolve the dispute. If within 10 calendar days following the issuance of a Notice of Non-Payment, the *Owner* and *Contractor* cannot resolve the dispute, either party may issue a notice of Adjudication in a form prescribed under the *Construction Act*. The *Owner* and *Contractor* will then submit the dispute to Adjudication as set out under PART 8 – DISPUTE RESOLUTION.

- 5.5.4 The amounts disputed and described under the Notice of Non-Payment shall be held by the *Owner* until all disputed portions of the Proper Invoice for final payment have been resolved in accordance with PART 8 – DISPUTE RESOLUTION. Any portion of the Proper Invoice which is not the subject of a Notice of Non-Payment shall be payable within the time period set out in paragraph 5.5.2.2.
- 5.5.5 Subject to the provision of paragraph 10.4.1 of GC 10.4 – WORKERS’ COMPENSATION, and any lien legislation applicable to the Place of the Work, the *Owner* shall make payment, to the *Contractor* in accordance with paragraph 5.5.2.2.
- 5.5.6 Notwithstanding anything else in this GC 5.5 – FINAL PAYMENT the *Owner* shall retain a finishing holdback as provided for in the *Construction Act*, which shall be released to the *Contractor* upon expiry of the lien period provided for under the *Construction Act*, provided no construction liens have been registered.
- 5.5.7 As additional requirements for release of finishing construction lien holdback, the *Contractor* shall submit the following documentation:
- .1 a written declaration that no claims for lien or written notices of lien have been received by it;
  - .2 a *Statutory Declaration* in the form set out in Schedule B that all accounts for labour, subcontracts, Products, construction machinery and equipment, and other indebtedness which may have been incurred by the *Contractor* and for which the *Owner* might in any way be held responsible have been paid in full up to the previous progress payment, except for amounts properly retained as a holdback or as an identified amount in dispute; and
  - .3 a Workplace Safety & Insurance Board Clearance Certificate.”

## **32. GC 5.8 WITHHOLDING OF PAYMENT**

- 32.1 Add new paragraph GC 5.8 WITHHOLDING OF PAYMENT as follows:

“GC 5.8 WITHHOLDING OF PAYMENT

- 5.8.1 Upon notice to the *Contractor*, the *Owner* may, subject to the *Owner’s* requirement to issue a Notice of Non-Payment under the *Construction Act*, withhold or retain all or any portion of any payment due to the *Contractor* under this *Contract* to ensure the performance of the *Work* or to protect the *Owner’s* rights in respect of the events set out in this paragraph 5.8.1, but only such portion of any payment as is reasonably necessary for such purpose. The *Owner* may make such withholding or retention upon the occurrence and continuance of any of the following events:
- .1 the *Contractor* is in default of any of its material obligations under this *Contract*;
  - .2 all or any part of such payment is attributable to *Work* which is defective or not performed in accordance with the *Contract Documents*;
  - .3 the *Contractor* has improperly failed to make prompt payments to its Subcontractors and Suppliers respecting *Work* for which the *Owner* has made payment to the *Contractor*; or
  - .4 the amounts described in section 17(3) of the *Construction Act*.”
- 5.8.2 In the event of deficiencies or delays in the *Work* that the *Contractor* fails or refuses to address upon receiving notice of same in accordance with the requirements of the *Contract*, the *Owner* may, without limiting the remedies available to it under this *Contract* and subject to the *Owner’s* requirement to issue a *Notice of Non-Payment* under the *Construction Act*, retain and set off as against any payments that would otherwise be owing to the *Contractor*, the reasonable costs of rectifying such deficiencies or delays as determined by the *Owner*.”

- 5.8.3 In addition to any rights the *Owner* has pursuant to the *Construction Act* and subject to the *Owner's* requirement to issue a *Notice of Non-Payment* under the *Construction Act*, if a lien is registered against the *Place of the Work* or served upon the *Owner*, or an action commenced against the *Owner*, by any *Subcontractor*, the *Owner* having made all payments currently due in accordance with the payment terms of the *Contract Documents*, the *Owner* shall have the right to withhold from any money otherwise due to the *Contractor*, the full amount claimed in the lien action plus an additional amount sufficient to satisfy all of the *Owner's* expenses relating to such lien action, including legal and consulting costs. These funds, less expenses incurred, shall be released to the *Contractor* upon the full discharge of all liens and dismissal of all actions against the *Owner*."

### **33. GC 5.9 CONSTRUCTION LIENS**

- 33.1 Add new GC 5.9 – CONSTRUCTION LIENS as follows:

#### **"GC 5.9 – CONSTRUCTION LIENS**

- 5.9.1 Notwithstanding anything else in this PART 5 – PAYMENT, in the event a claim for lien is registered against title to the *Place of the Work* by the *Contractor*, a *Subcontractor* or a *Supplier*, or served on the *Owner* with regard to the Project by a *Subcontractor* or a *Supplier*, or the *Owner* receives a written notice of or claim for lien from a *Subcontractor* or a *Supplier*, the *Owner* shall be entitled to withhold any payment otherwise due to the *Contractor* until such time as such claims have been dealt with as provided below.
- 5.9.2 In the event that a claim for lien or a written notice of a lien is received by the *Owner* in relation to the *Project*, the *Contractor* shall, within ten (10) calendar days, at its sole expense, arrange for the vacating or the discharge of the claim for lien and/or the withdrawal of the written notice of lien or have the lien vacated pursuant to the *Construction Act*. If the *Contractor* commences an application to the Court to have the lien vacated, the *Contractor* shall provide the *Owner* with copies of all court documents submitted by the *Contractor* and the Order issued by the Court. If the lien is only vacated, the *Contractor* shall, if requested, undertake the *Owner's* defence of any subsequent action commenced in the respect of the lien at the *Contractor's* expense.
- 5.9.3 If the *Contractor* fails or refuses to take such steps as required under paragraph 5.9.2, the *Owner* shall, at its option, be entitled to take all steps necessary to vacate and/or discharge the claim for lien or the withdrawal of the written notice of lien, and all costs incurred by the *Owner* in doing so (including, without limitation, legal fees on a full indemnity basis and any payment which may ultimately be made out of or pursuant to security posted to vacate the lien) shall be the responsibility of the *Contractor*, and the *Owner* may deduct such amounts from the amounts otherwise due or owing to the *Contractor*.
- 5.9.4 Without limiting any of the foregoing, the *Contractor* shall satisfy all judgments and pay all costs resulting from any liens or any actions brought by a *Subcontractor* or *Supplier* in connection with any liens, or in connection with any other claim or lawsuit brought against the *Owner* by any person that provided services or materials to the Project which constituted part of the *Work*, and the *Contractor* shall indemnify the *Owner* for any and all costs (including, without limitation, legal fees on a solicitor and client basis) the *Owner* may incur in connection with such claims or actions.
- 5.9.5 Section 20(1) of the *Construction Act* does not apply to this *Contract* and no general lien arises under or in respect of the *Work*, such that all liens shall arise and expire on a lot-by-lot basis."

### **34. GC 6.1 OWNER'S RIGHT TO MAKE CHANGES**

- 34.1 Amend paragraph 6.1.2 by adding the following to the end of that paragraph:

"This requirement is of the essence and it is the express intention of the parties that any claims by the *Contractor* for a change in the *Contract Price* and/or *Contract Time* shall not be approved unless there has been compliance with PART 6 – CHANGES IN THE WORK. No course of conduct or dealing between the parties, no express or implied acceptance of alterations or additions to the *Work* and no claims that the *Owner* has been unjustly enriched by an alteration or addition to the *Work*, whether in fact there is any such unjust enrichment or not, should be the basis for a claim for additional payment under this *Contract* or a claim for any extension of the *Contract Time*."

- 34.2 Add new paragraph 6.1.3 as follows:

“The *Contractor* agrees that changes resulting from construction coordination, including but not limited to site surface conditions, site coordination, and *Subcontractor* and *Supplier* coordination, are included in the *Contract Price* and shall not entitle the *Contractor* to claim an addition to the *Contract Price* in relation to coordination.”

### **35. GC 6.2 CHANGE ORDER**

35.1 Add new paragraph 6.2.3 as follows:

“The *Contractor* shall not be entitled to any additional compensation arising out of changes to the *Work* aside from the amounts determined and agreed to under this GC 6.2, or as provided in GC 6.3 – CHANGE DIRECTIVE. The *Contractor’s* fee for overhead and profit related to a *Change Order* or *Change Directive* shall be as set out in the *Contract Documents*.”

35.2 Add new paragraph 6.2.4 as follows:

“*Change Orders* are not valid and binding upon the *Owner* unless approved and executed in accordance with the *Owner’s* internal approval processes.”

### **36. GC 6.3 CHANGE DIRECTIVE**

36.1 Delete paragraph 6.3.6.3 in its entirety and replace it with the following:

“.3 The *Contractor’s* fee shall be as specified in paragraphs 6.2.3 and the *Contractor’s* fee for overhead and profit shall be as set out in the *Contract Documents*.”

36.2 Amend GC 6.3.7.10 by adding the following to the end of the paragraph:

“, provided that such amounts are not caused by negligent acts, omissions, or default of the *Contractor* or *Subcontractor*,”

36.3 Delete GC 6.3.7.17 in its entirety including all subparagraphs.

### **37. GC 6.4 CONCEALED OR UNKNOWN CONDITIONS**

37.1 Amend paragraph 6.4.4 by deleting the words “and GC 9.5 – MOULD” and substituting the words “GC 9.5 – MOULD and GC 9.6 – IMPACT ASSESSMENT.”

37.2 Add new paragraph 6.4.5 as follows:

“The *Contractor* acknowledges that it has received the *Impact Assessment Reports* for the *Project* that are described in the RFP documents and that it has considered the mitigation measures described in the *Impact Assessment Reports* in the *Contract Price*. If the *Impact Assessment Reports* are not completed prior to the closing of the RFP submission deadline, any adjustments required to the *Contract Price* shall be determined in accordance with GC 9.6.2.3. The *Impact Assessment Reports* are provided for information only and the *Owner* shall not be liable for any errors or omissions in the reports.”

37.3 Add new paragraph 6.4.6 as follows:

“The *Contractor* confirms that, prior to submitting its response to the RFP for the *Project*, it had the opportunity to carefully investigate the *Place of the Work* and applied to that investigation the degree of care and skill described in paragraph 3.12.1, given the amount of time provided between the issue of the RFP documents and the actual submission deadline for the RFP, the degree of access provided to the *Contractor* prior to submission of the response, and the sufficiency and completeness of the information provided by the *Owner*. The *Contractor* is not entitled to compensation or to an extension of the *Contract Time* for conditions which could reasonably have been ascertained by the *Contractor* by such careful investigation undertaken prior to the submission of its response.”

### **38. GC 6.5 DELAYS**

38.1 Delete paragraph 6.5.1 in its entirety and replace it with the following:

"If the *Contractor* is delayed in the performance of the *Work* by an act or omission of the *Owner* or the *Consultant* or anyone employed or engaged by the *Owner* or *Consultant* directly, contrary to the provisions of the *Contract Documents*, then the *Contract Time* shall be extended for such reasonable time as the *Consultant* recommends and the *Owner* approves. The *Contractor* shall be reimbursed by the *Owner* for its reasonable direct costs directly flowing from the delay but excluding any indirect, consequential, or special damages."

38.2 Delete paragraph 6.5.2 in its entirety and replace it with the following:

"If the *Contractor* is delayed in the performance of the *Work* by a stop work order issued by a court or other *Authority Having Jurisdiction* on account of a breach, violation, contravention, or a failure to abide by any laws, ordinances, rules, regulations, or codes or the advice, recommendations and instructions of public health officials directly by the *Owner*, the *Owner's Other Contractor(s)* or the *Consultant* and relating to the *Work* or the *Place of the Work* and providing that such order was not issued as the result of an act or fault of the *Contractor* or any person employed or engaged by the *Contractor* directly or indirectly, then the *Contract Time* shall be extended for such reasonable time as the *Consultant* may recommend in consultation with the *Contractor* and the *Owner* approves. The *Contractor* shall be reimbursed by the *Owner* for the reasonable direct costs directly flowing from the delay but excluding any indirect, consequential, or special damages."

38.3 Delete paragraph 6.5.3 in its entirety and replace it with the following:

"6.5.3.1 If the performance of the *Work* or the performance of any other obligation(s) of party to this *Contract* is delayed by *Force Majeure*, then the *Contract Time* shall be extended for such reasonable time as the *Owner* and the *Contractor* shall agree. The extension of time shall not be less than the time lost as a result of the event causing the delay, unless the *Contractor* and the *Owner* agree to a shorter extension. Neither party shall be entitled to payment for its costs incurred by such delays. Upon reaching agreement on the extension of the *Contract Time* attributable to the *Force Majeure* event, the *Owner* and the *Contractor* shall execute a *Change Order* indicating the length of the extension to the *Contract Time* and confirming that there are no costs payable by either party to the other for the extension of *Contract Time*.

6.5.3.2 Notwithstanding the foregoing, the *Owner* may issue a *Change Directive* requiring the *Contractor* to undertake those specific actions identified in the *Change Directive* as the *Contractor* can reasonably and safely initiate to remove or relieve either the *Force Majeure* or its direct or indirect effects on the *Project*, in which case the *Contract Price* will be adjusted in accordance with paragraph 6.3.7. If the *Contractor* fails within the time period specified in the *Change Directive* to take such action, then the *Owner* may, at its sole and absolute discretion and after it has given Notice in Writing to the *Contractor*, take some or all of such actions to partially or wholly remove or relieve such *Force Majeure* or its direct or indirect effects, and thereafter require the *Contractor* to resume the performance of the *Work*."

38.4 Delete paragraph 6.5.4 in its entirety and replace it with the following:

"No extension of the *Contract Time* will be approved unless the *Contractor* provides *Notice in Writing* to the *Owner* within 3 *Working Days* of the date upon which the *Contractor* ought reasonably to have been aware of the delay contemplated in paragraphs 6.5.1, 6.5.2 or 6.5.3. For the *Notice in Writing* to be valid under this paragraph 6.5.4 it must include specific details about:

- .1 the cause of the delay;
- .2 the likely impact the delay will have on the *Contract Time* and details of the extension of time being requested; and
- .3 mitigation efforts, if any, undertaken by the *Contractor* or, where no mitigation efforts have been undertaken by the *Contractor*, the reasons why mitigation is either not possible or has not been undertaken by the *Contractor*."

38.5 Add new paragraph 6.5.6 as follows:

"If the *Contractor* delays the performance of the *Work* and such delay is for a cause within the *Contractor's* control, the *Contractor* shall pay to the *Owner* the per diem rate for liquidated damages specified in Article 10 of the *Contract* for each day of delay if *Ready-for-Takeover* is not achieved in accordance with the time specified in Article A-1.3. If the per diem rate for liquidated damages is not specified in the *Contract Documents*, the *Contractor* shall pay to the *Owner* the *Administration Costs* incurred by the *Owner* as a result of the delay."

38.6 Add new paragraph 6.5.7 as follows:

"If the *Contractor* is delayed in the performance of the *Work* due to the replacement of a representative, worker, *Subcontractor* or *Supplier* pursuant to GC 3.5.4, 3.6.2 or 3.7.4, the *Contractor* shall pay to the *Owner* the per diem rate for liquidated damages specified in Article 10 of the *Contract* for each day of delay if *Ready-for-Takeover* is not achieved in accordance with the time specified in Article A-1.3. If the per diem rate for liquidated damages is not specified in the *Contract Documents*, the *Contractor* shall pay to the *Owner* the *Administration Costs* incurred by the *Owner* as a result of the delay.

**39. GC 7.1 OWNER'S RIGHT TO PERFORM THE WORK, TERMINATE THE CONTRACTOR'S RIGHT TO CONTINUE WITH THE WORK OR TERMINATE THE CONTRACT**

39.1 Amend paragraph 7.1.2 by adding the words "including failing or neglecting to comply with the requirements in GC 3.4 – CONSTRUCTION SCHEDULE..." immediately following the word "properly" in line one.

39.2 Amend paragraph 7.1.3.1 as follows:

Insert after the word "commences" the words "and is diligently proceeding with".

39.3 Revise paragraph 7.1.3.2 by substituting the words "an acceptable schedule" with "a schedule *Acceptable* to the *Owner*".

39.4 Amend paragraph 7.1.4.2 by adding to the end of the paragraph the words "and within 5 Working Days publish a notice of termination (form 8) in accordance with the *Construction Act*."

39.5 Amend paragraph 7.1.5.3 by substituting the words "the difference" at the end of paragraph 7.1.5.3 with the words "on the expiry of the warranty period specified in paragraph 12.3.1 for that portion of the *Work* performed by the *Contractor*, provided that such payment shall be made only in accordance with the requirements set out in GC 5.5 – FINAL PAYMENT and GC 5.8 – WITHHOLDING FROM PAYMENT".

39.6 Amend paragraph 7.1.5.4 by substituting the words "the difference" at the end of paragraph 7.1.5.4 with the words "for that portion of the *Work* performed by the *Contractor*, provided that such payment shall be made only in accordance with the requirements set out in GC 5.5 – FINAL PAYMENT and GC 5.8 – WITHHOLDING FROM PAYMENT".

39.7 Add new paragraph 7.1.7 as follows:

"The *Owner* may, if conditions arise which make it necessary for reasons other than as provided in paragraphs 7.1.1 and 7.1.4, suspend performance of the *Work* or terminate the *Contract* by giving *Notice in Writing* to that effect to the *Contractor* identifying the reason for the suspension and the expected length of the suspension. Such suspension or termination shall be effective in the manner specified in said notice and shall be without prejudice to any claims which either party may have against the other."

39.8 Add new paragraph 7.1.8 as follows:

"The *Contractor* upon receiving notice of suspension or termination from the *Owner* shall suspend all operations as soon as reasonably possible except work which, in the *Contractor's* opinion is necessary for the safety of personnel and for the care and preservation of the *Work*, the materials and plant. In the event of such suspension, the *Contractor* shall be reimbursed by the *Owner* for the reasonable costs incurred by the *Contractor* for such protection. Subject to any directions in the notice of suspension or termination, the *Contractor* shall discontinue ordering materials, facilities and supplies and make every reasonable effort to delay delivery of existing orders and, in the event of termination, to cancel existing orders on the best terms available."

39.9 Add new paragraph 7.1.9 as follows:

"During the period of suspension, the *Contractor* shall not remove from the *Place of the Work* any part of the *Work*, or any *Product* or materials without the consent of the *Owner*."

39.10 Add new paragraph 7.1.10 as follows:

“If the Work should be suspended for a period of 30 days or less, the *Contractor*, upon the expiration of the period of suspension, shall resume the performance of the *Work* in accordance with the *Contract Documents*. If the suspension was not due to an act or an omission of the *Contractor*, there shall be an equitable adjustment to the *Contract Time* and the *Contract Price* as agreed upon by the *Owner* and the *Contractor*.”

39.11 Add new paragraph 7.1.11 as follows:

“If, after 30 days from the date of notice of suspension of the *Work* the *Owner* and the *Contractor* agree to continue with and complete the *Work*, the *Contractor* shall resume operations and complete the *Work* in accordance with the terms and conditions agreed upon by the *Owner* and the *Contractor*.”

39.12 Add new paragraph 7.1.12 as follows:

“The *Owner* may terminate this *Contract* at any time for any or no reason. Such termination shall be effective upon the date specified in the *Owner’s Notice in Writing* advising of the termination of the *Contract* pursuant to this paragraph 7.1.12. In such event, the *Owner* shall pay for the actual and verifiable *Work* performed up to the effective date of termination, including demobilization costs, and for such additional costs, if any, directly flowing from and which are a reasonable consequence of the termination, but excluding any consequential, indirect or special damages, termination fees, penalties or levies, and any claims for loss of profit, lost deposits, or lost opportunity. The *Owner* shall not be liable to the *Contractor* for any other claims, costs or damages whatsoever arising from such termination of the *Contract*. Within 3 Working Days of termination by the *Owner*, the *Contractor* shall deliver a *Notice in Writing* to each of its *Subcontractors* and *Suppliers* confirming the effective date of the termination.”

#### **40. GC 7.2 CONTRACTOR’S RIGHT TO SUSPEND THE WORK OR TERMINATE THE CONTRACT**

40.1 Amend paragraph 7.2.1 by adding to the end of the paragraph the words “and within 5 *Working Days* publish a notice of termination (form 8) in accordance with the *Construction Act*.”

40.2 Amend paragraph 7.2.2, by:

(i) adding the following after the words “public authority” in the second line:

“on account of a breach, violation, contravention, or a failure to abide by any laws, ordinances, rules, regulations, or codes of *Authorities Having Jurisdiction*, directly by the *Owner*, the *Owner’s Other Contractor(s)* or the *Consultant* and relating to the *Work* or the *Place of the Work*,”; and,

(ii) adding the following to the end of the paragraph:

“unless an acceptable arrangement for an extension of the *Contract Time* is agreed to by the *Contractor* and the *Owner*.”

40.3 Delete paragraph 7.2.3.1 in its entirety and replace it with “Intentionally left blank”.

40.4 Delete paragraph 7.2.3.3 in its entirety and replace it with a new paragraph 7.2.3.3:

“.3 the *Owner* fails to pay the *Contractor* when due the amount certified by the *Consultant* or awarded by arbitration or a Court, except where the *Owner* has a bona fide claim for set off or otherwise under GC 5.8 – WITHHOLDING FROM PAYMENT; or”

40.5 Amend paragraph 7.2.3.4 by deleting all the words after “degree” and replacing them with “and the *Contractor* confirms by a detailed *Notice in Writing* to the *Owner* that sufficient cause exists. Such detailed written statement must contain particulars, including references to the *Contract Documents*, and supporting documentation demonstrating the alleged default by the *Owner*.”

40.6 Amend paragraph 7.2.4 by adding to the end of the paragraph the words “and within 5 Working Days publish a notice of termination (form 8) in accordance with the *Construction Act*.”

40.7 Delete 7.2.5 in its entirety and replace it with the following:

"If the *Contractor* terminates the *Contract* under the conditions described in this GC 7.2, the *Contractor* shall be entitled to be paid for all Work performed to the date of termination. The *Contractor* shall also be entitled to recover the costs associated with termination, including the costs of demobilization, losses sustained on Products and construction machinery and equipment. The *Contractor* shall not be entitled to any recovery for any indirect, special or consequential losses."

#### **41. GC 8.2 ADJUDICATION**

41.1 Delete GC 8.2 – ADJUDICATION in its entirety, including all subparagraphs thereunder.

#### **42. GC 8.3 NEGOTIATION, MEDIATION, ARBITRATION AND ADJUDICATION**

42.1 Delete GC 8.3 – NEGOTIATION, MEDIATION, AND ARBITRATION, including all paragraphs thereunder and replace it with the following:

##### **"GC 8.3 – NEGOTIATION, MEDIATION, ARBITRATION AND ADJUDICATION**

"8.3.1 Save and except where the *Contractor* has given an undertaking, in accordance with the *Construction Act*, to refer a dispute to Adjudication, prior to delivering a notice of *Adjudication* in a form prescribed by the *Construction Act*, the parties agree to first address all *Disputes* in a tiered approach as follows:

- .1 A *Dispute* shall be referred to the *Owner's* project manager for the *Project* and a representative of the *Contractor* of the equivalent seniority or position for resolution within a period not to exceed thirty (30) days.
- .2 If unresolved, after following the process described in paragraph 8.3.1.1, the *Dispute* shall be referred to the *Owner's* Director or Vice President who is responsible for the *Project* and an employee of the *Contractor* of the equivalent seniority or position for resolution within a period not to exceed 30 days.
- .3 If unresolved after following the process described in paragraph 8.3.1.2, and only at the election of the *Owner*, the *Dispute* shall be referred to the CEO of the *Owner* and the most senior executive employee of the *Contractor* for resolution within a period not to exceed 30 days. If the *Owner* does not elect, at its sole option, to proceed under this paragraph 8.3.1.3, the *Dispute* may proceed to under either step as described in paragraphs 8.3.2 or 8.3.3.

8.3.2 If the *Dispute* remains unresolved despite the parties' attempting to resolve it following the process in paragraph 8.3.1, a party may elect to proceed with the *Dispute* by way of an *Adjudication*. If a party elects to proceed by way of an *Adjudication*, the other party shall not be bound to proceed by way of an *Adjudication*, save and except where the parties are obliged under the *Construction Act*. The following procedures shall apply to any *Adjudications* the parties engage in under the *Construction Act*:

- .1 any hearings shall be held in the offices of the *Owner*, or, if such offices are unavailable, another venue as the parties may agree and which is acceptable to the adjudicator;
- .2 the *Adjudication* shall be conducted in English;
- .3 each party may be represented by counsel throughout an *Adjudication*;
- .4 there shall not be any oral communications with respect to issues in dispute that are the subject of an *Adjudication* between a party and the adjudicator unless it is made in the presence of both parties or their legal representatives; and
- .5 a copy of all written communications between the adjudicator and a party shall be given to the other party at the same time.

8.3.3 Any documents or information disclosed by the parties during an *Adjudication* are confidential and the parties shall not use such documents or information for any purpose other than the *Adjudication* in which they are disclosed and shall not disclose such documents and information to any third party, unless otherwise required by law, save and except the adjudicator.

- 8.3.4 In respect of any claim or dispute, if the *Contractor* fails to comply with any of the notice requirements set out in the *Contract Documents* then the *Contractor* shall be barred from advancing such claim(s) or dispute(s) and shall have no entitlement whatsoever in respect of such claim(s) or dispute(s) (including to an increase in payment under the *Contract*, or an extension of *Contract Time*) and by failing to comply with the notice requirements waives the right to make any such claim(s) or dispute(s) in an *Adjudication* or in any other form of dispute resolution available under this *Contract* or at law. This GC 8.3.4 shall operate conclusively as an estoppel and bar in the event such claims or disputes are brought in an *Adjudication* or other form of dispute resolution and the *Owner* may rely on this GC 8.3.4 as a complete defence to any such claims or disputes.
- 8.3.5 The parties hereby acknowledge and agree:
- .1 that counterclaims, claims of set-off or the exercise or use of other contractual rights that permit the *Owner* to withhold, deduct or retain from monies otherwise owed to the *Contractor* under the *Contract* may be referred to, and included as part of, *Adjudications* under the *Construction Act*;
  - .2 that disputes related to the termination or abandonment of the *Contract*, as well as any disputes that arise or are advanced following the termination or abandonment of the *Contract*, shall not be referred to *Adjudication* under the *Construction Act*;
  - .3 that notice(s) of *Adjudication*, with respect to any dispute or claim relating to the *Project*, shall not be given, and no *Adjudication* shall be commenced following *Ready-for-Takeover*, abandonment, or termination of the *Contract*;
  - .4 that any *Adjudication* between the *Contractor* and a *Subcontractor* or a *Supplier* that relates to an *Adjudication* between the *Owner* and the *Contractor* shall be joined together to be adjudicated by a single adjudicator, provided that the adjudicator agrees to do so, and the *Contractor* shall include a provision in each of its subcontracts that contain an equivalent obligation to this GC 8.3.5.4; and
  - .5 that, other than where the *Contractor* is obliged to commence an *Adjudication* pursuant to an undertaking under the *Construction Act*, neither the *Owner* nor the *Contractor* shall commence an *Adjudication* during the *Restricted Period (Adjudication)*.
- 8.3.6 If the *Dispute* remains unresolved despite the parties attempting to resolve it following the process in paragraph 8.3.1 or, following a determination of the *Dispute* pursuant to an *Adjudication* under paragraph 8.3.2, a party may elect to proceed with the *Dispute* under a mediation model to be agreed upon by the parties. A party shall elect to proceed to mediation no later than: (i) 10 days following the expiry of the timeline set out in paragraphs 8.3.1.2 or 8.3.1.3, whichever is the later, or (ii) 10 days following the rendering of the adjudicator's determination following an *Adjudication*. Where a party elects to proceed with mediation within the timelines prescribed in this paragraph 8.3.6, the other party shall be bound to proceed to mediation. No later than 10 days after a party makes an election to proceed to mediation, or such longer period as may be mutually agreed between the parties, the parties shall enter into a mediation agreement which shall set out the mediation process and designate the mediator.
- 8.3.7 If neither party elects to proceed to mediation within the timelines outlined in paragraph 8.3.5 or 8.3.6, or the parties are unable to enter into a mediation agreement within the time limits, the matter shall proceed and be finally resolved by binding arbitration by a single arbitrator in accordance with the *Arbitration Act* by an arbitration agreement to be executed by the parties and the arbitrator. The parties shall mutually agree on the selection of the arbitrator, failing which the arbitrator shall be appointed in accordance with the *Arbitration Act*. The arbitration proceedings shall take place in Toronto, Ontario, Canada. The language of the arbitration shall be English. The parties agree that any arbitration award, including with respect to costs, shall be binding on the parties, may be enforced in any court of competent jurisdiction and shall be final and no appeals or judicial reviews shall be permitted as of right or by application to any court of competent jurisdiction, except on errors of law. The parties shall each bear their own costs and their proportionate share of any joint costs of arbitration, subject to any award of an arbitrator.
- 8.3.8 The timelines in GC 8.3 may be amended by mutual agreement of the parties.”

#### **43. GC 8.4 RETENTION OF RIGHTS**

43.1 Amend paragraph 8.4.2 by replacing “paragraph 8.3.6” with “paragraph 8.3.7”.

43.2 Add new paragraph 8.4.3 as follows:

“8.4.3 If the *Owner* gives the notice in writing described in paragraph 8.3.7 to have a dispute resolved by arbitration, the *Contractor* agrees that this paragraph 8.4.3 shall be construed as a formal consent to the stay of any lien proceedings until an award is rendered in the arbitration or such dispute as otherwise resolved between the parties. In no event shall the *Contractor* be deprived of its right to enforce its lien against the *Project* should the *Owner* fail to satisfy any arbitral award against it in full on the dispute in respect of which the lien proceedings were commenced. Provided nothing in this paragraph 8.4.3 shall prevent the *Contractor* from taking the steps required by the *Construction Act* to preserve and/or perfect a lien to which it may be entitled.”

#### **44. GC 9.1 PROTECTION OF WORK AND PROPERTY**

Amend paragraph 9.1.1.1 by adding the following words at the end of that paragraph:

“...which the *Contractor* could not reasonably have discovered applying the degree of care and skill described in paragraph 3.4.1 to its review of the *Contract Documents*.”

44.1 Delete paragraph 9.1.2 in its entirety and replace it with the following new paragraph 9.1.2:

“Before commencing any work, the *Contractor* shall determine the locations of all underground utilities and structures indicated in the *Contract Documents* or that are discoverable by applying to an inspection of the *Place of Work* the degree of care and skill described in paragraph 3.12.1.”

44.2 Add new paragraph 9.1.5 as follows:

“The *Contractor* shall neither undertake to repair and/or replace any damage whatsoever to the work of *Other Contractors*, or to adjoining property, nor acknowledge the same was caused or occasioned by the *Contractor*, without first consulting the *Owner* and receiving written instructions as to the course of action to be followed from either the *Owner* or the *Consultant*. However, where there is danger to life or public safety, the *Contractor* shall take such emergency action as it deems necessary to remove the danger.”

#### **45. GC 9.2 TOXIC AND HAZARDOUS SUBSTANCES**

45.1 Add new paragraph 9.2.10 as follows:

“The *Contractor* shall indemnify and hold harmless the *Owner*, the *Consultant*, their agents and employees from and against claims, demands, losses, costs, damages, actions, suits or proceedings arising out of or resulting from exposure to, or the presence of, toxic or hazardous substances or materials which were either brought on to the *Place of the Work* by the *Contractor*, or anyone for whom the *Contractor* is in law responsible, and mishandled or handled negligently or improperly or which are otherwise mishandled or handled negligently or improperly by the *Contractor*, or anyone for whom the *Contractor* is in law responsible, thereby creating exposure to toxic or hazardous substances or materials. This obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity set out in GC 13.1 – INDEMNIFICATION or elsewhere in the *Contract* or which otherwise exist respecting a person or party described in this paragraph.”

#### **46. GC 9.4 CONSTRUCTION SAFETY**

46.1 Delete paragraph 9.4.1 in its entirety and replace it with the following:

“9.4.1 The *Contractor* shall be solely responsible for construction safety at the *Place of the Work* and for compliance with the rules, regulations and practices required by the applicable construction health and safety legislation and shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the performance of the *Work*. Without limiting the generality of the foregoing, the *Contractor* shall comply with the occupational health and safety laws and regulations and any orders, recommendations and restrictions made by the federal, provincial or municipal governments and the advice, recommendations and instructions of public health officials, as they apply to the *Place of*

*the Work*. If the *Place of the Work* is located on the *Owner's* premises, the *Contractor* shall comply with all the *Owner's* policies and directions to ensure the health and safety of the *Owner's* employees and *Other Contractors* as well as the *Contractor's* employees, *Subcontractors* and *Suppliers*. The *Contractor* shall submit its Health and Safety Plan to the *Owner* and the *Consultant* for *Acceptance* prior to commencing the *Work*, which Plan shall include all the elements required by the *Specifications* for a Health and Safety Plan. The *Contractor* shall indemnify and hold harmless the *Owner* for any fines, penalties or other costs imposed or assessed on or incurred by the *Owner* arising from the *Contractor's* failure to comply with the applicable health and safety laws, any orders, recommendations and restrictions of the federal, provincial or municipal governments or the advice, recommendations and instructions of public health officials. ”

46.2 Amend GC 9.4.2 by adding the following words after “and the *Contractor*”:

“, *Subcontractors* and *Suppliers*”.

46.3 Amend GC 9.4.3 by adding the following words after “and the *Contractor*”:

“, *Subcontractors* and *Suppliers*”.

46.4 Delete paragraph 9.4.4 in its entirety and replace it with the following:

“9.4.4 Prior to the commencement of the *Work*, the *Contractor* shall submit to the *Owner*:

- .1 a current WSIB clearance certificate;
- .2 copies of the *Contractor's* insurance policies having application to the Project or certificates of insurance, at the option of the *Owner*;
- .3 documentation of the *Contractor's* in-house safety-related programs; and
- .4 a copy of the Notice of Project filed with the Ministry of Labour naming itself as “Constructor” under the *Occupational Health and Safety Act*.”

46.5 Delete paragraph 9.4.5 in its entirety and replace it with the following:

“The *Contractor* shall indemnify and save harmless the *Owner*, its agents, officers, directors, employees, consultants, successors and assigns from and against the consequences of any and all safety infractions committed by the *Contractor* under the *Occupational Health and Safety Act* and any breaches of the *Emergency Management and Civil Protection Act* and related orders, recommendations or regulations, including the payment of legal fees and disbursements on a full indemnity basis.”

46.6 Add new paragraph 9.4.6 as follows:

“9.4.6 The *Contractor* shall ensure that it and its employees, *Subcontractors* and *Suppliers* are aware of and, while being on the *Owner's* property, comply with the *Owner's* policies, including its Fit for Duty Policy, and with the Ontario Northland Operating Manual, including the Current Summary Bulletin, current Ontario Northland Time Table, C.R.O.R. 2022, Infrastructure Special Instructions, Dangerous Goods and Ontario Northland General Operating Instructions, as applicable.”

46.7 Add new paragraph 9.4.7 as follows:

“9.4.7 In the event of an emergency threatening health, life or property, the *Contractor* shall take such action as may be necessary to save lives and protect persons from injury and to protect and preserve the property. The *Contractor* shall notify the *Owner* of such emergency as promptly as is practical under the circumstances.”

## **47. GC 9.6 IMPACT ASSESSMENT**

47.1 Add new GC 9.6 – IMPACT ASSESSMENT as follows:

**“GC 9.6 IMPACT ASSESSMENT**

- 9.6.1 The *Contractor* shall be responsible for:
- .1 ensuring that any potential impacts and areas of concern identified in the *Contract Documents* or *Impact Assessment Reports*, if provided, are mitigated during the *Work*; and,
  - .2 identifying any previously unknown impacts relating to fish, navigable waters, species at risk, vegetation, wildlife, socio-economic and heritage that arise prior to commencing the *Work* and during the *Work*.
- 9.6.2 If the *Contractor* or *Owner* observes or reasonably suspects the presence of any impacts described in paragraph 9.6.1.2 that are not mentioned or accounted for in the *Contract Documents* or *Impact Assessment Reports*, if any, and related mitigation plans,
- .1 the observing party shall immediately report the circumstances to the other party;
  - .2 the *Contractor* shall immediately take reasonable steps, including stopping the *Work* if necessary, to ensure that any potential impacts are mitigated; and,
  - .3 if the *Owner* and *Contractor* do not agree on the existence, significance or mitigation measures for the impact, the *Owner* shall retain and pay for an independent qualified expert to investigate and determine the issue and the parties will enter into a *Change Order* if the mitigation measures will cause an increase or decrease in the *Contractor's* cost or time to perform the *Work*.
- 9.6.3 If the *Contractor* fails to comply with the requirements in paragraph 9.6.2, the *Contractor* shall:
- .1 be responsible for all costs incurred by the *Owner* or the *Contractor* to mitigate the damage caused due to the failure;
  - .2 not be entitled to request a *Change Order* relating to the failure to comply; and
  - .3 indemnify the *Owner* and hold it harmless from any claims, damages, costs, fines or other expenses, including reasonable legal fees and expenses, relating to or arising from the *Contractor's* failure to comply with paragraph 9.6.2.”

#### **48. GC 9.7 ENVIRONMENTAL PROTECTION FOR CONSTRUCTION IN AND AROUND WATERBODIES**

48.1 Add new GC 9.7 – ENVIRONMENTAL PROTECTION FOR CONSTRUCTION IN AND AROUND WATERBODIES as follows:

##### **“GC 9.7 ENVIRONMENTAL PROTECTION FOR CONSTRUCTION IN AND AROUND WATERBODIES**

- 9.7.1 The *Contractor* shall comply with the environmental protection requirements and mitigation measures that apply to construction involving work in and around waterbodies and on waterbody banks as set out in OPSS.PROV 182.
- 9.7.2 Pursuant to section 38(4) of the *Fisheries Act*, the *Contractor* has an obligation to notify the Department of Fisheries & Oceans (“DFO”) when the *Work* results in the unauthorized death of fish or a harmful alteration, disruption or destruction (“HADD”) of fish habitat or where there is imminent danger that the death of fish or HADD of fish habitat could occur. The notification shall be done using the form attached as Schedule D. The *Contractor* shall also notify the Consultant and the *Owner* of any such incidents. Failure to notify DFO of such incidents is a federal offence.
- 9.7.3 In accordance with the *Fisheries Act*, notification must be made without delay to DFO after the *Contractor* ensures the immediate health and safety risks are managed at the *Place of the Work*. Updates to DFO may be provided at a later time, if required.
- 9.7.4 All spills and sediment releases into a waterbody during the *Work* must be immediately reported by the *Contractor* to the *Consultant* and the *Owner* who must report the release to the Spills Action Centre (“SAC”) operated by the Ministry of Environment, Conservation and Parks (“MECP”) at 800-288-6060. If the *Consultant* or the *Owner* is not available, the *Contractor* shall report the incident to SAC. The *Contractor* shall take all reasonable measures to mitigate or remedy any adverse effects that result from the occurrence or might reasonably be expected to result from it.”

## **49. GC 9.8 ENVIRONMENTAL SPILLS AND RELEASES**

49.1 Add new GC 9.8 – ENVIRONMENTAL SPILLS AND RELEASES as follows:

### **“GC 9.8 ENVIRONMENTAL SPILLS AND RELEASES**

- 9.8.1 All spills and releases of hazardous substances in the course of the *Work* must be immediately reported by the *Contractor* to the *Consultant* and the *Owner* who will report the spill or release to the MOECP SAC. If the *Consultant* or the *Owner* is not available, the *Contractor* shall report the incident to the MOECP SAC and the ONTC RTC at 800-558-4129 or Ext. 141.
- 9.8.2 The *Contractor* shall take immediate steps to mitigate the damage to the environment and contain the spill or release. If the *Contractor* does not take timely action or, if the *Contractor* is not available, the *Consultant* or the *Owner* may direct others to remedy the situation.
- 9.8.3 If the spill or release was the fault of the *Contractor*, the remedial work shall be completed at the cost of the *Contractor* and with no additional cost to the *Owner* and the *Owner* shall be entitled to seek reimbursements for all costs associated with the remedial work including the cost of work done by third parties.
- 9.8.4 If the spill or release was not the fault of the *Contractor*, the *Owner* shall pay for the remedial work.

## **50. GC 10.1 TAXES AND DUTIES**

50.1 Amend paragraph 10.1.2 by adding the following sentence at the end of that paragraph:

“For greater certainty, the *Contractor* shall not be entitled to any mark up for overhead or profit on any increase in such taxes and duties and the *Owner* shall not be entitled to any credit relating to mark up for overhead or profit on any decrease in such taxes.”

50.2 Add new paragraph 10.1.3 as follows:

“Where an exemption or a recovery of sales taxes, customs duties, excise taxes or Value Added Taxes, rebates, or monies from incentive programs is applicable to the *Contract*, the *Contractor* shall, at the request of the *Owner*, assist, join in, or make application for any exemption, recovery or refund of all such taxes, duties, rebates and incentives and all amounts recovered or exemptions obtained shall be for the sole benefit of the *Owner*. The *Contractor* agrees to endorse over the *Owner* any cheques received from the federal or provincial governments, or any other *Authority Having Jurisdiction*, as may be required to give effect to this paragraph 10.1.3.”

50.3 Add new paragraph 10.1.4 as follows:

“The *Contractor* shall maintain accurate records tabulating equipment, material and component costs reflecting the taxes, customs duties, excise taxes and *Value Added Taxes* paid.”

50.4 Add new paragraph 10.1.5 as follows:

“Any refund of taxes, including without limitation, any government sales tax, customs duty, excise tax or *Value Added Taxes*, whether or not paid, which is found to be inapplicable or for which exemption may be obtained, is the sole and exclusive property of the *Owner*.”

50.5 Add new paragraph 10.1.6 as follows:

“The *Contractor* agrees to cooperate with the *Owner* and to obtain from all *Subcontractors* and *Suppliers* cooperation with the *Owner* in the application for any rebates, incentives or refund or exemption of any taxes, which cooperation shall include, but not be limited to, making or concurring in the making of an application for any such rebates, incentives, refund or exemption and providing to the *Owner* copies, or where required, originals of records, invoices, purchase orders and other documentation necessary to support such applications. All such rebates, incentives or refunds shall either be paid to the *Owner*, or shall be a credit to the *Owner* against the *Contract Price*, in the *Owner’s* discretion.”

50.6 Add new paragraph 10.1.7 as follows:

“Customs duties penalties, or any other penalty, fine or assessment levied against the *Contractor* shall not be treated as a tax or customs duty for purposes of this GC 10.1.”

## **51. GC 10.2 LAWS, NOTICES, PERMITS, AND FEES**

51.1 Delete paragraph 10.2.2 in its entirety and replace it with the following:

“The *Owner* has Crown immunity from the *Building Code Act* and the *Planning Act* and may not be obtaining building permits or development approvals. The *Owner* shall obtain and pay for any permanent easements over *Third Party Property* required for the completion of the Work. The *Contractor* shall be responsible for all other permissions for access to *Third Party Property*.”

51.2 Add to the end of paragraph 10.2.4. the following:

“Whenever standards of law, ordinances, rules, regulations, codes and orders relating to the *Work* differ, the most stringent standards shall govern.”

51.3 Amend paragraph 10.2.5 by adding the words, “Subject to paragraph 3.4.1” to the beginning of the paragraph

- and

add the following to the end of the second sentence:

“...and no further *Work* on the affected components of the *Contract* shall proceed until these changes to the *Contract Documents* have been obtained by the *Contractor* from the *Consultant*.”

51.4 Amend paragraph 10.2.6 by adding the following sentence at the end of that paragraph:

“In the event the *Owner* suffers loss or damage as a result of the *Contractor*’s failure to comply with paragraph 10.2.5, and notwithstanding any limitations described in paragraph 13.1.1, the *Contractor* agrees to indemnify and to hold harmless the *Owner* and the *Consultant* from and against any claims, demands, losses, costs, damages, actions, suits or proceedings resulting from such failure by the *Contractor*.”

51.5 Amend paragraph 10.2.7 by adding the words “which changes were not or could not have reasonably been known to the *Owner* or the *Contractor*, as applicable, at the time of deadline for submission of responses to the RFP and which changes did not arise as a result of a public emergency or other *Force Majeure* event” to the second line, after the words “authorities having jurisdiction”.

51.6 Add new paragraph 10.2.8 as follows:

“The *Contractor* shall furnish necessary certificates as evidence that the *Work* installed conforms with laws and regulations of authorities having jurisdiction, including certificates of compliance for *Owner*’s occupancy or partial occupancy. These certificates are to be final certificates giving complete clearance of the *Work*.”

## **52. GC 10.3 PATENT FEES**

52.1 Delete paragraph 10.3.2 in its entirety.

## **53. GC 10.4 WORKERS’ COMPENSATION**

53.1 Add new paragraph 10.4.2 as follows:

“10.4.2 The *Contractor* shall be solely responsible for its employees and officers and for its *Subcontractors* and their officers and employees, including ensuring that all required employer filings, contributions, deductions, and payments are made or remitted, as the case may be, with respect to applicable employer health taxes and under the *Employment Insurance Act*, the Canada Pension Plan, the Ontario *Workplace Safety and Insurance Act, 1997*, and all equivalent legislation in any other applicable jurisdiction. Without limiting the generality of the foregoing, the *Contractor* shall indemnify, defend and hold harmless the *Owner*, its directors, officers, and employees from all claims, demands, actions, suits or proceedings arising from any health, medical, disability or similar claims which *Contractor*’s employees or officers or any of its *Subcontractors* or their officers or employees may make against the

*Owner*, its directors, officers, or employees during or after the *Contract Time*, whether or not such claims are attributable to the *Contractor's* or *Subcontractor's* performance of the *Work* or related to the *Contractor's* obligations under this *Contract*."

#### **54. GC 11.1 INSURANCE**

54.1 Amend the title of GC 11 to add the words "CONTRACT SECURITY" at the end of the title.

54.2 Delete items .1 to .8 in paragraph 11.1.1 and in CCDC 41 and replace with the following:

"1. General Liability insurance shall be with limits of not less than \$10,000,000 per occurrence, an aggregate limit of not less than \$10,000,000 within any policy year with respect to completed operations, and a deductible not exceeding \$50,000. To achieve the desired limit, umbrella or excess liability insurance may be used. Subject to satisfactory proof of financial capability by the *Contractor*, the *Owner* may agree to increase the deductible amounts. The insurance coverage shall not be less than the insurance provided by IBC Form 2100 (including an extension for a standard provincial and territorial form of non-owned automobile liability policy) and IBC Form 2320 including but not limited to:

- .1 Bodily injury, death, and property damage including loss of use thereof.
- .2 Premises and operations liability.
- .3 Products and completed operations liability.
- .4 Blanket contractual liability.
- .5 Cross liability and severability of interest clauses.
- .6 Contingent employer's liability.
- .7 Personal injury liability.
- .8 *Owner's* and *Contractor's* protective coverage.
- .9 Broad form property damage.
- .10 Elevator and hoist liability.
- .11 Liability for attached machinery, including loading and unloading.
- .12 Extension of coverage shoring; blasting; excavation; underpinning; demolition; on work; below ground surface work, including tunneling and grading, if applicable to the Project.

The General Liability Insurance shall not include any exclusion relating to working in the vicinity of railway operations.

2. Automobile liability insurance in respect of vehicles that are required by law to be insured under a contract by a Motor Vehicle Liability Policy, shall have limits of not less than \$5,000,000 inclusive per occurrence for bodily injury, death, and damage to property, covering all vehicles owned or leased by the *Contractor*.
3. Manned Aircraft and watercraft liability insurance with respect to owned or non-owned aircraft and watercraft (if used directly or indirectly in the performance of the *Work*), including use of additional premises, shall have limits of not less than \$10,000,000 inclusive per occurrence for bodily injury, death and damage to property including loss of use thereof and limits of not less than \$10,000,000 for aircraft passenger hazard. Such insurance shall be in a form acceptable to the *Owner*.
4. Unmanned aerial vehicle liability insurance with respect to owned or non-owned aircraft (if used directly or indirectly in the performance of the *Work*), shall have limits of not less than \$5,000,000 per occurrence or accident for bodily injury, death and damage to property or such amounts as required by any applicable law or regulation.

5. Contractors' equipment insurance coverage written on an "all risks" basis covering *Construction Equipment* used by the *Contractor* for the performance of the *Work*, shall be in a form Acceptable to the *Owner* and shall not allow subrogation claims by the insurer against the *Owner*. Subject to satisfactory proof of financial capability by the *Contractor* for self-insurance, the *Owner* may agree to waive the equipment insurance requirement.
6. Professional Liability Insurance (if applicable). This policy shall cover risks of errors, omissions or negligent acts in the performance of professional services for the *Project*. The Named Insureds are to be approved and accepted for coverage by the Insurer. This policy shall provide for a limit of liability of not less than \$1,000,000 per claim and \$2,000,000 in the aggregate (inclusive of defence costs and expenses).
7. Technology Liability Insurance (if applicable) for financial loss arising out of an error, omission, or negligent act in the rendering of services in an amount not less than **\$5,000,000** per claim and **\$5,000,000** aggregate. Such policy shall be on a claims made basis and shall provide coverage for damages and defense costs. The Technology Professional Liability policy will also include an insuring agreement for cyber or network security and privacy liability insurance, covering financial loss arising out of actual or potential unauthorized access, unauthorized use, and a failure to protect confidential information which results in loss or misappropriation of such information in both electronic and non-electronic format. Such insurance will have a limit of an amount not less than \$5,000,000 per claim and \$5,000,000 aggregate. The *Contractor* shall maintain said liability coverage in place for a three-year period after termination of the *Contract* by way of annual policy renewal, or purchase of extended reporting period.
8. "All Risks" Builders Risk and Boiler & Machinery Insurance (if applicable) shall have limits of not less than the sum of 1.1 times *Contract Price*, plus any property, including design services, the *Owner* provides for incorporation into the *Work*. This policy shall cover all risks of direct physical loss or damage to the *Project*, including but not limited to the perils of earthquake and flood, subject to policy sub limits, warranties and exclusions and shall not be less than the insurance provided by IBC Forms 4042 and 4047 or their equivalent replacement. This insurance shall cover all property forming part of the *Project*, and goods and materials to be incorporated in the *Project* while at the *Place of the Work*, in transit, or while in off-site storage. It shall not provide coverage for the *Contractor's* or *Subcontractors'* equipment other than scaffolding, formwork, fences, shoring, hoarding, falsework, tarpaulins and temporary buildings in connection with the *Work*. The insurance shall not have a deductible greater than \$50,000.
9. Pollution Liability Insurance for an amount not less than \$5,000,000 per occurrence and in the aggregate and a deductible of not more than \$50,000. This policy shall be written on either an Occurrence or Claims Made Form and will provide coverage on a sudden and accidental, and gradual pollution events basis for on-site cleanup and remediation as well as on-site and off-site third party claims for bodily injury and property damage, cleanup and remediation."

## **55. GC 11.2 CONTRACT SECURITY**

55.1 Add new GC 11.2 – CONTRACT SECURITY as follows:

### **"GC 11.2 CONTRACT SECURITY**

- 11.2.1 If required by the RFP, the *Contractor* shall provide a performance bond and a labour and materials payment bond, each issued by a bonding company acceptable to *Owner* and licensed to issue such instruments in the *Place of the Work*, in the amounts and forms as follows:
  - .1 Amount of performance bond shall be equal to not less than 50% of the *Contract Price* in the form prescribed by the *Construction Act*.
  - .2 Amount of labour and material payment bond shall be equal to not less than 50% of the *Contract Price* in the form prescribed by the *Construction Act*.
- 11.2.2 The bonds provided in accordance with paragraph 11.2.1 shall guarantee the faithful performance of the *Contract* in accordance with the *Contract Documents*, including the requirements for warranties provided for the GC 12.3 – WARRANTY, and the payment of all obligations incurred in the event of the *Contractor's* default, including but not limited to the following:

- .1 the payment of legal, accounting, architectural, engineering, and *Consultant's* expenses incurred by the *Owner* in determining the extent of Work executed and any additional Work required as a result of the interruption of the Work, and its completion; and
  - .2 the payment of additional expenses to the *Owner* in the form of security guard services, light, heat, power, loss of use of premises, and other related costs, payable over the period between the default of the *Contract* and completion of the *Work*.
- 11.2.3 Without limiting the foregoing in any way, the bonds shall indemnify and hold harmless the *Owner* for and against costs and expenses (including legal and consultant services and court costs) arising out of or as a consequence of any default of the *Contractor* under this *Contract*.
- 11.2.4 The *Contractor* shall be responsible for notifying the surety company of any changes made to the *Contract Documents* or the *Contract Price* during the course of the *Work*.
- 11.2.5 The premiums for bonds required by the *Contract Documents* shall be included in the *Contract Price*.
- 11.2.6 Should the *Owner* require additional bonds by the *Contractor* or any of its *Subcontractors*, after the receipt of bids for the *Work*, the *Contract Price* shall be increased by the actual costs attributable to providing such bonds. The *Contractor* shall promptly provide the *Owner*, through the *Consultant*, with any such bonds that may be required.”

**56. GC 12.1 READY-FOR-TAKEOVER**

56.1 Delete GC 12.1.1 in its entirety and replace it with the following:

“12.1.1 *Ready-for-Takeover* shall be achieved when all of the following has occurred, as verified and *Accepted* by the *Owner*:

- .1 *Substantial Performance of the Work* has been achieved, as certified by the *Consultant*;
- .2 the appropriate permits (if any) for the *Place of the Work* have been obtained from the authorities having jurisdiction;
- .3 the *Work* to be performed under the *Contract* has satisfied the requirements for deemed completion in accordance with Section 2(3) of the *Construction Act*,
- .4 final cleaning and waste removal, as required by the *Contract Documents*;
- .5 the *Contractor* has delivered to the *Consultant* and the *Owner* all inspection certificates from authorities having jurisdiction with respect to any component of the *Work* which has been completed;
- .6 subject only to GC 12.1.2, the entire *Work* has been completed to the requirements of the *Contract Documents*, including completion of all items on the punch list prepared at the time of *Substantial Performance of the Work* and the *Work* is being used for its intended purpose, and is so certified by the *Consultant*;
- .7 subject only to GC 12.1.2, the *Contractor* has submitted to the *Owner* and the *Consultant* in a collated and organized matter, all *Close-Out Documentation* and any other materials or documentation required by the *Contract Documents*;
- .8 subject only to GC 12.1.2, all *Products*, systems and components of the *Project* have been commissioned and certified for operation and accepted by the *Owner* and *Consultant*, and
- .9 subject only to GC 12.1.2, the *Contractor* has submitted to the *Owner* and the *Consultant* full and complete *As-built Drawings* and *Specifications* revised by the *Contractor* to reflect the as-built state of the *Work*, clearly showing changes to the *Drawings* and *Specifications* from the original *Contract Documents*, all of which have been *Accepted* by the *Owner* acting reasonably.”

56.2 Delete GC 12.1.2 in its entirety and replace it with the following:

“12.1.2 The *Owner* may, in its sole, absolute, and unfettered discretion, waive compliance with a requirement, or a part thereof, for achieving *Ready-for-Takeover* set out in GC 12.1.1.6 to 12.1.1.9 (inclusive). Where the *Owner* exercises the discretion afforded under this GC 12.1.2, the *Contractor* shall be required to comply with GC 5.5.1.3 as part of its application for final payment and the *Owner* and the *Contractor*, in consultation with the *Consultant*, shall establish a reasonable date for completing the *Work*.”

56.3 Delete GC 12.1.3 in its entirety and replace it with the following:

“12.1.3 When the *Contractor* considers the *Work* has attained *Ready-for-Takeover*, it shall submit a written application to the *Owner* and the *Consultant* for review.”

56.4 In GC 12.1.4, delete the words “list and” from the second line.

56.5 Delete GC 12.1.5 in its entirety and replace it with the following:

“12.1.5 Following the confirmation of the date of *Ready-for-Takeover* by the *Consultant* and as confirmed by the *Owner*, the *Contractor* may submit a final application for payment in accordance with GC 5.5 – FINAL PAYMENT.”

56.6 Delete GC 12.1.6 in its entirety.

## **57. GC 12.2 EARLY OCCUPANCY BY THE OWNER**

57.1 Delete GC 12.2 – EARLY OCCUPANCY BY THE OWNER in its entirety.

## **58. GC 12.3 WARRANTY**

58.1 Amend paragraph 12.3.2 by adding the words, “Subject to paragraph 1.1.3....” at the beginning of that paragraph.

58.2 Delete paragraphs 12.3.4 and 12.3.5 and replace with the following paragraphs:

“12.3.4 The *Contractor* shall correct, at no additional cost to the *Owner*, defects or deficiencies in the *Work* that appear, prior to and during the *Warranty Period*. Any *Work* repaired or replaced during the *Warranty Period* shall be re-warranted for an additional 12 months from the date of completion of the repair or replacement. Notwithstanding the expiration of the *Warranty Period*, the *Contractor* shall not be relieved of its obligations to correct any defects or deficiencies in the *Work* of which *Notice in Writing* has been given to the *Contractor* prior to the expiration of the *Warranty Period*.

12.3.5 The *Owner* shall provide *Notice in Writing* to the *Contractor* of defects and deficiencies in the *Work* discovered during the *Warranty Period*. The *Contractor* shall submit a remediation plan for the permanent rectification of the defects and deficiencies within 2 *Working Days* after delivery of the *Notice in Writing*, including the schedule for the remediation work to be completed. Upon *Acceptance* by the *Owner* of the remediation plan, the *Contractor* shall remediate the defects and deficiencies in accordance with the schedule set out in the *Accepted* plan. *Acceptance* by the *Owner* of a remediation plan does not prohibit the *Owner* from pursuing other remedies it may have against the *Contractor* arising from the defects and deficiencies in the *Work*.

58.3 Amend paragraph 12.3.6 by adding at the end of the paragraph the following:

“The *Extended Warranty Period* for each *Extended Warranty* described in the *Specifications* shall commence on the expiry of the *Warranty Period* described in paragraph 12.3.1. The *Extended Warranties* shall be submitted to the *Owner* as part of the *Close-Out Documentation*.”

58.4 Add the following new paragraphs 12.3.7 to 12.3.12:

“12.3.7 The decision of the *Owner* shall be final as to the existence of such defects and deficiencies in the *Work*, the necessity of remedying same, and the remedial measures required.

12.3.8 If the *Contractor* fails to do the work to correct the defects or deficiencies, the *Owner* shall be entitled to carry out such work by its own forces or by *Other Contractors*. If such work is work which the *Contractor* should have carried out at the *Contractor*’s own expense, the *Owner* shall be entitled to recover from the

*Contractor* the cost thereof or may deduct the same from any monies due or that become due to the *Contractor*, including the warranty holdback, if any.

- 12.3.9 Any insurance, contract security, surety or deposit required by the *Contract Documents* shall remain in full effect at the expense of the *Contractor* during the *Warranty Period*.
- 12.3.10 The *Contractor* shall be responsible for the costs for inspection and testing for the correction of defects or deficiencies. The *Owner* shall have the right to deduct the cost of the inspection and testing from any monies owed to the *Contractor*.
- 12.3.11 The *Owner* may hold back, if set out in the *Contract Documents*, on each application for payment, advance payment or progress draw, 2.5% of the total amount payable under each such application for payment, advance payment or progress draw as security for the *Contractor's* performance of its warranty obligations. In the event the *Contractor* fails to correct a defect or deficiency during the warranty period within the required time and/or fails to pay for the redesign, reconstruction and other costs related to damages arising from a defect or deficiency, the *Owner* shall have the right to use the warranty holdback, or such part of it still being held by the *Owner* to pay for the costs of remedying the defect or deficiency and any redesign, reconstruction or other costs relating to the defect or deficiency. If the costs are greater than the amount of the warranty holdback, the *Contractor* shall pay the additional costs upon receipt of an invoice from the *Owner*. The *Contractor* shall have the right to invoice the *Owner* for the balance of the warranty holdback at the end of the *Warranty Period* or *Extended Warranty Period* as described in paragraph 12.3.4.
- 12.3.12 The *Contractor* shall assign to the *Owner* all warranties, guarantees or other obligations for *Work*, services or *Products* performed or supplied by any *Subcontractor*, *Supplier* or other person in connection with the *Work* and such assignment shall be with the consent of the assigning party where required by law or by the terms of that party's contract. Such assignment shall be in addition to, and shall in no way limit, the warranty rights of the *Owner* under the *Contract Documents*. Until the expiry of the relevant *Warranty Periods* enforceable against the *Contractor*, the *Owner* shall have in its custody all warranties, guarantees and other obligations to third parties respecting the *Work*.
- 12.3.13 The *Contractor's* obligations under this GC 12.3 shall continue notwithstanding any withholding of payment made by the *Owner* under GC 5.8 – WITHOLDING OF PAYMENT or by performance by the *Owner* directly or through other forces of the *Contractor's* obligations under this *Contract*, where the *Contractor* is in default in the performance of such obligations.”

## **59. GC 13.1 INDEMNIFICATION**

59.1 Delete GC 13.1 – INDEMNIFICATION in its entirety and replace it with the following:

- “13.1.1 The *Contractor* shall indemnify and hold harmless the *Owner* and its directors, officers, employees, contractors and agents (collectively the “*Owner's* Indemnitees”) from and against all loss, liability, damage, fines, cost, legal cost and disbursement whatsoever arising out of or related to the *Work* or the *Contract Documents* (“*Loss*”), by whomever made, sustained, incurred, brought or prosecuted, arising out of, or in connection with, anything done or omitted to be done by the *Contractor* in the course of the performance of the *Contractor's* obligations under the *Contract Documents* or otherwise in connection with the *Work*. The *Contractor* shall, at the *Owner's* election, either assume the defence of every proceeding brought in respect of such *Loss*, or cooperate with the *Owner* in the defence, including providing *Owner* with prompt Notice of any possible *Loss* and providing the *Owner* with all information and material relevant to the possible *Loss*.
- 13.1.2 GC 13.1 – INDEMNIFICATION shall govern over the provisions of paragraph 1.3.1 of GC 1.3 – RIGHTS AND REMEDIES.
- 13.1.3 The *Contractor* shall make full and complete compensation for any bodily injury or death to any person and for any damage caused to the *Owner's* or a third party's physical property by the *Contractor's* act or omission.
- 13.1.4 The *Contractor* shall be liable for any claims arising from any personal injuries to or death of any of the *Contractor's* employees, *Subcontractors* or *Suppliers* or from any loss of or damage to any property

belonging to the *Contractor* or its employees, *Subcontractors* or *Suppliers* during the performance of the *Work* unless caused by the negligent act or omission of *Owner*.

13.1.5 Notwithstanding any other provision of the *Contract Documents*:

- (a) The *Owner* shall not be responsible for indirect, consequential, special, incidental or contingent damages of any nature whatsoever, including loss or revenue or profit or damages resulting from interruption of service or transmission. This limitation shall apply regardless of the form of action, damage, claim, liability, cost, expense or loss, whether in contract (including fundamental breach), statute, tort (including negligence), or otherwise, and regardless of whether the *Owner* has been advised of the possibility of such damages; and,
- (b) Any express or implied reference to the *Owner* providing an indemnity or any other form of indebtedness or contingent liability that would directly or indirectly increase the indebtedness or contingent liabilities of the *Owner* or the Province of Ontario, whether at the time of execution of this Contract or at any time during the performance of the *Work* and the Warranty Period, shall be void and of no legal effect in accordance with s.28 of the Financial Administration Act, R.S.O. 1990, c. F.12.

13.1.6 The *Contractor* shall indemnify the *Owner* and the *Owner* Indemnitees and save them harmless from and against all Loss incurred by the *Owner* arising from:

- (a) any decision or interpretation by any court or *Authority Having Jurisdiction* that: (i) any of the *Contractor's* employees are an employee of the *Owner*; or (ii) the *Owner* is liable to pay statutory contributions or deductions in respect of any of the *Contractor's* employees under any laws, including employment insurance, provincial health insurance, income tax or other employment matters;
- (b) any health, medical disability or similar claims which the *Contractor* or *Contractor's* employees may have during or after the term of this *Contract*;
- (c) a claim by any third party against the *Owner* alleging that the *Submittals* and their use by the *Owner*, infringes any *Intellectual Property rights*;
- (d) safety infractions committed by the *Contractor* under the Occupational Health and Safety Act or any other laws, guidelines or public health orders regulating health and safety at the *Place of the Work*;
- (e) any claims against the *Owner* for the failure of the *Contractor* to protect the confidentiality of *Confidential Information*;
- (f) exposure to, or the presence of, toxic or hazardous substances or materials which were either brought on to the *Place of the Work* by the *Contractor* or the *Contractor* mishandled or handled negligently or improperly the substances or materials;
- (g) a claim from adjacent landowners or other third parties regarding damage to their property due to the *Work*; and
- (h) the release into the environment of materials resulting from the *Work* that contain *Environmental Contaminants* during the transportation of such materials from the *Place of the Work* to the approved waste disposal site.

## **60. GC 13.2 WAIVER OF CLAIMS**

60.1 Delete GC 13.2 – WAIVER OF CLAIMS in its entirety and replace it with the following:

“13.2.1 WAIVER OF CLAIMS BY OWNER

As of the date of the final certificate for payment, the *Owner* 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 GC 13.1 – INDEMNIFICATION or GC 12.3 – WARRANTY;
- .3 those arising from the provisions of paragraph 9.6.1 of GC 9.6 – IMPACT ASSESSMENTS and arising from the *Contractor* failing to comply with the mitigation plans in the *Impact Assessment Reports* or failing to assess impacts and implement mitigation plans for impacts that arise during the *Work*;
- .4 those arising from the provisions of paragraph 9.2.5 of GC 9.2 – TOXIC AND HAZARDOUS SUBSTANCES and 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*;
- .5 those arising from the provisions of paragraph 9.5.1 of GC 9.5 – MOULD and arising from the *Contractor* bringing or introducing mould to the *Place of the Work*; or
- .6 those made in writing within a period of 6 years from the date of *Substantial Performance of the Work*, as set out in the certificate of *Substantial Performance of the Work*, arising from the *Contractor's* performance of the *Contract* with respect to material defects or deficiencies in the *Work*.

### 13.2.2 WAIVER OF CLAIMS BY CONTRACTOR

As of the date of the final certificate for payment, the *Contractor* expressly waives and releases the *Owner* from all claims against the *Owner* including without limitation those that might arise from the negligence or breach of contract by the *Owner* 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 GC 9.2 – TOXIC AND HAZARDOUS SUBSTANCES, GC 9.5 – MOULD, or GC 10.3 – PATENT FEES.

13.2.3 GC 13.2 – WAIVER OF CLAIMS shall govern over the provisions of paragraph 1.3.1 of GC 1.3 – RIGHTS AND REMEDIES.”

## 61. PART 14 OTHER PROVISIONS

61.1 Add new PART 14 as follows:

### “PART 14 OTHER PROVISIONS

#### GC 14.1 OWNERSHIP OF MATERIALS

14.1.1 Unless otherwise specified, all materials existing at the *Place of the Work* at the time of execution of the *Contract* shall remain the property of the *Owner*. All work and *Products* delivered to the *Place of the Work* by the *Contractor* shall be the property of the *Owner*. The *Contractor* shall remove all surplus or rejected materials as its property when notified in writing to do so by the *Consultant*.

#### GC 14.2 CONTRACTOR DISCHARGE OF LIABILITIES

14.2.1 In addition to the obligations assumed by the *Contractor* pursuant to GC 3.6 – SUBCONTRACTORS AND SUPPLIERS, the *Contractor* agrees to discharge all liabilities incurred by it for labour, materials, services, *Subcontractors* and *Products*, used or reasonably required for use in the performance of the *Work*, except for amounts withheld by reason of legitimate dispute which have been identified to the party or parties, from whom payment has been withheld.

#### GC 14.3 DAILY REPORTS/DAILY LOGS

14.3.1 The *Contractor* shall cause its supervisor, or such competent person as it may delegate, to prepare a daily log or diary reporting on weather conditions, work force of the *Contractor*, *Subcontractors*, *Suppliers* and any other forces on site and also record the general nature of *Project* activities. Such log or diary shall also include any extraordinary or emergency events which may occur and also the identities of any persons who visit the *Place of the Work* who are not part of the day-to-day work force.

14.3.2 The *Contractor* shall also maintain records, either at its head office or at the *Place of the Work*, recording manpower and material resourcing on the *Project*, including records which document the activities of the *Contractor* in connection with GC 3.4 – CONSTRUCTION SCHEDULE, and comparing that resourcing to the resourcing anticipated when the most recent version of the schedule was prepared pursuant to GC 3.4 – CONSTRUCTION SCHEDULE.

#### **GC 14.4 CONFIDENTIAL INFORMATION**

14.4.1 The *Contractor* must not advertise or issue any information, publication, document or article (including photographs or film) for publication or media releases or other publicity relating to the *Work* or the *Owner's Confidential Information* without the prior written approval of the *Owner*.

14.4.2 The *Contractor* must not, and must ensure that the *Contractor's* personnel do not, without the prior written approval of ONTC:

- .1 use *Confidential Information* other than as necessary for the purposes of fulfilling the *Contractor's* obligations under this *Contract*; or
- .2 disclose the *Confidential Information*, other than to the *Contractor's* personnel who need the information to enable the *Contractor* to perform its obligations under this *Contract*, to the *Contractor's* legal advisors, accountants or auditors, or where disclosure is required by law (including disclosure to any stock exchange).

14.4.3 The *Contractor* must, within 10 *Working Days* (or any other period agreed in writing by ONTC) after a direction by the *Owner* to do so, return or destroy all *Confidential Information* in the *Contractor's* possession, custody or control.

14.4.4 If the *Owner* or the *Contractor* is required by law to disclose *Confidential Information*, it shall promptly notify the other party so that that party may intervene to prevent the disclosure.

14.4.5 The *Contractor* specifically acknowledges that *Owner* is subject to the *Freedom of Information and Protection of Privacy Act*, R.S.O. 1990, c. F. 4, and that the *Owner* may be compelled by law to disclose certain *Confidential Information*.

14.4.6 The rights and obligations under this Part continue after the termination of this *Contract*.

#### **GC 14.5 CORRUPTION, FORCED LABOUR, SANCTIONS**

14.5.1 The *Contractor* warrants that:

- .1 no bribe, gift or other inducement has been paid, promised or offered to any official or employee of the *Owner*, the Ministry of Transportation, the Government of Ontario or any other government official relating to the *Owner* entering into this *Contract* with the *Contractor*.
- .2 it will take reasonable steps to ensure that its officials and employees do not extort, accept or pay bribes or illicit payments, charge or accept fees that are not legally due or are in excess of those legally due, or unreasonably delay or obstruct the granting of permits, licences, or other such approvals in relation to the project. If the *Contractor* becomes aware of an actual or attempted bribe, extortion, delay or obstruction relating to this *Contract*, the *Contractor* shall report the incident to the *Owner* immediately.
- .3 it is unaware of any forced labour or child labour being used at any step of the production of goods produced, purchased or distributed by it in Canada or elsewhere or for the production of goods imported by the *Contractor*.
- .4 it has undertaken the appropriate due diligence to ensure its business and its supply chains do not use forced labour or child labour, including an assessment of its business and supply chains that may carry a risk of forced labour or child labour being used and the management of the risk. If applicable, the *Contractor* shall comply with the reporting

- 14.5.2 In compliance with its international obligations or with United Nations obligations, Canada imposes restrictions on trade, financial transactions or other dealings with a foreign country or its nationals. These sanctions may be implemented by regulation under such acts as the *United Nations Act*, the *Special Economic Measures Act (SEMA)*, or the *Export and Import Permits Act*. The text of any such regulations is published in the Canada Gazette, Part II. It is the only text which is authoritative. The *Contractor* shall comply with any such regulations that are in force on the effective date of the *Contract* and will require such compliance by its first-tier *Subcontractors*. The *Owner* relies on such undertaking from the *Contractor* to enter into this *Contract*, and any breach of such undertaking shall entitle the *Owner* to terminate this *Contract* for default and to recover damages from the *Contractor*, including excess re-procurement costs.

#### **GC 14.6 COMMUNICATIONS**

- 14.6 The *Owner* or the Government of Ontario will lead and make any announcements relating to this *Contract* and the *Work*. The *Contractor* shall not make any announcement of any kind, including press releases, social media posts, public declarations, or any form of publication or announcement, in relation to this *Contract* or the *Work* unless prior written consent is given by the *Owner*. Should the *Contractor* be contacted by any media outlet or other person or entity wishing to make any form of publication or announcement, or seeking any information, in relation to this *Contract* or the *Work*, the *Contractor* shall provide no comment and shall immediately notify the *Owner*. The *Contractor* shall immediately notify the *Owner* if it becomes aware of any publication or announcement relating to the *Contract* or the *Work*.

#### **GC 14.7 AUDIT**

- 14.7 The *Contractor* shall keep proper and accurate financial accounts and records, including but not limited to its contracts, invoices, statements, receipts, and vouchers in respect of the *Project* for a least six (6) years after the date that *Ready-for-Takeover* of the *Project* was achieved (the "*Audit Period*"). The *Owner* has the right to audit all such financial accounts and records associated with the *Project* and the *Contract Documents*, including *Submittals*, timesheets, reimbursable out of pocket expenses, materials, goods and *Construction Equipment* claimed by the *Contractor*, at all reasonable times during the term of the *Contract* and the *Audit Period* by providing *Notice in Writing* of its intention to conduct the audit. The *Contractor* shall provide full access to the records to the *Owner* for the purpose of the audit.

#### **GC 14.8 GENERAL**

- 14.8.1 Nothing contained in this *Contract* shall be deemed or construed by the parties nor by any third party as creating the relationship of principal and agent, landlord and tenant, or of partnership or of joint venture between the parties.
- 14.8.2 In addition to those provisions which are expressly stated to survive the termination or expiration of this *Contract*, the provisions of this *Contract* that are by their nature intended to survive termination or expiration of this *Contract* shall continue in full force and effect subsequent to and notwithstanding termination or expiration until or unless they are satisfied.
- 14.8.3 This *Contract* may be executed with electronic signatures or may be executed and delivered by electronic transmission and the parties may rely upon all such signatures as though they were original signatures. This *Contract* may be executed in counterpart and all such counterparts shall, for all purposes, constitute one agreement binding on the parties."

## Schedule “A” to the Supplementary Conditions

### Requirements for a “Proper Invoice”

To satisfy the requirements for a *Proper Invoice*, the *Contractor’s* application for payment must satisfy the following criteria:

- .1 is in the form of a written bill, invoice, application for payment, or request for payment;
- .2 is in writing;
- .3 contains the *Contractor’s* name, telephone number and mailing address and contact information of the *Contractor’s* project manager;
- .4 contains the title of the *Project* and the *Owner’s* contract number or purchase order number under which the work was performed and the related request for qualification, tender, or request for proposal number, as applicable;
- .5 contains the date the written bill, invoice, application for payment, or request for payment is being issued by the *Contractor*;
- .6 identifies the period of time in which the *Work*, labour, services, *Products* and/or materials were supplied to the *Owner*;
- .7 reference to the provisions of the *Contract* under which payment is being sought (e.g. progress payment / milestone, holdback, final payment, etc.);
- .8 a description, including quantities where appropriate, of the labour, services, *Products*, or materials, or a portion thereof, that were supplied and form the basis of the *Contractor’s* request for payment;
- .9 the amount the *Contractor* is requesting to be paid by the *Owner*, set out in a statement, based on the schedule of values Accepted under paragraph 5.2.5, separating out any statutory or other holdbacks, set-offs and HST;
- .10 with each application for payment after the first, a written statement that all accounts for labour, services, subcontracts, materials, equipment, *Products*, and other indebtedness which may have been incurred by the *Contractor* and for which the *Owner* might in any way be held responsible have been paid in full up to the previous application for payment, except for amounts properly retained as a holdback or as an identified amount in dispute;
- .11 with the applications for payment of holdback and for final payment, a *Statutory Declaration* in the form provided by the *Owner* attached as Schedule B stating that all accounts for labour, services, subcontracts, materials, equipment, *Products*, and other indebtedness which may have been incurred by the *Contractor* and for which the *Owner* might in any way be held responsible have been paid in full up to the previous application for payment, except for amounts properly retained as a holdback or as an identified amount in dispute;
- .12 a current Workplace Safety Insurance Board clearance certificate;
- .13 the progress report required under GC 3.4 CONSTRUCTION SCHEDULE, in the form provided by the *Owner* attached as Schedule C;
- .14 an updated Construction Schedule in native and .pdf formats;
- .15 if requested by the *Owner*, a current and valid certificate(s) of insurance for the insurance required under GC 11.1 – INSURANCE;
- .16 the following statement: “Provided this *Proper Invoice* complies with the requirements of the *Contract* and provided no *Notice of Non-Payment* is issued by the *Owner*, payment is due within 28 days from the date this *Proper Invoice* is received by the *Owner*.”;
- .17 the name, title, telephone number and mailing address of the person at the place of business of the *Contractor* to whom payment is to be directed;
- .18 in the case of the *Contractor’s* application for final payment;
  - (a) sufficient evidence that the *Contractor* has delivered all warranties to the *Owner*;

- (b) sufficient evidence that the *Place of the Work* has been left in a clean and tidy condition, including evidence that any remaining materials, tools, equipment, temporary work, and waste products and debris have been removed from the *Place of the Work*;
  - (c) landfill waybills for the disposal of the waste products, debris and excess soil removed from the *Place of Work* in accordance with the *Waste Management Plan*; and
  - (d) an executed, original, full and final release of all claims that may arise as a result of the *Work*, which full and final release executed by the *Contractor* shall be in a form approved by the *Owner*;
- .19 information identifying the authority, whether in the *Contract Documents* or otherwise, under which the services or materials were supplied;
- .20 any other information that is prescribed in Article A-3, if any, or identified by the *Owner* as required;
- .21 the amount invoiced to date;
- .22 the percentage of the *Contract Price* invoiced; and
- .23 the individual value of *Change Orders* approved during the invoice period and the cumulative value of *Change Orders* for the *Project*.

**Schedule "B" to the Supplementary Conditions**



Statutory Declaration of Progress Payment Distribution by *Contractor*

To be made by the *Contractor* **prior to payment**  
as a condition for release of holdback.

The last application for progress  
payment for which the Declarant has  
received payment is No. \_\_\_\_\_  
  
dated \_\_\_\_\_.

**Identification of *Contract* :**

Name of *Contract* (Location and description of the Work as it appears in the *Contract Documents*)

Date of *Contract* : Day : \_\_\_\_\_ Month : \_\_\_\_\_ Year : \_\_\_\_\_

**Name of *Owner* :** Ontario Northland Transportation Commission

**Name of *Contractor*:**

**Name of Declarant :** \_\_\_\_\_ **Position or Title :** (of office held with *Contractor*)

**Declaration**

I solemnly declare that, as of the date of this declaration, I am an authorized signing officer, partner or sole proprietor of the *Contractor* named in the *Contract* identified above, and as such have the authority to bind the *Contractor*, and have personal knowledge of the fact that all accounts for labour, subcontracts, products, services, and construction machinery and equipment which have been incurred directly by the *Contractor* in the performance of the work as required by the *Contract*, and for which the *Owner* might in any way be held responsible, have been paid in full as required by the *Contract* up to and including the latest progress payment received, as identified above, except for:

Holdback monies properly retained,

Payments deferred by agreement, or

Amounts withheld by reason of legitimate dispute which have been identified to the party or parties, from who payment has been withheld.

I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath.

Declared before me in \_\_\_\_\_

City/Town Province

on \_\_\_\_\_.

Date

\_\_\_\_\_

\_\_\_\_\_

Signature of Declarant

A Commissioner for Oaths or Notary Public

Schedule "C" to the Supplementary Conditions

Project Status Report	
Project Title:	
Reporting Period:	Date:
Project Details:	
Planned Budget: Indicate the original <i>Contract</i> value	Current Approved Budget: Indicate the original <i>Contract</i> value plus approved change orders
Planned Completion: Indicate the <i>Contract</i> schedule completion date	Current Project Completion: Fill in revised date if schedule extension approved through change order
Planned Project Percent Complete: How far should they have progressed by this date?	Project Percent Complete: What is their actual percent complete?
Executive Summary	
Provide a summary of what happened during the period, any concerns, risks or wins and plans for the upcoming period.	
Work Completed in the Period	
List	
List	
List	
List	
List	
Work Planned for Next Period	
List	
List	
List	
List	
Issues and Concerns	
Use this area to identify any concerns related to the project.	
Status of Progress	

Include a graph to show progress or eliminate this section.

**Schedule "D" to the Supplementary Conditions**

**DUTY TO NOTIFY/EMERGENCY WORKS NOTIFICATION FORM**

**ONTC DUTY TO NOTIFY / EMERGENCY WORKS NOTIFICATION FORM**

**SUBMISSION REQUIREMENTS**

Contact DFO By Phone 1-855-852-8320 **AND** submit this form to [fisheriesprotection@dfo-mpo.gc.ca](mailto:fisheriesprotection@dfo-mpo.gc.ca)

Submit this form to the consultant and the ONTC Project Manager: Esmail Zougari, [esmail.zougari@ontarionorthland.ca](mailto:esmail.zougari@ontarionorthland.ca) and to ONTC Legal : [legal@ontarionorthland.ca](mailto:legal@ontarionorthland.ca)

MNRF Office: Contact Area MNRF Office

**PART 1: NOTIFICATION DETAILS**

Type of Notification:     DUTY TO NOTIFY     EMERGENCY WORK

Date of Notification:	Time of Notification:
-----------------------	-----------------------

ONTC Contract #:	DFO PATH File # (if applicable):
------------------	----------------------------------

**PART 2: REPORTING INFORMATION**

Name of Person Reporting:	Name of Field Contact:
---------------------------	------------------------

Telephone #:	Telephone #:
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Email:	Email:
--------	--------

**PART 3: INCIDENT INFORMATION**

Bank failure     Culvert failure

Erosion and Sediment Control Measures Failure     Beaver dam breach

Other (specify):     Hwy shoulder failure

Date of Incident:	Time of Incident:
-------------------	-------------------

Location of Site:	Geographic Coordinates (Lat/Long):
-------------------	------------------------------------

Nearest Community (city/town):	Name of Waterbody(ies):
--------------------------------	-------------------------

	Type (watercourse, lake/pond, ditch):
--	---------------------------------------

Indicate if any of the following impacts have occurred or are about to occur:

Fish Kill (if yes, approximately how many):\_\_\_\_\_     Sediment deposition in channel

Bank failure     Obstruction of fish passage through:

Modification of flows     Channel     Culvert

Other (specify):

<p>Immediate Actions Taken:</p> <p>(Describe the activities/works that are being / have been immediately implemented. e.g. mitigation measures, damming / pumping etc.)</p>	
<p>Photos: <input type="checkbox"/> Attached</p> <p>(Where feasible, it is recommended that the photos be submitted with the form or as follow up)</p>	
<p><b>PART 4: EMERGENCY WORKS</b></p>	
<p>Description of Proposed Emergency Works:</p> <p>(Be as specific as possible. Describe what work will be undertaken within the next two weeks.</p> <p>E.g. culvert replacement (include existing and new culvert diameter / length / type), slope restoration (include material / method),:</p>	
<p>Mitigation measures:</p> <p>(Describe what measures have been or will be implemented to address the immediate issue. E.g. sediment fence, turbidity curtain, check dam, fish salvage etc.):</p>	
<p>Indicate which of the works will be followed (if applicable):</p> <p>Beaver Dam Removal    <input type="checkbox"/> Culvert Maintenance</p> <p>Bridge Maintenance    <input type="checkbox"/> Like-for-like culvert replacement</p> <p>Ditch maintenance within 30 m of a    <input type="checkbox"/> Temporary watercourse crossing waterbody</p> <p>Riparian vegetation maintenance in existing right-of-way</p>	
<p>The Emergency Works are (check one):</p> <p>Temporary (additional work will be required)    <input type="checkbox"/> Final (no additional work required)</p>	
Proposed Start Date: (YYYY/MM/DD)	Proposed End Date: (YYYY/MM/DD)
<p><b>PART 5: OTHER AGENCIES NOTIFIED</b></p>	
Other Agency(ies) Notified: Yes <input type="checkbox"/> No <input type="checkbox"/>	Agency(ies) Notified:
Date Notified:	Incident Report No. (if issued by notified Authority):

**END OF SUPPLEMENTARY CONDITIONS**

## APPENDIX B - RFP PARTICULARS

### A. THE DELIVERABLES

#### SUMMARY

The objective of this project is to replace the outdated and damaged drainage system, the paving of the main parking area, the rehab of the East platform interlock stone walkway, and to upgrade all lighting in the station parking lot as specified in the drawings.

Cochrane Station is situated at 200 Railway Street, Cochrane, Ontario, and is part of the ONTC facility.

Below is a General Description of the work scheduled for completion by **October 31, 2026.**

The tasks to be performed are outlined in the drawings attached to this RFP.

The Cochrane Station Operation brings together several key services to support both travelers and the local community. It includes Hotel Services that provide comfortable accommodations for guests, a Restaurant offering meals and refreshments, and integrated Bus and Train Services that connect passengers to destinations across the region. Together, these components ensure a smooth, convenient, and welcoming experience for anyone passing through or staying at the station.

For that reason, the contractor will need to limit interruptions to Cochrane Station Operations because the facility provides essential, continuous services to travelers and guests. Hotel Services rely on a quiet and safe environment for guests, the Restaurant must remain accessible for both customers and staff, and Bus and Train Services operate on fixed schedules that cannot be disrupted without affecting passenger travel, connections, and overall customer experience. Minimizing operational impacts ensures safety, maintains service quality, and supports the station's role as a key transportation and hospitality hub for the region.

#### HOURS OF OPERATION

Office hours are Monday to Friday 8:00 AM to 5:00 PM

Hotel Operation is 24 hours.

#### BUS SCHEDULE

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
7:30am	9:00am	7:30am	9:00am	7:30am	10:45pm	9:00am
9:00am	10:45pm	9:00am	10:45pm	9:00am		10:45pm
10:45pm	11:50pm	10:45pm	11:50pm	10:45pm		11:50pm

#### TRAIN SCHEDULE

Trains operate on Mondays, Tuesdays, Thursdays, and Fridays, departing Cochrane at 9:00 AM and arriving back in Cochrane at 10:00 PM.

## PROJECT LOCATION



200 Railway Street, Cochrane, Ontario, P0L 1C0

## GENERAL REQUIREMENTS AND PROJECT SCOPE

Note: The following list of items is to be used as a guideline only and may not include all the tasks to complete the work.

### GENERAL REQUIREMENTS

1. The Contractor will be required to coordinate all work with ONTC Project Manager and ONTC Operations to ensure minimal interruption to the day-to-day operations and the safety of ONTC customers.
2. The Contractor will be required to complete the work in accordance with all applicable federal, provincial, and municipal laws.
3. The Contractor shall coordinate Work with the owner's representative.
4. The Contractor will be required to obtain and pay for all necessary permits, fees, and ministry notifications required for the project including, but not limited to, the following:
  - a) Filing notice of project with the Ontario Ministry of Labour.
  - b) Registering as Constructor with the Ontario Ministry of Labour.
  - c) Obtaining all necessary building permits and inspections.
5. Building Permit will not be required for this work. All other permits required for the work are to be obtained by the contractor.
6. The Contractor shall provide qualified personnel to perform the work.
7. Construction activities should be conducted on weekdays between 7 am to 5 pm. Working outside these hours can be done but if only approved by ONTC Representative post submitting a request at least 3 days ahead of time to ONTC Representative for approval.

8. The Contractor will be required to secure their work area (create construction islands) for the duration of the project. The Contractor will be responsible for all activities inside this construction island, including health and safety. The Contractor shall coordinate their work with ONTC to ensure that disruption to work being done by ONTC employees in the area outside of the construction island is not interrupted.

Access by the Contractor will be restricted to the work area (Construction Island) only.

9. The Contractor will have access to the construction island, 24 hours per day, seven days per week. The Contractor will be required to coordinate their hours of work with ONTC and maintain a record of all persons accessing the site that at a minimum includes the name of the person, time-in, time-out and their site contact with the Contractor.
10. The Contractor shall establish a site-use plan acceptable to ONTC providing an organized, safe, and efficient means of personnel transport, material handling, storage/laydown areas, construction trailer locations, access points and methods of access, and limits of construction within the premises.
11. The Contractor shall make every reasonable effort to contain any dust or fumes so that adjacent work areas are not contaminated during the project.
12. The Contractor shall clean up and demobilize areas upon completion of the work.
13. The Contractor shall remove all demolished material from ONTC property and pay for all disposal fees, with the exception of excavated material.
14. The Contractor shall supply all necessary tools, machinery, and equipment to perform the work including, but not limited to, forklifts, mobile cranes, hoisting equipment, scaffolding, ladders, man lifts, temporary lighting, heating, welding machines, ventilation, consumables, and any other material or equipment required to complete the work. The Contractor shall provide all necessary vehicles and qualified personnel to transport people and materials.
15. Supply their own on-site facilities, including construction trailers, washrooms, and eating area.
16. Supply all personal protective equipment (PPE) and consumable supplies as required to meet all applicable legislation, ONTC policies and Contractor Policies. This includes but is not limited to the use of Autodesk throughout the project.
17. Note: Safety glasses with side shields, safety boots, hard hats, and high visibility clothing must be worn at all times on ONTC property. Any employees not wearing the required PPE will be immediately escorted off ONTC property.
18. Purchase and deliver to the site all Contractor supplied materials, equipment, facilities, and manpower necessary to accomplish the work within the schedule.
19. Designate a site supervisor who will be responsible for managing the project and be responsible for on-site safety, including all sub-contractors and suppliers. This site supervisor will be the single point of contact for the duration of the project. This site supervisor will be required to communicate with ONTC supervision to ensure the work is completed safely with minimal impact on the operation of the facility.
20. Any road closure request shall be submitted to the ONTC for approval 5 business days ahead of any closure.

21. The Contractor shall be aware of all high voltage equipment in the building and at the site. Understand the effect on light sources for work involving power outages and be responsible for temporary light sources required to complete their work safely.
22. Provide regular updates to ONTC project manager, including daily progress reports.
23. Any changes or deviation must be agreed to and approved by ONTC.
24. The Contractor shall appoint and pay for services of Testing Agents & Laboratories.
25. Coordinate required site inspections with ONTC Representative and EXP Services Inc. **who is acting as Consultant on the project.**

## **DELIVERABLES**

Deliverables are the documentation that the contractor is expected to provide during the various phases of the project. The list below is to be used as a guideline only. The contractor shall review the Technical Specification sections for further details and requirements.

### **Preconstruction Phase**

1. Notice of project.
2. Registration of Constructors Form 1000.
3. Site use plan (laydown area, parking to be used, temporary facilities).
4. Health and Safety project specific plan.
5. Construction Baseline Schedule. (Ensure plan includes minimal interruption to the bus, hotel, train operations).
6. Shop Drawings and Material cut sheets.
7. Project Risk Assessment Register.

### **Construction Phase**

1. Daily report with photos documenting progress and any issues.
2. Safety inspection report.
3. Monthly Progress Report.
4. Monthly Progress Schedule.
5. 3 Week Look Ahead Schedule (3WLA).
6. Project logs (risks, issues, NCRs, RFIs, Change orders, etc.).

### **Close-out Phase**

1. Proper disposal slips.
2. Project Records. (Certificates, Warranties, and other documentation)
3. Substantial completion form and certificate of publication.
4. As-builts.
5. O&M manuals.
6. Equipment list with recommended Spare part list.

## **SCHEDULE OF SERVICE**

The project is expected to commence as soon as possible post-award however, but not before **July 15, 2026.**

The Contractor shall develop an execution plan that would result in the work being completed no later than **October 31st, 2026.**

### **Ongoing Coordination and Communication**

Throughout all phases, proactive communication will be maintained with the Owner, station operators, tenants, and the public. Regular coordination meetings, construction notices, and signage will ensure that stakeholders are informed of upcoming work, access changes, and schedule milestones.

This phased execution approach allows the project to be delivered efficiently while maintaining safe, continuous access to critical transportation, hospitality, and freight services, ensuring minimal disruption to daily operations and the public.

## **PROJECT EXECUTION APPROACH**

The project execution strategy is based on a phased construction approach designed to maintain continuous and safe access to the station and its associated services throughout the duration of the work. Given the operational nature of the site - including train and bus transportation, hotel accommodations, restaurant operations, and freight services - it is critical that disruptions be minimized and access be carefully managed.

The work will be staged in logical, well-defined phases to ensure that essential functions remain operational at all times. Each phase will be coordinated closely with the Owner, station operations staff, tenants, and relevant authorities to maintain safety, accessibility, and service continuity.

### **Phase 1 – Pre-Construction and Enabling Works**

This phase will focus on site preparation and the implementation of temporary measures that allow operations to continue safely during construction. Key activities include:

- Establishment of construction zones, hoarding, and safety barriers.
- Implementation of temporary pedestrian walkways and accessible routes to maintain public access to trains, buses, hotel entrances, restaurants, and freight areas.
- Temporary traffic control and parking reconfiguration to maintain adequate parking availability.
- Coordination with station operators to confirm access requirements, delivery schedules, and emergency routes.

### **Phase 2 – Initial Parking Lot and Exterior Works**

Work will begin in areas that can be isolated with minimal operational impact. The parking lot will be divided into sections, allowing construction to proceed while keeping a portion of parking spaces available at all times.

- Construction activities will be staged to ensure continued access for transit users, hotel guests, and service vehicles.
- Priority parking and dedicated access routes for freight and operational vehicles will be maintained.
- Wayfinding signage will be installed to clearly direct pedestrians and vehicles through temporary circulation patterns.

### **Phase 3 – Building and Interface Zone Construction**

Construction affecting the building and its interfaces with the parking lot will be sequenced to maintain uninterrupted building access.

- Work near building entrances will be staged one entrance or zone at a time, ensuring that alternate entrances remain accessible.
- Hotel, restaurant, and public transit entrances will remain operational, with temporary access routes clearly marked and fully accessible.
- Noisy or disruptive activities will be scheduled during off-peak hours where possible to reduce impact on guests, passengers, and tenants.

### **Phase 4 – Final Parking Areas, Restoration, and Commissioning**

Once major building and exterior works are complete, remaining parking sections and final finishes will be addressed.

- Temporary access controls will be removed as permanent infrastructure is completed.
- Final pavement markings, landscaping, lighting, and signage will be installed.
- A coordinated commissioning process will confirm that all transportation, hospitality, restaurant, and freight functions are fully restored and operating as intended.

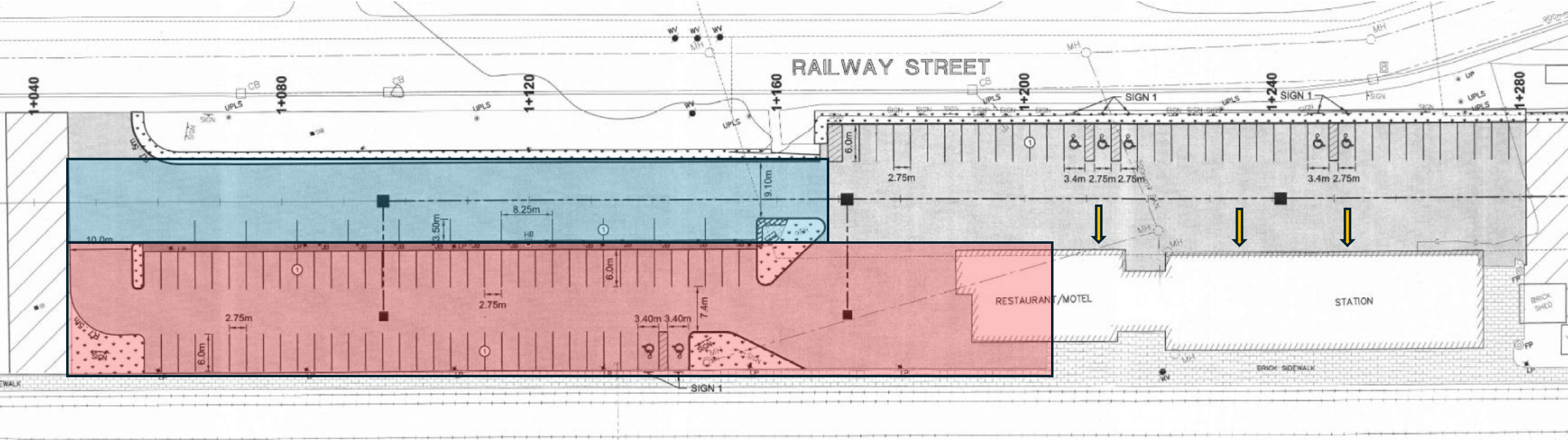
Please find below the details of Phased Approach:

# Cochrane Station Parking Lot Paving Project FY27

## Proposed Phased Work Areas



# Proposed Phase 1 Approach: Work Area and No Parking Zones



↓ CUSTOMER AND OPERATION ACCESS

NO PARKING FOR ACCESS ROUTE

WORK AREA

Proposed Phase 1 parking and path

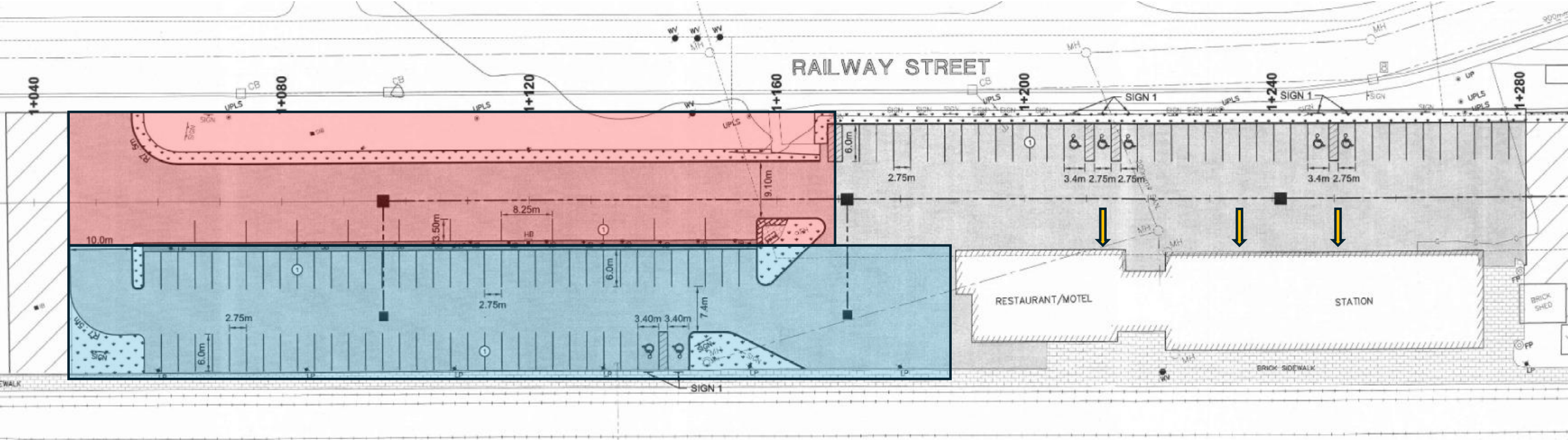


- ➔ Leave the site
- ➔ Enter the site

NO PARKING WORK ZONE

PARKING AREA

# Proposed Phase 2 Approach: Work Area and No Parking Zones



↓ CUSTOMER AND OPERATION ACCESS

NO PARKING

WORK AREA

Proposed Phase 2 parking and path

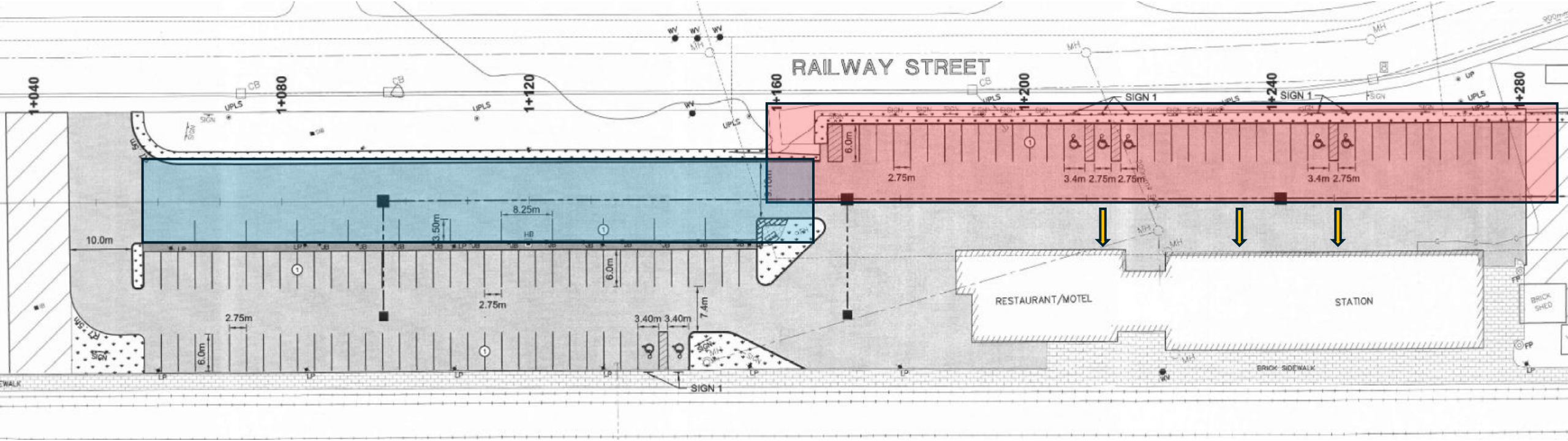


- ➡ Leave the site
- ➡ Enter the site

NO PARKING WORK ZONE

PARKING AREA

# Proposed Phase 3 Approach: Work Area and No Parking Zones



↓ CUSTOMER AND OPERATION ACCESS

NO PARKING

WORK AREA

Proposed Phase 2 parking and path



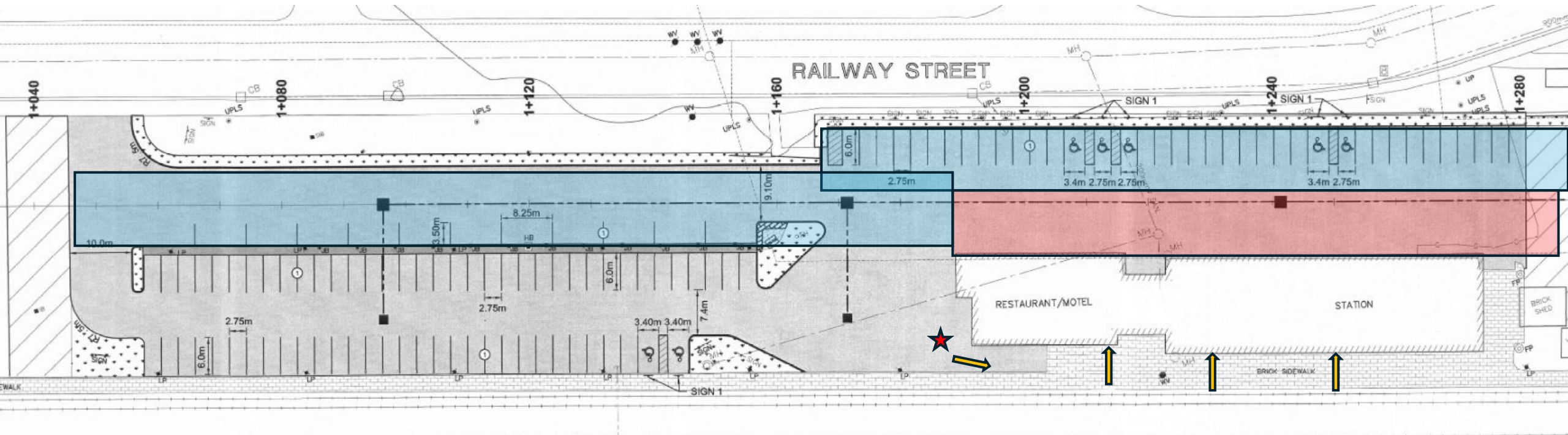
- ➡ Leave the site
- ➡ Enter the site

NO PARKING WORK ZONE

PARKING AREA

TEMP ACCESSIBLE PARKING

# Proposed Phase 4 Approach: Work Area and No Parking Zones

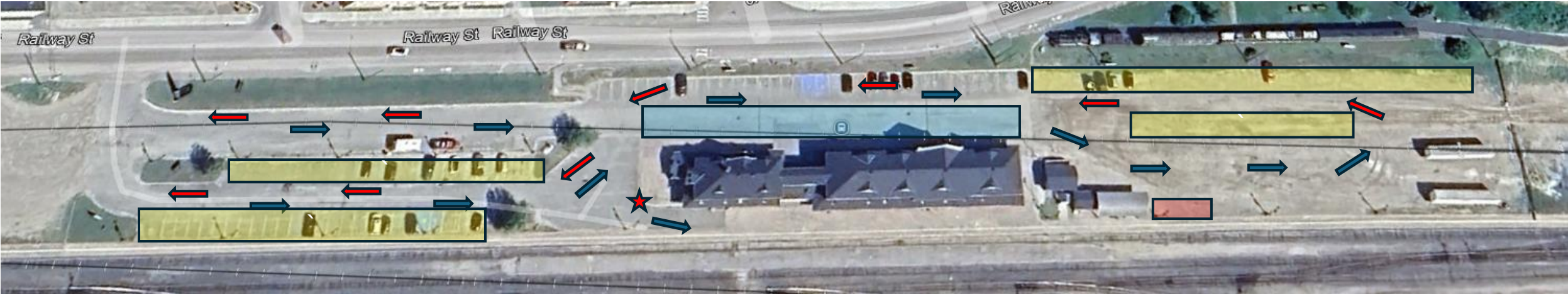


- ★ CUSTOMER, PBX AND OPERATION DROP OFF
- ↓ CUSTOMER AND OPERATION ACCESS

NO PARKING

WORK AREA

# Proposed Phase 2 parking and path



★ CUSTOMER, PBX AND OPERATION DROP OFF

➡ Leave the site

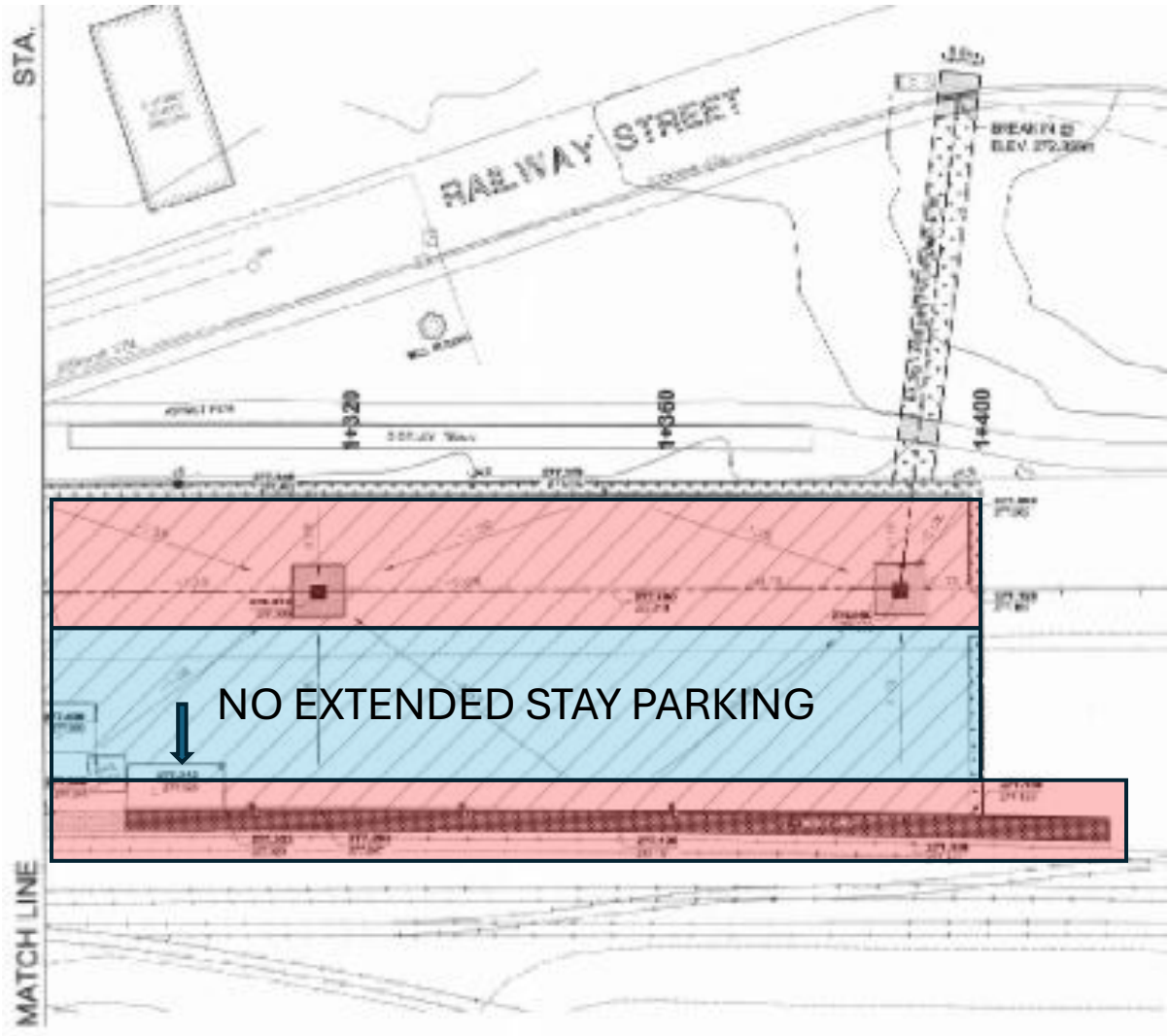
➡ Enter the site

NO PARKING WORK ZONE

PARKING AREA

TEMP ACCESSIBLE PARKING

Proposed Phase 5



NO EXTENDED STAY PARKING

↓ CUSTOMER AND OPERATION ACCESS

WORK AREA

Proposed Phase 5 parking and path



- Leave the site
- Enter the site

WORK AREA

PARKING AREA

## **B. MATERIAL DISCLOSURES**

### **1. Examination of Site**

Proponents are required to satisfy themselves as to existing conditions of the site and must take all site conditions into account in preparing their proposals.

### **2. Contractor Health and Safety**

The successful proponent must be familiar and comply with the Occupational Health and Safety Act (OHSA) and ONTC's Policies.

### **3. Liquidated Damages**

The per diem rate calculated in relation to Article A-10 of the Contract is \$500 for each calendar day of delay beyond the prescribed date for Substantial Performance of the Work until Substantial Performance of the Work is achieved and certified, pursuant to the terms of the Contract.

## **C. MANDATORY SUBMISSION REQUIREMENTS**

### **1. Submission Form (Appendix C)**

Each proposal must include a Submission Form (Appendix C) completed and signed by an authorized representative of the proponent.

### **2. Pricing**

Each proposal must include pricing information that complies with the instructions set out below in Section G of this Appendix B.

Please ensure that all pricing information is uploaded in the Pricing Proposal Envelope only.

### **3. Bid Security**

3.1 Proponents shall provide with their Proposal, Bid Performance Security in one of the following forms:

(a) Irrevocable stand-by Letter of Credit ("**LOC**"); or

(b) Bid bond

(the "**Bid Performance Security**").

The Bid Performance Security shall be:

(a) in the Proponent's own name;

(b) if a bid bond, issued by a surety licensed to conduct surety and insurance business in Ontario;

(c) in a form satisfactory to ONTC;

- (d) for a term of at least ninety (90) calendar days after the submission deadline; and
- (e) in the amount of ten percent (10%) of the total bid price excluding HST.

The Bid Performance Security is for the benefit of ONTC and will be retained by ONTC to compensate ONTC for the damages it will suffer if the successful proponent fails to provide the Contract Securities (defined in Section 3.2, below) and evidence of insurance and other documents required by this RFP or by the final agreement, or fails to execute the final agreement within the time required by the RFP documents.

The Bid Performance Security of the successful proponent will be returned after the successful proponent delivers to ONTC compliant Contract Securities and evidence of insurance and other documents required by this RFP or by the final agreement and the successful proponent has executed the final agreement, all within the time required by the RFP documents.

The Bid Performance Security of all other proponents shall be returned to the proponents upon the occurrence of the earlier of:

- (a) execution by both parties of the final agreement between ONTC and the successful proponent;
- (b) the expiry of the 90-day period following the submission deadline;
- (c) the cancellation of the RFP process without an award of the contract; or
- (d) the disqualification of all Proposals.

### 3.2 Agreement to Bond

The proponent shall provide with its proposal an agreement to bond issued by a surety company undertaking to provide a fifty percent (50%) Performance Bond and a fifty percent (50%) Labour and Material Bond (the “Contract Securities”) in the form prescribed by the *Construction Act*, both to be provided to ONTC by the Successful Proponent following award of the contract.

3.3 Proposals not accompanied by the required Bid Performance Security and the required agreement to bond will be declared non-compliant.

3.4 The Proponent shall include the actual cost of all bonds, with no mark-up, in the Price Proposal.

## 4. Domestic Supply Chain Plan

Proponents must submit a Domestic Supply Chain Plan detailing sources of major goods and services, identifying Ontario Made and Canadian Made content (Appendix E).

Please ensure that the Domestic Supply Chain Plan is uploaded in the Pricing Proposal Envelope only.

## 5. Other Mandatory Submission Requirements

Bidders must be a Canadian business or a Canadian Trade Partner as set out and acknowledged in the Submission Form (Appendix C).

## D. MANDATORY TECHNICAL REQUIREMENTS

Not Applicable.

## E. PRE-CONDITIONS OF AWARD

The selected proponent must satisfy the following conditions and provide the following information with ten (10) days of the notice of selection:

- (a) The performance bond and the labour and material bond described in the RFP Documents. The form of such bonds shall comply with the requirements prescribed in the *Construction Act*. Refer to the link below for the appropriate form (Form 31 and 32).

<https://ontariocourtforms.on.ca/en/construction-lien-act-forms/>

- (b) Certificates of insurance as specified in the Supplementary Conditions; and
- (c) A current Clearance Certificate issued by the Workplace Safety and Insurance Board, if applicable.

## F. EVALUATION CRITERIA

The following sets out the categories, weightings, and descriptions of the rated criteria of the RFP. Proponents who do not meet a minimum threshold score for a category will not proceed to the next stage of the evaluation process.

Item	Criteria	Weighting	Minimum Threshold
<b>1. TECHNICAL PROPOSAL</b>			
<b>1.0</b>	<b>Category 1: Experience and Qualifications</b>	<b>30</b>	<b>15</b>
1.1	Company Profile	5	
1.2	Project Team	10	
1.3	Project Profiles	15	
<b>2.0</b>	<b>Category 2: Schedule and Methodology</b>	<b>35</b>	<b>17.5</b>
2.1	Schedule	15	
2.2	Proposed Approach, Narrative & Methodology	20	
<b>3.0</b>	<b>Category 3: Health, Safety and Environmental</b>	<b>10</b>	<b>n/a</b>
3.1	Health, Safety & Environmental	10	
	<b>Total</b>	<b>75</b>	

**50% Minimum Threshold to be obtained in Category 1 (15/30), Category 2 (17.5/35) to Proceed to Stage 2 - Pricing Proposal. Proposals which do not meet these minimum thresholds will not be considered further.**

<b>2. PRICING PROPOSAL</b>			
	<b>Pricing</b>	<b>40</b>	<b>n/a</b>
	<b>Total Points</b>	115	
<b>3. DOMESTIC SUPPLY CHAIN</b>			
	<b>Domestic Supply Chain Plan</b>	10	

### Technical Proposal Content Requirements

The proponent shall provide a written proposal in PDF format.

The proposal to undertake the project shall include a clear outline, including the general items listed below, but also include other considerations based on the proponent's understanding of the project. Failure to provide the requested information will negatively affect the scoring of the proposal in the evaluation process.

***All submissions shall utilize the headings in the Technical Proposal Requirements table provided below, and in the order presented, which align with the Evaluation Criteria. All submissions shall also address the information requirements under each heading. Pricing is not to be provided in the Technical Proposal.***

<b>ITEM #</b>	<b>DESCRIPTION</b>
	<b>Title Page</b>
	<b>Table of Contents</b>
1.0	<b>Experience and Qualifications</b>
1.1	<p>Proponents shall include a Company Profile providing a high-level overview of their company, which includes the number of years your company has provided services similar to the scope of work in this RFP. Please describe your company's history, office locations, and corporate operating philosophy and description of the specific services and specialties offered.</p> <p>Proponents must demonstrate a <b><u>minimum of seven (7) years</u></b> of experience managing construction projects in Northern Ontario.</p> <p><u>Proponents shall also include company profiles for any and all Subcontractors being used for the completion of the project.</u></p>
1.2	Proponents shall provide an organizational chart and full detailed resumes of all personnel involved in the project, including the roles listed below. Details of the roles and responsibilities of the proponent and any of its agents, employees, and

sub-contractors who will be involved in providing the deliverables, together with the identity of those who will be performing those roles and their relevant respective expertise.

The key resource team shall include a Site supervisor, Project Manager and Quality Coordinator. The key personnel must be made available for the full term of the Contract. A succession plan must be established by the Contractor to ensure optimal management of the project in the event of temporary or permanent absence of the Site Supervisor and Project Manager, without jeopardizing project activities.

Proponents must designate named individuals for each of the following key personnel roles and provide a brief description identifying the role and responsibilities of each key personnel, with respect to the below services requested, together with their respective resumes:

### **Project Manager**

Key Responsibilities: Manage all project activities, including planning, coordination, communications, reporting, and ensuring adherence to quality, budget, and schedule requirements. Must Proactively identify project risks and implement mitigation strategies to ensure zero/minimal disruption to operations.

Experience/Qualifications: Shall have a minimum of five (5) years in projects of similar size and complexity in facility management and construction industry as a Project Manager as evidenced through the resume provided. PMP (Project Management Professional) or Equivalent professional designation is preferred.

### **Site Supervisor**

Key Responsibilities: A Site Supervisor must be on-site at all times, the Site Supervisor will be directly overseeing all work, including subcontractors, safety, and quality control, they are responsible for ensuring all labour and safety requirements are complied with and ensuring the work site is cleaned each workday. The Site Supervisor will be the main point of contact for the site and shall communicate with the owner as required to ensure work is completed with no impact on owner operations.

Experience/Qualifications: Shall have a minimum of five (5) years of experience in construction contracts and at least three (3) years of overall construction experience as a Site Supervisor as evidenced through the resume provided.

### **Quality Coordinator:**

Key Responsibilities: Given the technical requirements and importance of quality assurance, ONTC expects the Quality Coordinator to maintain a minimum 50% site presence throughout the project. Responsibilities include:

- Conducting regular inspections of workmanship and construction activities.
- Verifying adherence to specifications and project quality standards.
- Managing inspection and testing schedules.
- Maintaining records, schedules, and quality documentation.
- Working closely with ONTC's Project Manager to monitor progress and resolve deficiencies.

	<ul style="list-style-type: none"> <li>• Reporting regularly to ONTC, both formally and informally, on quality performance.</li> <li>• In addition, where fabrication or specialized testing is required, ONTC reserves the right to engage a third-party testing firm to supplement quality assurance.</li> </ul> <p>(Please follow Quality Control &amp; Quality Assurance sections of the Div-01)</p> <p><u>Experience/Qualification:</u> Minimum of five (5) years in quality assurance/control within the construction industry.</p> <p><b>Health and Safety Coordinator</b></p> <p><u>Key Responsibilities:</u> Develops and enforces the Site-Specific Safety Plan (SSSP). Conducts daily safety briefings (Toolbox Talks), performs regular site inspections, and manages incident reporting/investigations. Ensures all personnel (including subcontractors) have the required rail safety orientations and PPE.</p> <p>(Please follow the H&amp;S section of Div-01)</p> <p><u>Experience/Qualifications:</u> Minimum of five (5) years of <b>dedicated</b> health and safety experience in heavy industrial or civil construction.</p> <p>Note: Personnel listed in the proposal must be the individuals actually assigned to the project; any substitutions following contract award are subject to prior written approval from ONTC.</p>
1.3	<p>Proponents shall provide a minimum of three (3) relevant projects that have been completed in the last five (5) years. Provide examples of similar Construction projects where you managed risks such as ongoing site operations and occupied buildings that were of similar size and scope.</p> <p><b><u>Profiles must demonstrate experience-managing projects where work was completed while the building remained occupied.</u></b></p> <p>The project descriptions shall include:</p> <ol style="list-style-type: none"> <li>a) Company/Client name</li> <li>b) Name of Contact and contact details</li> <li>c) Project name and scope</li> <li>d) Value of project at kick-off and project value upon Ready-for-Takeover</li> <li>e) Start and end date at project kick-off and achieved project end date upon Ready-for-Takeover</li> <li>f) Description of work performed and use of subcontractors</li> <li>g) Outcomes (e.g., completed on schedule/budget)</li> </ol> <p><i>ONTC may, in its sole discretion, confirm the Proponent's experience in the projects identified by contacting the named contacts above.</i></p>
2.0	<b>Schedule and Proposed Approach</b>

<p>2.1</p>	<p>Proponents shall submit their Schedule in Gantt Chart Format and demonstrate that all milestone dates and completion dates align with the deliverables as detailed below.</p> <p>Proponents are required to identify the critical path in their Schedule and also describe it in their Proposed Approach.</p> <ul style="list-style-type: none"> <li>• The Schedule must be structured into logical stages/phases and further broken down by work packages. Each work package shall include a Work Breakdown Structure (WBS) outlining all major and minor activities, sequencing, task durations, dependencies, resource allocations and Subcontractors (if applicable) involved. Also, the schedule may include or indicate any overlaps and coordination with subcontractors. Work Breakdown Structure (WBS): Activities must be organized into logical phases (e.g., Mobilization, Procurement, Major Shop Drawing Review, Civil, Structural, Electrical, Mechanical work, Installation, Commissioning, Close-out) and further divided into granular work packages.</li> <li>• Execution Logic: Each task must clearly outline durations, dependencies (predecessors/successors), and resource allocations, including specific Subcontractor involvement and any overlaps.</li> <li>• Critical Path Analysis: Proponents must explicitly identify the Critical Path within the Gantt Chart and provide a narrative description of the risks and management strategies associated with it in their Proposed Approach. Including the Long Lead Items Procurement strategies, etc.</li> <li>• Operational Integration: The schedule must account for site-specific constraints, including coordination with ONTC’s ongoing operations and any required shutdowns or work windows.</li> </ul> <p><b>Note: The dates provided below do not list all milestones for this project. They are provided in order to meet ONTC’s high-level deadlines. Proponents are responsible for adding additional stages and aligning their schedules accordingly.</b></p> <ul style="list-style-type: none"> <li>• Construction Start Date: July 15, 2026</li> <li>• Final Completion Date: October 31, 2026</li> </ul>
<p>2.2</p>	<p>Proponents shall provide a detailed written narrative outlining their proposed approach for the completion of the project. The narrative should be clear, logical, and include sufficient detail with estimated durations for each task. Proponents shall demonstrate how they will minimize disruptions to ongoing operations.</p> <p>Proponents must demonstrate how their proposed solution aligns with the provided phased approach while ensuring practical operability. They are expected to apply their expertise to recommend improvements and identify what will work best in real-world conditions. Submissions should reflect consideration of operational efficiency, usability, and long-term sustainability.</p> <p>The Proposed Approach and methodologies must address the following priorities in alignment with the proposed schedule:</p>

	<p><b>Site Operations and Logistics</b></p> <ul style="list-style-type: none"> <li>• <b>Operational Continuity:</b> Provide a detailed strategy for executing construction without disrupting ONTC’s active rail movements and operations.</li> <li>• <b>Construction "Island" &amp; Access Control:</b> Describe the site-use plan, including temporary fencing, material staging, Master Point and strictly controlled access points. Outline how the Proponent will manage the interface between construction equipment and live tracks/ONTC staff.</li> <li>• <b>Weather Impact:</b> Detail the approach for managing Weather Impact to maintain the March 2027 completion date.</li> </ul> <p><b>Project Management &amp; Communication</b></p> <ul style="list-style-type: none"> <li>• <b>Stakeholder Integration:</b> Outline the communication framework for interfacing with the ONTC Project Manager and Facility Manager/Supervisor.</li> <li>• <b>Digital Reporting Tools: Proponents must include:</b> <ul style="list-style-type: none"> <li>- Reporting Methods</li> <li>- Note: AUTODESK Construction Cloud Platform will be used as a medium of communication and documentation between stakeholders; refer to the SOW section for more information.</li> </ul> </li> </ul> <p><b>Quality, Commissioning &amp; Handover</b></p> <ul style="list-style-type: none"> <li>• <b>Quality Control (QC) Methodology:</b> In alignment with the <b>Quality Coordinator’s</b> role, describe the inspection milestones, material testing (e.g., compaction, concrete, rail alignment), and the process for managing Non-Conformance Reports (NCRs).</li> <li>• <b>Final Handover &amp; As-Builts:</b> Provide a roadmap for the commissioning, training and the timely delivery of Closeout Documents.</li> </ul> <p><b>Critical Path &amp; Risk Mitigation</b></p> <p><b>Critical Path Narrative:</b> Elaborate on the logic used to determine the Critical Path. Identify the top three (3) risks to the schedule and provide a specific mitigation plan for each.</p>
<p><b>3.0</b></p>	<p><b>Health, Safety and Environmental</b></p>
<p>3.1</p>	<p>Proponents shall complete the Contractor Health and Safety Responsibility Agreement and the Contractor Safety Pre-Qualification Form attached at <u>Appendix E</u> and provide the following associated supporting documents:</p> <ul style="list-style-type: none"> <li>- WSIB Safety Record</li> <li>- Safety Records of the Organization</li> </ul>

	<p>Proponents shall provide a copy of the following:</p> <ul style="list-style-type: none"> <li>- Health, Safety and Environmental Protection Policy; and,</li> <li>- Environmental Protection Measures.</li> </ul> <p><i>Proponents must pass the Contractor Safety Pre-Qualification. Failure to pass may result in disqualification from the procurement process.</i></p>
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## G. PRICE EVALUATION METHOD

The ranking of proponents will be based on the total score calculated by adding the pricing points to the total points from the technical proposal.

Pricing is worth **35 points** of the total score.

Pricing will be scored based on a relative pricing formula using the rates set out in the pricing form. Each proponent will receive a percentage of the total possible points allocated to price, which will be calculated in accordance with the following formula:

$$\text{lowest price} \div \text{proponent's price} \times \text{weighting} = \text{proponent's pricing points}$$

### Instructions on How to Provide Pricing

- (a) Proponents should submit their pricing information by completing the attached pricing form and including it in their proposals.
- (b) Rates must be provided in Canadian funds, inclusive of all applicable duties and taxes except for HST, which should be itemized separately.
- (c) Unless otherwise indicated in the requested pricing information, rates quoted by the proponent must be all-inclusive and must include all labour and material costs, all travel and carriage costs, all insurance costs, all costs of delivery, all costs of installation and set-up, including any pre-delivery inspection charges, and all other overhead, including any fees or other charges required by law.

### Required Pricing Information

Please complete Schedule A - Schedule of Prices which is attached at [Appendix D](#).

## H. DOMESTIC SUPPLY CHAIN PLAN

Proponents must submit a Domestic Supply Chain Plan that outlines the source of each major good or service proposed to be used to deliver the project, including those supplied by subcontractors. Proponents must indicate which major goods are Ontario Made, Canadian Made, or sourced elsewhere, and whether the services are Ontario or Canadian Services.

The proponent offering the highest proportion of Ontario-made goods and Ontario Services, followed by Canadian-made goods, and Canadian Services in their Domestic Supply Chain Plan will receive a 10-point increase to the evaluation score.

All other proponents will be evaluated without adjustment. There is no change in scoring for proponents not offering the highest proportion of Ontario-made goods and Ontario Services, followed by Canadian-made goods, and Canadian Services.

The below relative formula will be used:

$$Formula = \frac{A + A + B}{Total Bid Price} \times 100$$

Where:

- A = Value of Ontario Made goods and Ontario Services
- B = Value of Canada Made goods and Canadian Services

Example:

Bidder	Total Evaluation Score	Total Bid Price Submitted (\$)	Total value of the Ontario Made Goods and Services (\$)	Total value of the Canadian Made Goods and Services (\$)	Weighted Value (A+A+B)	Proportion (%)	Adjusted Score
Bidder 1	75	\$1,000,000	\$250,000	\$150,000	\$650,000	65%	No adjustment
Bidder 2	90	\$950,000	\$95,000	\$200,000	\$390,000	41%	No adjustment
Bidder 3	85	\$1,040,000	\$420,000	\$100,000	\$940,000	90%	95 (Increased by 10 points)

## APPENDIX C - SUBMISSION FORM

### 1. Proponent Information

Please fill out the following form, naming one (1) person to be the proponent's contact for the RFP process and for any clarifications or communication that might be necessary.	
Full Legal Name of Proponent:	
Any Other Relevant Name under which Proponent Carries on Business:	
Street Address:	
City, Province/State:	
Postal Code:	
Phone Number:	
Company Website (if any):	
Proponent Contact Name and Title:	
Proponent Contact Phone:	
Proponent Contact Email:	

### 2. Sub-Contractor Information

The Bidder shall state all Subcontractor(s) and type of Work proposed to be used for this project. Bidders shall not indicate "TBD" (To Be Determined) or "TBA" (To Be Announced) or similar wording and shall not indicate multiple Subcontractor names for any Subcontractor category in their list of Subcontractors. The Bidder shall state only one (1) subcontractor for each type of work.

#### List of Sub-Contractors

In the spaces provided below, please list those subcontractors you intend to use:

By checking this box, I confirm that there are no Subcontractor(s) and the Bidder shall perform the project with their "**OWN FORCES**".

Item	Organization	Contact Name	E-mail	Phone
1				
2				
3				
4				

### 3. Bill S-211

ONTC adheres to, and reports under the Government of Canada's Bill S-211 Fighting against Forced Labour and Child Labour in Supply Chains Act.

1. Is your company required to report under the Government of Canada's Bill S-211 Fighting against Forced Labour and Child Labour in Supply Chains Act? Yes  No

2. Is your company compliant with the Government of Canada’s Bill S-211 Fighting against Forced Labour and Child Labour in Supply Chains Act? Yes  No

3. Has your company been involved in forced and/or child labour in the past? Yes  No

If yes, please provide details including date and action taken to mitigate.

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#### 4. Building Ontario Businesses Initiative and Procurement Restrictions

##### A - “Ontario business” means:

A supplier, manufacturer or distributor of any business structure that conducts its activities on a permanent basis in Ontario which:

- i. Has its headquarters or main office in Ontario, or
- ii. Has at least 250 full-time employees in Ontario at the time of the applicable procurement process.

Please select one of the following correct statement/s that describes your organization:

- Yes, my organization is an “Ontario business” as defined above.  
 No, my organization is not an “Ontario business” as defined above.

##### B - “Canadian business” means:

- i. A corporation or limited partnership existing pursuant to the Laws of Canada or any of the provinces or territories thereof, and which has ongoing commercial activities in Canada; or
- ii. An individual (including sole proprietors) or a general partnership which has a business address in Canada, and which has ongoing commercial activities in Canada.

Please select one of the following correct statement/s that describes your organization:

- Yes, my organization is a “Canadian business” as defined above.  
 No, my organization is not a “Canadian business” as defined above.

##### C - “Canadian Trade Partner Country” means:

A country that is signatory to one or more of the following trade agreements:

- Comprehensive Economic and Trade Agreement (CETA);
- World Trade Organization's Agreement on Government Procurement (WTO-GPA);
- Comprehensive and Progressive Agreement for Trans-Pacific Partnership (CPTPP); or,
- Canada-UK Trade Continuity Agreement (Canada-UK TCA)

Please select one of the following correct statement/s that describes your organization:

- Yes, my organization is an “Canadian Trade Partner Country” as defined above.

No, my organization is not an “Canadian Trade Partner Country” as defined above.

## **5. Offer**

The proponent has carefully examined the RFP documents and has a clear and comprehensive knowledge of the Deliverables required under the RFP. By submitting a proposal, the proponent agrees and consents to the terms, conditions, and provisions of the RFP, including the Form of Agreement, and offers to provide the Deliverables in accordance therewith at the rates set out in its proposal.

## **6. Rates**

The proponent has submitted its rates in accordance with the instructions in the RFP. The proponent confirms that it has factored all of the provisions of Appendix A, including insurance and indemnity requirements, into its pricing assumptions and calculations.

## **7. Addenda**

The proponent is deemed to have read and accepted all addenda issued by ONTC prior to the Deadline for Issuing Addenda. The onus is on proponents to make any necessary amendments to their proposals based on the addenda.

## **8. Communication with Competitors**

For the purposes of this RFP, the word "competitor" includes any individual or organization, other than the proponent, whether or not related to or affiliated with the proponent, who could potentially submit a response to this RFP.

Unless specifically disclosed below under Disclosure of Communications with Competitors, the proponent declares that:

- (a) it has prepared its proposal independently from, and without consultation, communication, agreement, or arrangement with any competitor, including, but not limited to, consultation, communication, agreement, or arrangement regarding:
  - (i) prices;
  - (ii) methods, factors, or formulas used to calculate prices;
  - (iii) the quality, quantity, specifications, or delivery particulars of the Deliverables;
  - (iv) the intention or decision to submit, or not to submit, a proposal; or
  - (v) the submission of a proposal which does not meet the mandatory technical requirements or specifications of the RFP; and
- (b) it has not disclosed details of its proposal to any competitor and it will not disclose details of its proposal to any competitor prior to the notification of the outcome of the procurement process.

### **Disclosure of Communications with Competitors**

If the proponent has communicated or intends to communicate with one (1) or more competitors about this RFP or its proposal, the proponent discloses below the names of those competitors and the nature of, and reasons for, such communications:

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**9. No Prohibited Conduct**

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

**10. Conflict of Interest**

The proponent must declare all potential Conflicts of Interest, as defined in Section 3.4.1 of the RFP. This includes disclosing the names and all pertinent details of all individuals (employees, advisers, or individuals acting in any other capacity) who (a) participated in the preparation of the proposal; **AND** (b) were employees of ONTC within twelve (12) months prior to the Submission Deadline.

If the box below is left blank, the proponent will be deemed to declare that (a) there was no Conflict of Interest in preparing its proposal; and (b) there is no foreseeable Conflict of Interest in performing the contractual obligations contemplated in the RFP.

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

- The proponent declares that there is an actual or potential Conflict of Interest relating to the preparation of its proposal, and/or the proponent foresees an actual or potential Conflict of Interest in performing the contractual obligations contemplated in the RFP.

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

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**11. Disclosure of Information**

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

**12. Proposal Irrevocable**

The proponent agrees that its proposal shall be irrevocable for the Irrevocability Period specified in the RFP, running from the moment the Submission Deadline has passed.

### 13. Execution of Agreement

The proponent agrees that in the event its proposal is selected by ONTC, in whole or in part, it will finalize and execute the Agreement in the form set out in Appendix A to this RFP in accordance with the terms of this RFP.

### 14. Travel

To the extent that travel expenses are expressly provided for under the written agreement for the Deliverables, the proponent hereby acknowledges that travel expenses must be approved in advance by ONTC and must be in compliance with the Management Board of Cabinet Travel, Meal & Hospitality Expenses Directive, January 2020 (<https://www.ontario.ca/page/travel-meal-and-hospitality-expenses-directive-2020>)."

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Signature of Proponent Representative

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Name of Proponent Representative

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Title of Proponent Representative

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Date

I have the authority to bind the proponent.

## APPENDIX D - SCHEDULE OF PRICES

Please refer to the separate Appendix D – Schedule of Prices excel worksheet. This form must be completed as part of the proposal.

### 1. SCHEDULE A - COST BREAKDOWN

Proponents shall complete the Schedule A - Cost Breakdown as provided.

### 2. DOMESTIC SUPPLY CHAIN PLAN

**Proponents shall complete the table provided in the separate Excel Sheet** and submit as part of their proposals, in order to identify the source and value of major goods and services required for the project, including those supplied by subcontractors. Indicate whether each item is Ontario Made, Canadian Made (outside Ontario), or from another jurisdiction (elsewhere).

Proponents shall not include overhead, profit, general conditions, or any indirect costs in the Domestic Supply Chain Plan pricing table. Only the direct dollar value of major goods and services is to be entered.

#### Definitions:

**“Canadian Business”** means a supplier, manufacturer or distributor of any business structure that conducts its activities on a permanent basis in Canada. The business either:

- i. has its headquarters or main office in any province or territory within Canada, or
- ii. has at least 250 full-time employees in any one province or territory within Canada at the time of the applicable procurement process.

**“Canadian-Made Goods”** means a good that meets any one of the following criteria:

- i. Is wholly manufactured or originating in Canada,
- ii. At least 51% of the total direct costs of producing or manufacturing the good have been incurred in Canada, or
- iii. Is labelled as “Made in Canada” or “Product of Canada”.

**“Canadian Service”** means a service wholly provided by individuals (natural persons) located in Canada.

**“Ontario Business”** means a supplier, manufacturer or distributor of any business structure that conducts its activities on a permanent basis in Ontario. The business either,

- i. has its headquarters or main office in Ontario, or
- ii. has at least 250 full-time employees in Ontario at the time of the applicable procurement process.

**“Ontario-Made Good”** means a good that meets any one of the following criteria:

- i. It is wholly manufactured or originating in Ontario, or
- ii. At least 51% of the total direct costs of producing or manufacturing the good have been incurred in Ontario.

**“Ontario Service”** means a service wholly provided by individuals (natural persons) located in Ontario.

Example:

**Example of Domestic Supply Chain Table**

<b>Item Description</b>	<b>Origin (Ontario, Canada, elsewhere)</b>	<b>Dollar Value (CAD)</b>
<b>Example: Concrete</b>	<b>Ontario</b>	<b>\$50,000.00</b>
<b>Example: Steel</b>	<b>Canada</b>	<b>\$30,000.00</b>
<b>Example: Fixtures</b>	<b>Other</b>	<b>\$10,000.00</b>

**3. PRICING FOR CHANGE ORDERS / CHANGE DIRECTIVES**

Proponents shall quote overhead and profit percentages based on the project cost ranges included in the table provided.

Proponents shall also provide the hourly rates of pay for the listed positions in the table provided.

**4. SCHEDULE OF PROGRESS PAYMENTS**

Proponents shall provide their Schedule of Progress Payments in the table provided.

**APPENDIX E - MANDATORY SITE VISIT**

**A. Site Visit Registration Form**

**Reference Number:** RFP 2026 031

**Title:** Cochrane Station Parking Lot Paving Project

**Submitted To:** ONTARIO NORTHLAND TRANSPORTATION COMMISSION

Please confirm that you plan to attend the Mandatory Respondents' Meeting by emailing a completed copy of this **Registration Form and Release of Liability** to [brinda.ranpura@ontarionorthland.ca](mailto:brinda.ranpura@ontarionorthland.ca), prior to Tuesday, June 02, 2026 at 4:00 p.m.

**Failure to submit this form by the time required may result in ONTC not being able to accommodate your attendance.**

**Proposals submitted by respondents that failed to attend the respondents' mandatory meeting will be declared non-compliant and will be rejected. Proposals submitted by proponents that failed to attend the proponents' mandatory meeting will be declared non-compliant and will be rejected.**

**Date of Meeting:** Wednesday, June 03, 2026

**Time of Meeting:** 2:00 p.m.

**Location:** 200 Railway Street, Cochrane, ON

**COMPANY NAME:** \_\_\_\_\_

**CONTACT NAME:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_

**TELEPHONE:** \_\_\_\_\_

**EMAIL:** \_\_\_\_\_

**NUMBER OF PERSONS ATTENDING:** \_\_\_\_\_

**PLEASE BRING THE FOLLOWING PERSONAL PROTECTIVE EQUIPMENT: SAFETY BOOTS, REFLECTIVE VEST, HARD HAT, AND SAFETY GLASSES WITH SIDE SHIELDS**

**ACCOMMODATION:** ONTC is an equal opportunity organization. Accommodation is available for respondent's with disabilities throughout the procurement process. if accommodation is REQUIRED, please contact [brinda.ranpura@ontarionorthland.ca](mailto:brinda.ranpura@ontarionorthland.ca).

**NOTE: THE ATTACHED RELEASE OF LIABILITY WILL BE REQUIRED TO BE EXECUTED BY ANY PERSONS ATTENDING THE SITE MEETING PRIOR TO ATTENDANCE.**

---

**B. Release of Liability Form**

**RELEASE OF LIABILITY  
IN RESPECT OF ENTERING AND WORKING UPON  
ONTARIO NORTHLAND TRANSPORTATION COMMISSION PROPERTY**

The undersigned applicant requests permission of Ontario Northland Transportation Commission (hereinafter referred to as "ONTC") to enter on ONTC property to attend a mandatory site meeting commencing at Cochrane, ON on Wednesday, June 03, 2026, in Cochrane, Ontario, associated with RFP 2026 031.

In consideration of ONTC permitting the Applicant and his/her/its employees, servants and agents to enter ONTC property for the purpose of the site meeting, the Applicant agrees it shall:

1. follow all instructions and directions from ONTC representatives while on ONTC property;
2. be liable for any and all damages to persons or property which may arise out of or be connected with the Applicant's entry on ONTC property, and the Applicant agrees to indemnify ONTC against any and all actions, suits, claims, damages, costs, liability and expenses which may arise by reason of the Applicant's operations while on ONTC property.
3. fully indemnify and save harmless ONTC, its officers, directors, employees, consultants, sub consultants, contractors, and agents (collectively "ONTC Indemnitees") from any kind of liability, suit, claim, demand, fine, action, loss, damage, legal cost and disbursement, or for which ONTC or ONTC Indemnities may become liable or suffer in connection with the Applicant's entry on ONTC property. For the purposes of this indemnity, ONTC is acting as the trustee of the ONTC Indemnitees. This indemnity section will survive the expiry of this permission;
4. enter on ONTC property at the sole cost, risk and expense of the Applicant; and,
5. release and discharge ONTC, its employees, servants and agents of and from any and all claims and demands of whatever nature and howsoever caused by reason of any loss, damage or injury to person or property which the Applicant or its employees, servants and agents may sustain or suffer while on ONTC property.

DATED AT \_\_\_\_\_ THIS \_\_\_\_ DAY OF \_\_\_\_\_, 2026.

Applicant \_\_\_\_\_ Witness \_\_\_\_\_

## **APPENDIX F - HEALTH, SAFETY AND ENVIRONMENTAL**

Proponents shall review and complete the Contractor Health and Safety Responsibility Agreement and Contractor Safety Pre-Qualification Form.

## A. Contractor Health And Safety Responsibility Agreement

In submitting this Proposal, I/We, on behalf of, \_\_\_\_\_  
(legal name of company)

certify the following:

- (a) I/We have a health and safety policy and will maintain a program to implement such policy as required by clause 25(2) (j) of the *Occupational Health and Safety Act*, R.S.O. 1990, c.O.1, as amended, (the "OHSA").

The requirements in (a) do not apply to employers with five (5) or less employees.

- (b) With respect to the Services being offered in this Proposal, I/We and on behalf of our proposed sub-consultants, acknowledge the responsibility to, and shall:

- (i) fulfill all of the obligations under the OHSA and ensure that all work is carried out in accordance with the OHSA and its regulations;
- (ii) ensure that adequate and competent supervision is provided as required under the OHSA to protect the health and safety of workers; and
- (iii) provide information and instruction to all employees to ensure they are informed of the hazards inherent in the work and understand the procedures for minimizing the risk of injury or illness.

- (c) I/We agree to take precautions reasonable in the circumstances for the protection of worker health and safety, as required under the OHSA.

Dated at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_, 202\_.

An Authorized Signing Officer \_\_\_\_\_

(Key Contact) \_\_\_\_\_

(Title) \_\_\_\_\_

(Telephone Number) \_\_\_\_\_

(Firm's Name) \_\_\_\_\_

(Firm's Address) \_\_\_\_\_

**B. Contractor Safety Pre-Qualification Form**

**Contractor Safety Pre-Qualification Form**

1. Company Identification:			ONTC Use
Company Name:	_____	Telephone:	_____
Mailing Address:	_____	Fax:	_____
	_____	E-mail:	_____
2. Form of Business:			
<input type="checkbox"/> Sole Proprietor	<input type="checkbox"/> Partnership:	<input type="checkbox"/> Corporation	
3. Officers:			Years with the Company
President / CEO	_____	_____	_____
Vice President	_____	_____	_____
Treasurer	_____	_____	_____
Who is the manager most responsible for health and safety?			
Name:	_____		Title: _____
4. How many years has your business operated under its current name?			_____
5. Under Current Management Since (Date)			_____
6. Parent Company Information			
Parent Name: _____			
City:	Province / State:	Postal / Zip Code:	
_____	_____	_____	
Subsidiaries:			
7. Insurance Contact Information			
Title:	Telephone:	Fax:	_____
Insurance			
8. Carriers: Type of Coverage: Telephone			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
9. Organization:			
Describe the nature of the work your company specialized in:			
<input type="checkbox"/>	_____	<input type="checkbox"/>	_____
<input type="checkbox"/>	_____	<input type="checkbox"/>	_____
<input type="checkbox"/>	_____	<input type="checkbox"/>	_____
<input type="checkbox"/>	_____	<input type="checkbox"/>	_____
<input type="checkbox"/>	_____	<input type="checkbox"/>	_____
10. Are any of the above services that you perform normally subcontracted to others?			
			<input type="checkbox"/> Yes <input type="checkbox"/> No



o) Workplace Hazardous Materials information System (WHMIS)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
p) Emergency Action Plan / Evacuation Plan	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
q) Spill Response / Reporting	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
r) Respiratory Protection	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
s) Designated Substances Management	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
t) Waste Staging / Disposal	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
u) Traffic Control	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
v) Hearing Conservation	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
14. Do you have a policy/procedure for terminating contracts of subcontractors who do not comply with the requirements of the <u>Occupational Health &amp; Safety Act</u> , associated regulations and / or company safety rules?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
15. Do your employees read, write and understand English to the degree that they can safely perform their tasks without the aid of an interpreter? ( <i>If no, provide a description of your plan to assure that they can safely perform their tasks</i> )	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
16. Do you have personnel certified in Emergency First Aid and CPR on site? If yes, provide copies of certificates of training for site personnel proposed for the project?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
17. Do you have First Aid kits available to your staff?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
18. Does your company use a formalized Health and Safety Plan for conducting large projects?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
19. Does the company conduct pre-placement medical examinations?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
20. Is task-adequate PPE provided to workers?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
21. Are employees trained in PPE care, use and maintenance?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
22. Do you have a corrective action process for addressing individual health and safety performance deficiencies	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
23. Equipment and Manuals:			
a. Do you conduct inspections on operating equipment (e.g. excavators, cranes, forklifts, vehicles, etc.) as per regulatory requirements?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
b. Do you maintain operating equipment in compliance with regulatory requirements?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
c. Do you maintain applicable pre-use inspection and maintenance certification records for operating equipment?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
d. Are records available upon request	<input type="checkbox"/> Yes	<input type="checkbox"/> No	

**24. Subcontractors**

- |  |                              |                             |  |
|--|------------------------------|-----------------------------|--|
| a. Do you use health and safety performance criteria in the selection of contractors?  | <input type="checkbox"/> Yes | <input type="checkbox"/> No |  |
| b. Do you require your subcontractor to have a written health and safety program?  | <input type="checkbox"/> Yes | <input type="checkbox"/> No |  |
| c. Are your subcontractors included in   | <input type="checkbox"/> Yes | <input type="checkbox"/> No |  |
| i. health and safety orientation   | <input type="checkbox"/> Yes | <input type="checkbox"/> No |  |
| ii. health and safety meetings   | <input type="checkbox"/> Yes | <input type="checkbox"/> No |  |
| iii. workplace inspections   | <input type="checkbox"/> Yes | <input type="checkbox"/> No |  |
| iv. health and safety audits   | <input type="checkbox"/> Yes | <input type="checkbox"/> No |  |
| d. Does the company have a policy for the termination of contracts of subcontractors who do not comply with the Occupation Health and Safety Act, regulations under the Act, contractor rules, programs, protocols policies or procedures? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |  |
| e. Does the company have a progressive discipline policy for employees and subcontractors?   | <input type="checkbox"/> Yes | <input type="checkbox"/> No |  |

**25. Health and Safety Training**

- |  |                              |                             |  |
|--|------------------------------|-----------------------------|--|
| a. Are you aware of the regulatory training requirements for your employees? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |  |
| b. Have your employees received the required health and safety training?     | <input type="checkbox"/> Yes | <input type="checkbox"/> No |  |
| c. Do you have specific health and safety training for supervisors?          | <input type="checkbox"/> Yes | <input type="checkbox"/> No |  |
| d. Do you keep records of health and safety training for employees?          | <input type="checkbox"/> Yes | <input type="checkbox"/> No |  |
| e. Are records of health and safety training available on request?           | <input type="checkbox"/> Yes | <input type="checkbox"/> No |  |

**26. Job Skills**

- |   |                              |                             |  |
|---|------------------------------|-----------------------------|--|
| a. Have employees been trained in appropriate job skills?                               | <input type="checkbox"/> Yes | <input type="checkbox"/> No |  |
| b. Are employee job skills certified where required by regulation or industry standard? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |  |
| c. Are certificates available upon request?   | <input type="checkbox"/> Yes | <input type="checkbox"/> No |  |

**27. Health and Safety Supervision**

- |   |                              |                             |  |
|---|------------------------------|-----------------------------|--|
| a. Does the company have a health & safety coordinator?           | <input type="checkbox"/> Yes | <input type="checkbox"/> No |  |
| b. Who is the highest ranking safety professional in the company_ | <input type="checkbox"/> Yes | <input type="checkbox"/> No |  |

*I agree that the above information is true and correct to the best of my knowledge. I also agree to follow all terms and conditions of the Contractor Safety Program at all times while performing work for ONTC. I understand that supporting documentation may be requested for due diligence verification purposes.*

Name: (Please print) \_\_\_\_\_  
 Signature: \_\_\_\_\_

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

## APPENDIX G - TECHNICAL SPECIFICATIONS

Refer to the Technical Specifications, as outlined below, which are attached to this Appendix G.

SECTION	TITLE
<b>Division 00 – Procurement and Contracting Requirements</b>	
00 31 00	Available Project Information
<b>Division 01 – General Requirements</b>	
01 11 00	Summary of Work
01 14 00	Work Restrictions
01 31 19	Project Meetings
01 32 00	Construction Progress Documentation
01 32 16.16	Construction Progress Schedule – Critical Path Method (CPM)
01 32 33	Photographic Documentation
01 33 00	Submittal Procedures
01 35 29.06	Health and Safety Requirements
01 35 43	Environmental Procedure
01 41 00	Regulatory Requirements
01 43 00	Quality Assurance
01 45 00	Quality Control
01 51 00	Temporary Utilities
01 52 00	Construction Facilities
01 55 26	Traffic Controls
01 56 00	Temporary Barriers and Enclosures
01 57 00	Temporary Controls
01 61 00	Common Products Requirements
01 71 00	Examination and Preparation
01 73 00	Execution
01 74 00	Cleaning
01 74 19	Waste Management and Disposal
01 77 00	Closeout Procedures
01 78 00	Closeout Submittals
01 79 00	Demonstration and Training
01 91 13	General Commissioning Requirements
01 91 13.13	Commissioning Plan
01 91 13.16	Commissioning Forms

**1 GENERAL**

**1.01 REFERENCE STANDARDS**

- .1 Canadian Construction Documents Committee (CCDC)
  - .1 CCDC 2-2020, Stipulated Price Contract.

**1.02 DEFINITIONS**

- .1 Available Project Information: information identified in this section, of any type, and in any form, and identified as Reference Documents. Available Project Information, or any part thereof, does not form part of the Contract Documents unless specifically incorporated into Contract Documents by means of copying, transcribing, or referencing, or is listed in the Agreement as a Contract Document.
- .2 Contractor: synonymous with Respondent

**1.03 USE AND RELIANCE UPON AVAILABLE PROJECT INFORMATION**

- .1 Available Project Information is made available to Respondents for the purpose of disclosing information that is available to the Consultant and Owner.
- .2 Per CCDC, Available Project information is made available to Respondents to fulfill the Owner's duty to disclose all relevant Project information to Respondents.
- .3 Do not consider the Available Project Information as a representation or warranty that the information is necessarily accurate, complete, or appropriate.
- .4 Respondents are responsible for interpreting and forming their own conclusions about the Available Project Information, including consideration of the time the document was created. Respondents are encouraged to obtain specialist advice if necessary. The Owner and Consultant assume no responsibility for interpretations or conclusions made.
- .5 In the event there is a conflict between the Contract Documents and the recommendations contained in the Available Project Information, the Contract Documents shall govern.

**1.04 AVAILABLE PROJECT INFORMATION**

- .1 The following Available Project Information is not incorporated into the Contract Documents, but is made available to Respondents:
  - .1 Attachment 1: xxxx
  - 2 Attachment 2: xxxx
- .2 The following Available Project Information is incorporated into the Contract Documents:

.1 Attachment 3: xxxx

### **1.05 RELATED INSTRUCTIONS**

- .1 Report any irregularities or changed surface conditions at the Place of the Work to the Owner a minimum of 7 days before RFP close.

## **2 PRODUCTS**

### **2.01 NOT USED**

- .1 Not Used.

## **3 EXECUTION**

### **3.01 NOT USED**

- .1 Not Used.

**END OF SECTION**

## 1 GENERAL

### 1.01 REFERENCE STANDARDS

1. Canadian Construction Documents Committee (CCDC)
  - .1 CCDC 2-2020, Stipulated Price Contract.

### 1.02 RELATED REQUIREMENTS

- .1 Refer to Specification Index for Sections applicable to this work.

### 1.03 WORK COVERED BY CONTRACT DOCUMENTS

- .1 Work of this Contract includes the following:
  - .1 This project involves the complete rehabilitation of the site, including the removal and replacement of existing asphalt surfaces, concrete curbs, pedestrian walkways, storm sewer systems, and parking lot lighting infrastructure. Interlock brick pavers located east of the station platform will be removed, re-leveled, and reset to achieve proper grades, accessibility, and long-term durability. The final phase of the work will include full pavement marking, identification of all accessible parking spaces in accordance with applicable standards, and the installation of new regulatory and wayfinding signage.
- .2 The Summary of Work provided above is for reference only:
  - .1 The contractor shall undertake the Work during the summer of 2026, with all Work to be completed by October 31st, 2026.

### 1.04 SUBMITTALS

- .1 Submit for review and Acceptance in accordance with Section 01 33 00 - Submittal Procedures.
- .2 In addition to Submittals identified throughout the Specifications, submit the following:
  - .1 Submit Project Construction Schedule in accordance with Section 01 32 16.16 - Construction Progress Schedule.
  - .2 Submit Construction Waste Management Plan highlighting recycling and salvage requirements in accordance with Section 01 74 19 - Waste Management and Disposal.
  - .3 Submit site-specific Health and Safety Plan in accordance with Section 01 35 29.06 - Health and Safety Requirements.
  - .4 Submit a Construction Project Management Plan, including communication, risk, and Quality Management Plans.
  - .5 Submit and update on a bi-weekly basis a project risk register including a risk description, scoring, ranking, and corresponding mitigation measures.

**1.05 WORK BY OTHERS**

- .1 The Work under this Contract shall be performed by the Contractor.
- .2 Contractor shall co-operate with other contractors retained by the Owner in carrying out their respective works and carry out instructions from the Owner and the Consultant. Refer to Contract Documents for additional requirements.

**1.06 WORK SEQUENCE**

- .1 Construct Work in a manner that accommodates Owner's and public continued and/or intermittent use of premises during construction. Refer to Section 01 14 00 - Work Restrictions.
- .2 Co-ordinate Construction Schedule and Owners use of premises during construction.
- .3 Do not close off Owner or public usage of premises until use of one stage of Work will provide alternate usage.
- .4 Maintain fire access/control.
- .5 Protect workers and public safety.
- .6 Work near rail tracks shall be preapproved by the Owner and completed as per Owner's procedures and policies.

**1.07 CONTRACTOR USE OF PREMISES**

- .1 Contractor shall establish a Construction Area where the Contractor assumes the role of Constructor and will be responsible for the Construction Area until Ready for Takeover. The Contractor will be required to secure the Construction Area for the duration of the Project. The Contractor will be responsible for all activities inside the Construction Area, including health and safety. The Contractor shall coordinate the Work with the Owner to ensure that work being done by the Owner in the areas outside of the Construction Area is not interrupted. Access by the Contractor shall be restricted to the Construction Area only.
- .2 In some circumstances, Contractor shall coordinate and limit its access to Construction Area to allow:
  - .1 Owner occupancy.
  - .2 Partial owner occupancy.
  - .3 Work by other contractors or utilities providers.
  - .4 Public usage.
  - .5 Third Party Property Owner occupancy and use.
- .3 Co-ordinate use of premises under the direction of the Owner.
- .4 Refer to Section 01 51 00 - Temporary Utilities, Section 01 52 00 - Construction Facilities and Section 01 56 00 - Temporary Barriers and Enclosures, for temporary facilities, access roads and

parking areas, traffic regulations, and utilities.

### 1.08 OWNER OCCUPANCY

- .1 Owner may occupy premises (adjacent buildings, railway tracks) during the entire construction period for execution of normal operations.
- .2 Co-operate with the Owner in scheduling of the Work to minimize conflict and to facilitate Owner occupancy and usage of the adjacent premises.

### 1.09 Products Supplied by Others

- .1 Contractor is responsible for receiving, unloading, if required, and handling Products Supplied by Others at the project site; setting or installing the Products in place; making any required connections to the mechanical, plumbing, electrical systems, and any other systems; and disposal of shipping or packing materials. Owner and/or Consultant and Contractor shall jointly inspect the Products for damage upon delivery to the Place of the Work. If this inspection determines that the furnished Products are damaged or defective, the Owner will arrange for the necessary replacement or repairs. Contractor is responsible for protecting the Products Supplied by Others from damage during storage and handling and is responsible for damage caused to those Products during storage and handling.
- .2 Contractor to install all Products Supplied by Others in accordance with the manufacturer's installation instructions and the design Drawings, Specifications and Contract Documents.
- .3 Contractor to review manufacturer's installation instructions and advise the Consultant of any discrepancies or issues in a timely manner to avoid any potential delays.
- .4 Contractor to obtain manufacturer and Consultant approval before making any modification to Products Supplied by Others.
- .5 Upon completion of the installation of the Products Supplied by Others, the Contractor, the Consultant and/or the Owner will inspect the Work. Manufacturers and or Suppliers may participate in the inspection as required by their contract obligations. Upon Acceptance, the Contractor will provide a workmanship warranty in accordance with the Contract Documents.

### 1.10 EXISTING SERVICES

- .1 Notify the Owner, the Consultant, Third Party Property Owners when applicable, and utility companies of intended interruption of existing services and obtain required permissions when applicable.
- .2 Where Work involves breaking into or connecting to existing services, provide the Owner at least five (5) Working Days' notice of necessary interruptions of mechanical or electrical service during the Work. Minimize the duration of interruptions. Carry out Work at times as directed by Authorities Having Jurisdiction and the Owner to ensure minimum disturbance to pedestrian and vehicular traffic and the Owner operations.
- .3 Provide alternative safe and protected routes for personnel, pedestrian and vehicular traffic.

- 
- .4 Establish location and extent of service lines in the Place of the Work before starting Work. Notify the Consultant of findings.
  - .5 Submit schedule for Acceptance by the Consultant ten (10) Working Days before any scheduled work for any shut-down or closure of active service or facility including power and communications services. Adhere to Accepted schedule and provide notice to affected parties. Refer to Section 01 14 00 - Work Restrictions.
  - .6 Provide temporary services when directed by the Owner to maintain critical operations, building and tenant services. Refer to Section 01 14 00 - Work Restrictions.
  - .7 Provide adequate bridging over trenches which cross sidewalks or roads to permit normal traffic.
  - .8 Where unknown services are encountered, immediately advise the Consultant and confirm findings in writing.
  - .9 Protect, relocate or maintain existing active services. When inactive services are encountered, cap off in a manner approved by Authorities Having Jurisdiction and the Consultant.
  - .10 Record locations of maintained, re-routed and abandoned service lines.
  - .11 Construct barriers, as required, in accordance with Section 01 56 00 - Temporary Barriers and Enclosures.
  - .12 Locate and trace existing underground services before any excavation.
  - .13 Any damage to existing services during the Work will be the responsibility of the Contractor.

#### **1.11 DOCUMENTS REQUIRED**

- .1 Maintain at the Place of the Work, one copy of each document as follows:
  - .1 Contract Documents.
  - .2 Contract Drawings.
  - .3 Technical Specifications.
  - .4 Accepted Shop Drawings, Product data and samples.
  - .5 List of Outstanding Shop Drawings.
  - .6 Change Orders.
  - .7 Other Contract Amendments.
  - .8 Field Test Reports.
  - .9 Copy of Accepted Construction Schedule.
  - .10 Health and Safety Plan and Other safety related documents.
  - .11 As-Built Drawings.

.12 Other documents as specified.

## **2 EXECUTION**

### **2.01 General Requirements:**

- .1 Contractor will be required to complete the Work in accordance with applicable federal, provincial, and municipal laws.
- .2 The Contractor shall designate a Project Manager with overall responsibility for the Work. The Contractor will also designate a site supervisor who will be responsible for managing the Work at each site and be responsible for on-site safety, including all Sub-contractors and Suppliers. The site supervisor will be the single point of contact at each site. This site supervisor will be required to communicate with the Consultant and Owner as required to ensure the Work is completed safely with no impact on Owner operations.
- .3 The Contractor will be required to coordinate their hours of work with the Owner.
- .4 The Contractor's employees, Subcontractors, and Suppliers will be required to sign in and sign out every time they enter or leave the Place of the Work using a sign-in/sign-out log book which will be held by the site supervisor in charge of that site.
- .5 Contractor shall supply all necessary tools, machinery, and equipment to perform the Work including, but not limited to, forklifts, mobile cranes, hoisting equipment, scaffolding, ladders, man lifts, temporary lighting, heating, welding machines, ventilation, consumables, and any other material or equipment required to complete the Work. The Contractor shall provide all necessary vehicles and qualified personnel to transport people and materials.

**END OF SECTION**

## 1 GENERAL

### 1.01 REFERENCE STANDARDS

1. Canadian Construction Documents Committee (CCDC)
  - .1 CCDC 2-2020, Stipulated Price Contract.

### 1.02 RELATED REQUIREMENTS

- .1 Canadian Rail Operating Rules.
- .2 ONTC Contractor/Subcontractor Policy.
- .3 Contractors Working On ONTC Property Near Railway Tracks.
- .4 Railway Flagging Protection Policy
- .5 Section 01 73 00 - Execution

### 1.03 ACCESS AND EGRESS

- .1 Design, construct and maintain temporary "access to" and "egress from" Construction Areas, including stairs, runways, ramps or ladders and scaffolding, independent of finished surfaces and in accordance with the applicable laws of Authorities Having Jurisdiction.

### 1.04 USE OF SITE AND FACILITIES

- .1 Execute Work with least possible interference or disturbance to normal use of premises. Make arrangements with Consultant to facilitate Work as stated.
- .2 Where premises are not owned by the Owner or are leased to Third Party Property Owners, provide written notification of access and planned Work to the Consultant (10) Working Days prior to the Work commencing.
- .3 Maintain existing services to building and provide for safe and protected access for people and vehicles.
- .4 Where security is reduced by the Work provide temporary means to maintain security.
- .5 Closures: protect the Place of the Work temporarily until permanent enclosures are completed.
- .6 Carry out Work Monday to Friday during hours of 7:00 am to 5:00 pm. Work outside of these hours, including on weekends, shall be pre-approved. Submit a request to the Consultant for review and approval to work outside these hours a minimum of five (5) Working Days prior to the work commencing.

### 1.05 SPECIAL REQUIREMENTS

- .1 Protect rail infrastructure as directed by the Owner and obtain approval before working near live tracks. Submit a request to the Consultant in accordance with the Contractors Working On ONTC Property Near Railway Tracks and Railway Flagging Policies for any scheduled work near rail tracks. Requests should be submitted seven (7) Working Days prior to the Work commencing. Include in the request the scope of Work, proposed schedule (duration) and names of workers who will perform the Work. Follow the ONTC policies while working near tracks. Work near tracks will be supervised by the Owner. The Owner will provide a qualified person for flagging protection. Upon completion of the Work, clean the area and return the area and affected adjacent areas to their original or better conditions. Adhere to direction of the person providing flagging protection to ensure the site is safe and ready to resume rail operations.
- .2 Ensure Contractor's personnel on site are familiar with and obey the policies and safety, fire, traffic and security regulations and have completed the ONTC site orientation training.
- .3 Keep within limits of Work and avenues of ingress and egress.
- .4 Contractor may apply for Line Closures if required. Line Closures will not be granted within the times outlined in Section 1.09 Train Timetable for Station Work Near Mainline Track. Submit a request to the Consultant for review and approval a minimum of five (5) Working Days prior to the work commencing for any planned Line Closures.
- .5 **Additional requirements:**
  - .2 Construct Work in stages and in a manner that accommodates the Owner's continued and/or intermittent use of premises during construction.
  - .3 ONTC operations shall not be interrupted. Coordinate with Consultant to facilitate the execution of the work with minimal disruption.
  - .4 Arrange and obtain Consultant approval for any temporary utility outages a minimum of seven (7) Working Days prior to the commencement date of the Work, including details about the Work to be completed and the schedule for the Work. Provide temporary power services to ensure no outages to maintain critical operations, building and tenant services.
  - .5 Limit access to the Construction Area.
  - .6 Employ just-in-time delivery methods to minimize required storage and laydown space.
  - .7 Arrange and obtain Owner approval to access ONTC building to complete Work under this Contract. Submit a request to Owner and the Consultant a minimum of seven (7) Working Days prior to the proposed commencement date for the Work, including details about the Work to be completed, the schedule for the Work and a list of Contractor employees and Subcontractors and Suppliers involved in the Work.
  - .8 Do not move Products and Construction Equipment through the building, unless authorized by the Owner.
  - .9 Park vehicles in locations approved by Consultant.
  - .10 Where the excavation, cutting and/or patching is required closely or immediately adjacent to,

- and/or drilling into, the existing building foundation assess impact and provide for Acceptance a site plan which demonstrates structure is not affected and specifies reinstatement prior to undertaking the Work.
- .11 Contractor shall not access Third Party leased land without prior approval by the Owner. Submit a request to Owner and the Consultant a minimum of seven (7) Working Days prior to the proposed commencement date for the Work, including details about the Work to be completed, the schedule for the Work and a list of Contractor employees and Subcontractors and Suppliers involved in the Work.
  - .12 Park vehicles in locations approved by the Consultant and Third-Party Property Owner.
  - .13 Where the excavation, cutting and/or patching is required closely or immediately adjacent to, and/or drilling into, the existing building foundation assess impact and provide for Acceptance a site plan which demonstrates structure is not affected and specifies reinstatement prior to undertaking the Work.
  - .14 Inform Owner and the Consultant of large deliveries and arrange the delivery in a manner that will not affect ONTC operations or the safety of public.
  - .15 Obey site traffic rules and speed limits.

**1.06 SMOKING ENVIRONMENT**

- .1 Comply with smoking and vaping restrictions. Smoking and vaping are not permitted.

**1.07 VIDEO SURVEILLANCE:**

- .1 Video surveillance cameras are installed on Ontario Northland-owned and leased property to ensure the safety and security of passengers, employees, visitors, assets, infrastructure and the public. In accordance with the Freedom of Information and Protection of Privacy Act (FIPPA), the use of video surveillance cameras is carried out in a manner that respects and minimizes privacy intrusion. Recorded video footage only is protected, used or disclosed for investigative purposes related to a health and safety matter, a railway occurrence or for an incident of suspected crime, property damage, motor vehicle damage or personal injury.

**1.08 COMMUNICATION PROHIBITION:**

- .1 Owner will lead and make any announcements relating to the Work. The Contractor shall not make any announcement of any kind, including press releases, social media posts, public declarations, or any form of publication or announcement, in relation to the Work unless prior written consent is given by Owner. If the Contractor is contacted by any media outlet or other person or entity wishing to make any form of publication or announcement or seeking any information in relation to the Work, the Contractor shall not provide any information and shall refer the person to Owner and immediately notify Owner.

END OF SECTION

## **1 GENERAL**

### **1.01 REFERENCE STANDARDS**

- .1 Canadian Construction Documents Committee (CCDC)
  - .1 CCDC 2-2020, Stipulated Price Contract.

### **1.02 RELATED REQUIREMENTS**

- .1 Section 01 33 00 – Submittal Procedures.

### **1.03 ADMINISTRATIVE**

- .1 Schedule and administer project meetings throughout the progress of the Work in accordance with the Specifications and at the call of the Owner or the Consultant.
- .2 Prepare agenda for meetings.
- .3 Unless otherwise specified in Specification sections, distribute written notice of each meeting five (05) Working Days in advance of meeting date to the Owner, the Consultant and any other meeting participants.
- .4 Provide physical space at one of the Places of Work and make arrangements for meetings.
- .5 The Consultant will chair the meetings.
- .6 Record the meeting minutes. Include significant proceedings and decisions. Identify actions by parties.
- .7 Reproduce and distribute copies of minutes within three (03) Working Days after meetings and transmit to meeting participants and, affected parties not in attendance, the Owner and the Consultant.
- .8 Representatives of the Contractor, Subcontractor and suppliers attending meetings shall be qualified and authorized to act on behalf of the party each represents.

### **1.04 PRECONSTRUCTION MEETING**

- .1 Within (10) Working Days after award of Contract and before Contractor mobilization to the Place of the Work, request a meeting of parties in contract to discuss and resolve administrative procedures and responsibilities related to the Work.
- .2 The Owner, Consultant, Contractor, major Subcontractors, field inspectors and supervisors and other parties, as applicable and at their discretion, will be in attendance.
- .3 Arrange with the Consultant the time and location of meeting and notify parties concerned minimum five (5) Working Days before meeting.
- .4 Agenda to include, but not limited to:
  - .1 Appointment of official representative of participants in the Work.
  - .2 Construction Schedule: in accordance with Section 01 32 00 – Construction Progress Documentation.

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- .3 Schedule of submission of Shop Drawings, samples, colour chips. Submit Submittals in accordance with Section 01 33 00 - Submittal Procedures.
  - .4 Requirements for temporary facilities, site signage, offices, storage sheds, utilities, site set-up/Utility connections, laydown areas, fences in accordance with Section 01 52 00 - Construction Facilities.
  - .5 Delivery schedule of specified equipment in accordance with Specifications.
  - .6 Site security in accordance with Section 01 56 00 - Temporary Barriers and Enclosures.
  - .7 Proposed changes, Change Orders, procedures, Acceptance required, approvals required, mark-up percentages permitted, time extensions, overtime, and administrative requirements.
  - .8 Products Supplied by Others
  - .9 Record As-Built Drawings in accordance with Section 01 33 00 - Submittal Procedures.
  - .10 Operations and Maintenance manuals in accordance with Section 1 78 00 - Closeout Submittals.
  - .11 Take-over procedures, Acceptance, and warranties in accordance with Section 01 78 00 - Closeout Submittals.
  - .12 Monthly progress, claims, administrative procedures, photographs, holdbacks, commissioning, and training.
  - .13 Appointment of inspection and testing agencies or firms.
  - .14 Insurances, transcript of policies.
  - .15 Site Safety and Fire protection in accordance with section 01 35 29.06 Health And Safety Requirements.
  - .16 Existing conditions and ONTC site use/operations.
  - .17 Cleaning and Waste Management
  - .18 Invoicing and payment procedures
  - .19 Lines of Communication, use of Social Media and distribution List.

#### **1.05 PROGRESS MEETINGS**

- .1 During course of Work and up to the completion date, schedule regular monthly progress meetings.
- .2 Contractor, major Subcontractors involved in Work, the Owner, and the Consultant are to be in attendance. Other parties may attend subject to the agreement of the Consultant.
- .3 Agenda to include, but not limited to, the following:
  - .1 Review, approval of minutes of previous meeting.
  - .2 Review of Work progress since previous meeting.

- .3 Field observations, problems, conflicts.
- .4 Problems which impede Construction Schedule.
- .5 Review of off-site fabrication delivery schedules.
- .6 Corrective measures and procedures to regain baselined Construction Schedule.
- .7 Proposed revisions to Construction Schedule.
- .8 Progress against Construction Schedule, during succeeding work period.
- .9 Review Submittal schedules: expedite as required.
- .10 Maintenance of quality standards.
- .11 Review proposed changes for effect on Construction Schedule and on completion date.
- .12 Safety concerns and issues.
- .13 Open items, Request For Information (RFI) and Supplemental Instructions (SI).
- .14 Other business.

#### **1.06 COMMISSIONING MEETINGS**

- .1 Arrange pre-commissioning meetings for the commissioning of equipment and systems in accordance with 01 91 13 – General Commissioning Requirements. The Owner, the Consultant and Contractor commissioning team shall be in attendance.
- .2 The meeting's intent is to ensure all parties are fully aware of the Commissioning expectations and requirements.
- .3 Meeting Agenda to include, but not limited to:
  - .1 Review Commissioning plan, Specification, and process.
  - .2 Review Commissioning documentation.
  - .3 Review all factory testing that will be required.
  - .4 Review training requirement/schedule.
  - .5 Discuss future Commissioning meetings.
  - .6 Issues/risks.

#### **1.07 SUBSTANTIAL COMPLETION MEETINGS:**

- .1 Arrange pre-Substantial Completion meetings. The Contractor, the Owner and the Consultant shall be in attendance.

**1.08 OTHER MEETINGS:**

- .1 The Contractor shall, as directed by the Consultant, attend Project coordination meetings, which may be required in addition to the specific meetings listed herein. Meetings may include topics related to site and railway safety, orientation and training, design compliance, Work progress and issues, installation of Products Supplied by Others, coordination of Subcontractors, quality, delivery and Acceptance activities, warranty, dispute resolution, and environmental issues.
- .2 Arrange meetings with the Consultant to coordinate large deliveries and in advance of complex installation.

**END OF SECTION**

## 1 GENERAL

### 1.01 SUMMARY

- .1 This Section specifies Contractor's responsibilities for the preparation and submission of Construction Schedule updates, progress reports and other documentation related to tracking progress of the Work.
- .2 The purpose of submitting construction progress documentation is to:
  - .1 Inform the Owner and the Consultant of actual progress versus planned progress, and;
  - .2 Provide assurance that scheduling issues are being proactively identified and addressed in a timely manner, and that planned progress is being maintained as closely as possible.

### 1.02 REFERENCE STANDARDS

- .1 Canadian Construction Documents Committee (CCDC)
  - .1 CCDC 2-2020, Stipulated Price Contract.

### 1.03 RELATED SECTIONS

- .1 Section 01 31 19 - Project Meetings.
- .2 Section 01 33 00 - Submittal Procedures.
- .3 Section 01 77 00 - Closeout Procedures.
- .4 Section 01 32 00.16 - Construction Progress Schedule – Critical Path Method (CPM).

### 1.04 SUBMISSION

- .1 Submit, for review and Acceptance a Construction Schedule within ten (10) Working Days from Contract award. The Construction Schedule shall be based on the Contractor's initial schedule submitted at the RFP phase. Notify the Consultant of any major changes from the initial schedule.
- .2 Submit schedules in PDF and Excel files. Submit via email unless otherwise requested.
- .3 Consultant will review the Construction Schedule and return review copy within ten (10) Working Days after receipt.
- .4 If changes are required, resubmit, the Construction Schedule for Acceptance within five (5) Working Days after return of review copy.
- .5 The Accepted Construction Schedule shall be baselined and all progress updates shall be made against this version. The baselined Accepted Construction Schedule shall not be changed without the agreement of the Consultant and shall be subject to review and Acceptance prior to becoming the new baselined Construction Schedule.
- .6 Submit updated progress schedule with each monthly construction report in accordance with clause 2.2 of this section.
- .7 Distribute copies of revised schedule to:

- .1 Job site offices.
- .2 Subcontractors.
- .3 Other concerned parties.
- .8 Instruct recipients to report to Contractor within five (5) Working Days any problems anticipated by timetable shown in the schedule.

**1.05 CONSTRUCTION SCHEDULE UPDATES**

- .1 Show projected percentage of completion of each item as of the last date of the month.
- .2 Indicate progress of each activity to date of submission schedule.
- .3 Show changes occurring since previous submission of Construction Schedule:
  - .1 Major changes in scope.
  - .2 Activities modified since previous submission.
  - .3 Revised projections of progress and completion.
  - .4 Other identifiable changes.
- .4 Provide a narrative report to define:
  - .1 Problem areas, anticipated delays, and impact on schedule.
  - .2 Corrective action recommended and its effect.
  - .3 Effect of changes on schedules of other prime contractors.
- .5 Schedules shall be continuous, and logic driven without using hard constraints, Lags and Leads.

**2 PRODUCTS:**

**2.01 DAILY CONSTRUCTION REPORTS:**

- .1 Prepare a daily construction report recording the following information concerning events at Project Site and include progress photos as applicable:
  - .1 List of subcontractors at Project Site.
  - .2 Approximate count of personnel at Project Site.
  - .3 Equipment at Project Site.
  - .4 Material Deliveries.
  - .5 Accidents/Incidents/Near Misses.
  - .6 Meetings and Significant Decisions.
  - .7 Unusual and emergency Events.
  - .8 Stoppages, Delays, Shortages, and Losses.
  - .9 Orders and requests of Authorities Having Jurisdiction.
  - .10 Change Orders received and implemented.

- .11 Construction Work Change Directives received and implemented.
  - .12 Services Connected and Disconnected.
  - .13 Equipment or System Tests and Startups.
  - .14 Partial Completions and Occupancies.
  - .15 Substantial Completions Authorized.
  - .16 Progress made in Work that day
- .2 Submit daily reports at the end of each shift to ONTC and the Consultant.
  - .3 A report shall be submitted for each Work site.

## **2.02 MONTHLY CONSTRUCTION REPORTS:**

- .1 Monthly progress reports shall be prepared by the Contractor and submitted to the Consultant in the form of an electronic copy of the relevant Construction Schedule files to demonstrate how the Work is actually progressing and the planned and detailed sequencing of the Work at the time of the report. The cut-off date for the monthly progress report shall be the last date of the month and the report shall be submitted no later than ten (10) Working Days after the cut-off date.
- .2 Each monthly progress report shall be in a format acceptable to the Owner, and shall be arranged according to the following headings and sub-headings:
  - .1 Executive Summary.
    - 1. Activity to (date).
    - 2. Forecast activity to (date).
  - .2 Project Cost Information:
    - 1. Budget Summary.
    - 2. Cash Allowance Log.
    - 3. Change Order Log.
  - .3 Project Data:
    - 1. Project Schedule.
    - 2. Shop Drawing Log.
    - 3. Site Inspection Log.
    - 4. Site Testing Log.
  - .4 Risk and Critical Issues Log.
  - .5 Site Photos.
- .3 Each monthly progress report shall include:
  - .1 An updated schedule showing progress against the baselined Accepted Construction Schedule, comparing actual and target progress for all milestones and activities. Sort activities by activity identification number and accompany with descriptions. List early and late start and finish dates together with durations, codes and float.

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- .2 Criticality report listing activities and milestones with up to five (5) days of total float used as first sort for ready identification of near critical paths through entire project. List early and late starts and finishes dates, together with durations, codes and float for critical activities.
  - .3 Progress report in early start sequence, listing for each trade, activities due to start, to be underway, or finished within two months from monthly update date. List activity identification number, description and duration. Provide columns for entry of actual start and finish dates, duration remaining and remarks concerning action required.
  - .4 A schedule narrative, including:
    1. Detailed descriptions of progress, including each stage of procurement, fabrication, delivery to site, construction, installation, and testing;
    2. Discussion of the basis for any work sequencing, logic, interdependencies or original activity duration revisions incorporated into an updated progress schedule; and
    3. Comparisons of actual and planned progress, with a brief commentary on any actual or forecast delays or problems that might have an impact on the completion. date of the Work, and a discussion of the measures being (or to be) adopted to overcome these.
    4. Charts showing the status of Submittals, permits and approvals, utility relocations, purchase orders, manufacturing/fabrication and construction.
    5. For each fabricated item, the name and location of the fabricator, percentage progress, and the actual or expected dates of commencement of fabrication, Contractor's inspections, tests and delivery.
    6. Progress photographs taken, prepared, and submitted in formats specified, all in accordance with Section 01 32 33 - Photographic Documentation.
    7. Request For Information (RFI) log.
  - .5 Timely submission of updates is of significant and crucial importance to the management of this project. Lack of or late receipt of updates diminishes their value to the Owner and the Consultant. Therefore, if the Contractor fails to submit any progress schedule or required revision to a progress schedule within the prescribed time period, the Owner, in its sole discretion, may hold back subsequent progress payments until the updated schedule is submitted or the revision is accepted.
  - .6 The monthly progress reports and progress schedules will be used by the Owner and the Consultant to monitor the Contractor's performance against the baselined Accepted Construction Schedule.

### **2.03 RECORDING ACTUAL SITE CONDITIONS ON AS-BUILT DRAWINGS**

- .1 Obtain from Consultant an electronic copy of the construction Drawings for the purpose of creating As-built drawings.
- .2 Record information on a set of black line opaque drawings.
- .3 Use marking pens, maintaining separate colours for each major system, for recording information.

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- .4 Clearly label each As-Built Drawing as "AS-BUILT DRAWING". Record information concurrently with construction progress. Do not conceal Work until required information is recorded.
  - .5 Record actual construction including:
    - .1 Measured depths of elements of foundation in relation to finish first floor datum;
    - .2 Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements;
    - .3 Measured locations of pipes, ducts, conduits, outlets, fixtures, access panels, and appurtenances, referenced to visible and accessible features of construction;
    - .4 Field changes of dimension and detail;
    - .5 Changes made by Change Orders and Supplemental Instructions;
    - .6 References to Shop Drawings, where Shop Drawings show more detail.
    - .7 Referenced Standards to related Shop Drawings and modifications.
    - .8 Details not on original Contract drawings.
  - .6 Do not use As-Built Drawings for construction purposes.
  - .7 Following construction, Contractor shall prepare As-Built Record Drawings in accordance with Section 01 78 00 Closeout Submittals.

#### **2.04 MATERIAL LOCATION REPORTS:**

- .1 At bi-weekly intervals, prepare and submit a comprehensive list of materials delivered to and stored at Place of the Work. List shall be cumulative, showing materials previously reported plus items recently delivered. Include with list a statement of progress on and delivery dates for materials or items of equipment fabricated or stored away from Project site.
- .2 Indicate the following categories for stored materials:
  - .1 Material stored prior to previous report and remaining in storage.
  - .2 Material stored prior to previous report and since removed from storage and installed.
  - .3 Material stored following previous report and remaining in storage.

### **3 EXECUTION**

#### **3.01 CONTRACTOR'S CONSTRUCTION SCHEDULE**

- .1 Contractor's Construction Schedule Updating: At weekly intervals, update schedule to reflect actual construction progress and activities.
- .2 Distribution: Distribute copies of Accepted Construction Schedule to the Owner, Consultant, Subcontractors, testing and inspecting agencies, and other parties identified by Contractor with a need-to-know schedule responsibility.
  - .1 Post copies in Project meeting rooms and temporary field offices.

- .2 When revisions are made, distribute updated schedules to the same parties and post in the same locations. Delete parties from distribution when they have completed their assigned portion of the Work and are no longer involved in performance of construction activities.

**END OF SECTION**

## 1 GENERAL

### 1.01 REFERENCE STANDARDS

- .1 Project Management Institute (PMI Standards)
  - .1 A Guide to the Project Management Body of Knowledge (PMBOK Guide) - [Fifth Edition].
  - .2 Practice Standard for Scheduling - [2011].
- .2 AACE International Recommended Practice 37R-06 entitled, "Schedule Levels of Detail – As Applied in Engineering, Procurement and Construction".
- .3 Canadian Construction Documents Committee (CCDC)
  - .1 CCDC 2-2020, Stipulated Price Contract.

### 1.02 RELATED REQUIREMENTS

- .1 Section 01 32 00 – Construction Progress Documentation

### 1.03 DEFINITIONS

- .1 Activity: Distinct, scheduled portion of work performed during course of a project.
- .2 Activity Duration: time in calendar units between start and finish of a scheduled activity. See also Duration.
- .3 Assumption: factor in planning process that is considered true, real, or certain without proof or demonstration.
- .4 Bar Chart (Gantt Chart): graphic display of schedule-related information.
  - .1 In typical bar chart, schedule activities or work breakdown structure components are listed down left side of chart, dates are shown across the top, and activity durations are shown as date-placed horizontal bars.
- .5 Baseline: approved version of a work product that can be changed only through formal change control procedures and is used as a basis for comparison.
- .6 Budget: approved estimate for a project or work breakdown structure component or schedule activity.
- .7 Cash Flow: projection of progress payment requests based on cash loaded construction schedule.
- .8 Change Control: process whereby modifications to documents, deliverables, or baselines associated with a project are identified, documented, approved, or rejected.
- .9 Completion Milestones: they are firstly [Interim Certificate] [Substantial Completion] and secondly Final Certificate.
- .10 Constraint: scheduled limiting factor that effects execution of a project, program, portfolio, or process.

- .11 Contract: mutually binding agreement that obligates a seller to provide a specified product or service or result and obligates a buyer to pay for it.
- .12 Control: comparing actual performance with planned performance, analyzing variance, assessing trends, to effect process improvements, evaluating possible alternatives, and recommending appropriate corrective action as needed.
- .13 Corrective Action: intentional activity that realigns performance of project work with project management plan.
- .14 Critical Path: sequence of activities that represents longest path through a project, which determines shortest possible duration.
- .15 Critical Path Activity: activity on critical path in a project schedule.
- .16 Critical Path Method (CPM): method used to estimate minimum project duration and determine amount of scheduling flexibility on logical network of paths within schedule model.
- .17 Data Date: point in time when the status of the project is recorded.
- .18 Decomposition: technique used for dividing and subdividing project scope and project deliverables into smaller, more manageable parts.
- .19 Deliverable: unique and verifiable product, result, or capability to perform a service that is required to be produced to complete a process, phase, or project.
- .20 Duration: total number of work periods (not including holidays or other non-working periods) required to complete a schedule activity or work breakdown structure component.
  - .1 Usually expressed as workdays or work weeks.
- .21 Early Finish Date (EF): in Critical Path Method, earliest possible point in time when uncompleted portions of schedule activity can finish based on schedule network logic, data date, and schedule constraints.
  - .1 Early finish dates can change as Project progresses and changes are made to Project plan.
- .22 Early Start Date (ES): in Critical Path Method, earliest possible point in time when uncompleted portions of a schedule activity can start based on schedule network logic, data date, and schedule constraints.
  - .1 Early start dates can change as Project progresses and changes are made to Project Plan.
- .23 Execute: directing, managing, performing, and accomplishing project work; providing deliverables, and providing work performance information.
- .24 Finish Date: point in time associated with a schedule activity's completion.
  - .1 Usually qualified by one of following: actual, planned, estimated, scheduled, early, late, baseline, target, or current.
- .25 Float: (also known as slack) amount of time a schedule activity can be delayed without delaying early start date of a successor or violating a schedule constraint.
  - .1 This resource is available to both [PWGSC] and Contractor.

- .26 Forecast: estimate or prediction of conditions and events in project future based on information and knowledge available at time of forecast.
  - .1 Information is based on projects past performance and expected future performance, and includes information that could impact project in future, such as estimate at completion and estimate to complete.
- .27 Gantt Chart: see Bar Chart.
- .28 Impact Analysis: schedule analysis technique that adds a modeled delay to an accepted construction schedule to determined possible outcome of that delay on project completion.
- .29 Imposed Date: a fixed date imposed on a schedule activity or schedule milestone, usually in form of a “start no earlier than” and “finish no later than” date.
- .30 Lag: amount of time whereby a successor activity is required to be delayed with respect to a predecessor activity.
- .31 Late Finish Date (LF): in critical path method, latest possible point in time when uncompleted portions of a schedule activity can finish based on schedule network logic, project completion date, and schedule constraints.
- .32 Late Start Date (LS): in critical path method, latest possible point in time when uncompleted portions of a schedule activity can start based on schedule network logic, project completion date, and schedule constraints.
- .33 Lead: amount of time whereby a successor activity can be advanced with respect to a predecessor activity.
- .34 Logic Diagram: see Project network diagram.
- .35 Logical Relationship: dependency between two activities or between an activity and a milestone.
- .36 Master Schedule: summary-level schedule that identifies major deliverable; work breakdowns structure components, and key schedule milestones.
- .37 Milestone: significant point or event in a project, program, or portfolio.
- .38 Monitor: collect project performance data with respect to a plan, procedure performance measures, and report and disseminate performance.
- .39 Network: see Project Schedule Network Diagram.
- .40 Non-Critical Activities: activities which when delayed, do not affect specified Contract duration.
- .41 Project Control System: fully computerized system utilizing commercially available software packages.
- .42 Project Management: application of knowledge, skills, tools, and techniques, to project activities to meet project requirements.
- .43 Project Management Plan: approved document that describes how project will be executed, monitored, and controlled.
  - .1 Primary uses of Project Management Plan are to document planning assumptions and decisions, facilitate communication among stakeholders, and document approved scope,

cost, and schedule baselines.

- .2 Project Management Plan may be summary or detailed.
- .44 Project Management Planning: development and maintenance of Project Management Plan.
- .45 Project Management Planning, Monitoring and Control System: overall system operated to enable monitoring of Project Work in relation to established milestones.
- .46 Project Schedule: planned dates for performing activities and planned dates for meeting milestones.
- .47 Project Schedule Network Diagram: graphical representation of logical relationships among project schedule activities.
  - .1 Always drawn from left to right to reflect Project chronology.
- .48 Project Scope: work performed to deliver a product, service, or result with specified features and functions.
- .49 Quantified days duration: Working Days based on 5 day work week, discounting statutory holidays.
- .50 Risk: uncertain event or condition that, if it occurs, has positive or negative effect on one or more project objectives.
- .51 Schedule: see Project Schedule.
- .52 Schedule Data: collection of information for describing and controlling schedule.
- .53 Scope: see Project Scope.
- .54 Start Date: point in time associated with activity's start, usually qualified by one of following: actual, planned, estimated, scheduled, early, late, target, baseline, or current.
- .55 Work Breakdown Structure (WBS): hierarchical decomposition of total scope of work to be carried out by project team to accomplish project objectives and create the required deliverables.

**1.04 ADMINISTRATIVE REQUIREMENTS**

- .1 Scheduling:
  - .1 Ensure that planning process is iterative and results in generally top-down processing with more detail being developed as planning progresses, and decisions concerning options and alternatives are made.
  - .2 Ensure Construction Schedule efficiencies through monitoring of Project in detail to ensure integrity of Critical Path, by comparing actual completions of individual activities with their scheduled completions, and review progress of activities that has started but are not yet completed.
  - .3 Monitor sufficiently often so that causes of delays can immediately be identified and mitigated.
- .2 Project monitoring and reporting:

- .1 Keep team aware of changes to schedule, and potential consequences as Project progresses.
- .2 Use narrative reports to provide advice on seriousness of challenges and measures to overcome them.
- .3 Begin narrative reporting with statement on general status of Project followed by summarization of delays, potential problems, corrective measures and Project status criticality.
- .3 Critical Path Method (CPM) Requirements:
  - .1 Ensure Construction Schedule is practical and remains within specified Contract duration.
  - .2 Submit Construction Schedule for Acceptant. If rejected, as schedule is deemed impractical by Consultant, revise and resubmit, until Acceptance is achieved.
  - .3 Change to Contract Duration:
    - .1 .1 Acceptance of Construction Schedule showing scheduled Contract duration shorter than specified Contract duration does not constitute a change to Contract.
    - .2 .2 Duration of Contract may only be changed through bilateral Agreement.
  - .4 Consider the Construction Schedule deemed practical by the Consultant, showing Work completed in less than specified Contract duration, to have float.
  - .5 First Milestone on Construction Schedule will identify start Milestone with an Early Start, "ES", constraint date equal to Award of Contract date.
  - .6 Calculate dates for completion of milestones from plan and Schedule using specified time periods for Contract.
  - .7 Calculations on updates such that if early finish of Ready for Takeover falls later than specified Contract duration then float calculation to reflect negative float.
  - .8 Delays to non-critical activities with float may not be basis for time extension.
  - .9 Do not use float suppression techniques such as software constraints, preferential sequencing, special lead/lag logic restraints, extended activity times or imposed dates other than required by Contract Documents.
  - .10 Allow for adverse weather conditions normally anticipated and show in Construction Schedule.
    - .1 Specified Contract duration has been predicated assuming normal amount of adverse weather conditions appropriate for the location of the Work.
  - .11 Provide necessary crews and manpower to meet schedule requirements for performing Work within specified Contract duration.

.1 Simultaneous use of multiple crews on multiple fronts on multiple critical paths may be required.

.12 Arrange participation on and off site of Subcontractors and suppliers, as required by the Consultant, for purpose of network planning, scheduling, updating and progress monitoring.

.1 Acceptance by the Consultant of original networks and revisions do not relieve Contractor from duties and responsibilities required by Contract Documents.

### **1.05 ACTION AND INFORMATIONAL SUBMITTALS**

.1 Submit impact analysis of schedule for changes that result in extension of contract duration.

.1 Include draft Construction Schedule update and report as outlined in article "PROGRESS MONITORING AND REPORTING".

### **1.06 QUALITY ASSURANCE**

.1 Use experienced personnel, fully qualified in planning and scheduling to provide services from start of construction to Ready for Takeover, including Commissioning.

### **1.07 WORK BREAKDOWN STRUCTURE (WBS)**

.1 Prepare construction Work Breakdown Structure (WBS) within five (5) Working Days of contract award.

.1 Develop WBS through at least five levels: project, stage, element, sub-element and work package.

### **1.08 PROJECT MILESTONES**

.1 Contractor shall include appropriate Milestones in accordance with the scope contained in the Contract Documents. At minimum, Milestones should be included, by station, for Shop Drawing start and end, construction start and end, testing and commissioning start and end, Substantial Performance of the Work and Ready for Takeover.

### **1.9 DETAILED CONSTRUCTION SCHEDULE**

.1 Provide detailed project Construction Schedule (CPM logic driven) within ten (10) Working Days of Contract award date showing activity sequencing, interdependencies and duration estimates. In addition to the Milestones listed in 1.09.1, include listed activities as follows:

.1 Sequence for Shop Drawings.

.2 Samples.

- .3 Submittals and Consultant review period.
- .4 Procurement.
- .5 Construction.
  - .1 Site clearing.
  - .2 Site utilities.
  - .3 Foundation Work.
  - .4 Special Subcontractor Work.
  - .5 Equipment delivery and Installations.
  - .6 Finishes.
- .6 Installation.
- .7 Site works.
- .8 Testing.
- .9 Commissioning and Acceptance.
- .10 Line Closures and flagging
- .11 Any required permits
- .12 Installation of Protection of Finishings – Owner review prior to installation
- .2 Schedule should be Level 3, in form of a horizontal bar chart. “Level 3” means the level of detail required for a Project Control Schedule as set out in the AACE International Recommended Practice 37R-06 entitled, “Schedule Levels of Detail – As Applied in Engineering, Procurement and Construction”.
- .3 Detail CPM schedule to cover the activities in detail from Contract award date to Substantial Performance of the Work and Ready for Takeover.
- .4 Clearly show sequence and interdependence of construction activities and indicate:
  - .1 Start and completion of all items of Work, their major components, and interim milestone completion dates.
  - .2 Activities for procurement, delivery, installation and completion of each major piece of equipment, materials and other supplies, including:
    - .1 Time for Submittals, resubmittals and review.
    - .2 Time for fabrication and delivery of manufactured Products for Work.
    - .3 Delivery of Products Supplied by Others
    - .4 Interdependence of procurement and construction activities.

- .3 Include sufficient detail to assure adequate planning and execution of Work. Activities duration should be less than ten (10) Working Days.
- .6 Provide level of detail for Project activities such that sequence and interdependency of Contract Document tasks are demonstrated and allow co-ordination and control of Project activities. Show continuous flow from left to right.
- .7 Ensure activities with no float are calculated and clearly indicated on logical CPM construction network system as being, whenever possible, continuous series of activities throughout length of Project to form "Critical Path". Increased number of critical activities is seen as indication of increased risk.
- .8 Insert Change Orders in appropriate and logical location of Construction Schedule. After analysis, clearly state and report to Consultant for review effects created by insertion of new Change Order.

**1.10 REVIEW OF CONSTRUCTION DETAIL SCHEDULE**

- .1 Submit Construction Schedule in accordance with 01 32 00 Construction Progress Documentation.
- .2 Submittal of Construction Schedule indicates that it meets Contract Document requirements and will be executed generally in sequence.

**1.11 COMPLIANCE WITH DETAIL SCHEDULE**

- .1 Comply with Accepted Construction Schedule.
- .2 Proceed with significant changes and deviations from scheduled sequence of activities that cause delay, only after written receipt of Acceptance by Consultant.
- .3 Identify activities that are behind schedule and causing delay. Provide measures to regain slippage.
  - .1 Corrective measures may include:
    - .1 Increase of personnel with more experience/qualifications on site for effected activities or work package.
    - .2 Increase in materials and equipment.
    - .3 Overtime work and additional work shifts.
- .4 Submit to Consultant, justification, Construction Schedule data and supporting evidence for approval of extension to Contract completion date or interim milestone date when required. As part of supporting evidence, include:
  - .1 Written submission of proof of delay based on revised activity logic, duration and costs, showing time impact analysis illustrating influence of each change or delay relative to approved Construction Schedule.

- .2 Prepared schedule indicating how change will be incorporated into overall logic diagram. Demonstrate perceived impact based on date of occurrence of change and include status of construction at that time.
- .3 Other supporting evidence requested by Owner and Consultant.
- .4 Do not assume approval of Contract extension prior to receipt of written Acceptance from Owner.
- .5 In event of Contract extension, display in Construction Schedule that scheduled float time available for Work involved has been used in full without jeopardizing earned float.
  - .1 Consultant will determine and advise Contractor number of allowable days for extension of Contract based on Construction Schedule updates for period in question, and other factual information.
  - .2 Construction delays affecting Construction Schedule will not constitute justification for extension of the Ready for Takeover date.

#### 1.12 PROGRESS AND REPORTING

- .1 On an ongoing basis, the Contractor shall keep the Construction Schedule on job site to show "Progress to Date". Arrange participation on and off site of Subcontractors and suppliers, as, and when necessary, for purpose of network planning, scheduling, updating and progress monitoring. Inspect Work with Consultant and or Owner at least once monthly to establish progress on each current activity shown on applicable networks.
- .2 Update and reissue project Work Breakdown Structure and relevant coding structures as project develops and changes.
- .3 Perform Construction Schedule update monthly with status dated (Data Date) on last date of month. Update to reflect activities completed to date, activities in progress, logic and duration changes.
- .4 Do not automatically update actual start and finish dates by using default mechanisms found in project management software.
- .5 Submit to Consultant copies of updated Construction Schedule.
- .6 Requirements for monthly progress monitoring and reporting are basis for progress payment request.
- .7 As part of the monthly progress report, in accordance with 01 32 00 – Construction Progress Documentation, include a written report based on the updated Construction Schedule, showing Work performed to date, comparing Work progress to planned, and presenting current forecasts. Report summarize progress, defining problem areas and anticipated delays with respect to Work schedule, and critical paths. Explain alternatives for possible schedule recovery to mitigate potential delay. Include in report:
  - .1 Description of progress made.

- .2 Pending items and status of: permits, Shop Drawings, Change Orders, possible time extensions.
- .3 Status of Contract Ready for Takeover and Milestones.
- .4 Current and anticipated problem areas, potential delays and corrective measures.
- .5 Review of progress and status of Critical Path activities.

**END OF SECTION**

## **1 GENERAL**

### **1.01 REFERENCE STANDARDS**

- .1 Canadian Construction Documents Committee (CCDC)
  - .1 CCDC 2-2020, Stipulated Price Contract.

### **1.02 MEASUREMENT AND PAYMENT**

- .2 Separate measurement or payment will not be made for Work required under this section. All costs in connection with the Work specified herein will be considered to be included with the related item of Work or incidental to the Work.

### **1.03 FREQUENCY OF PHOTOGRAPHIC DOCUMENTATION**

- .1 The Contractor shall take photographs as indicated in Specification sections, at all construction milestones as identified in the Accepted Construction Schedule, and at each of the following stages of construction:
  - .1 Before commencement of clearing and demolition;
  - .2 Upon completion of clearing and demolition;
  - .3 Upon completion of excavation
  - .4 Upon completion of foundation and concrete work.
  - .5 Delivery and installation of Structural steel.
  - .6 Building Envelope Construction (roof, walls, doors, windows, etc.)
  - .7 Upon completion of any remedial Work.
  - .8 Upon completion of the Work.
  - .9 Anytime a problem arises that may result in a potential claim and the problem can be illustrated by photographs.
- .2 Furnish at least three different views or vantage points of each milestone and stage of construction. Furnish an average of 20 photographs each month until completion of the Work. Location of views shall be as agreed with the Consultant.
- .3 Contractor shall take photos at each shift and include photos in the daily report in accordance with section 01 32 00-Construction Progress Documentation.
- .4 Submit photos to the Consultant with the monthly progress reports in accordance with section 01 32 00-Construction Progress Documentation and other reports in accordance with Specification sections and Contract Documents.
- .5 Transfer photos to the Owner at the end of the Project.

### **1.04 QUALITY AND QUANTITY OF PHOTOGRAPHS**

- .1 All photographs shall be digital photographs in pdf, jpg or png format with the following requirements:
  - .1 Minimum resolution: 1024 x 768 pixels.

- .2 Colors: 24 Bits per Pixel.
- .3 Maximum File size of 3MB.
  
- .2 Digital photographs provided shall use the following file naming convention:
  - PYYMMDDLOCATIONSEQ.EXT
  - P = Photograph
  - YYMMDD = Date in Year, Month, Day format
  - LOCATION = (8 Characters maximum) Location taken, either by BART 3-character alpha numeric + 5, or Milepost by line designation. (e.g. M90, C40-west, A1MP32-1, etc.)
  - SEQ = Sequential number from 001 to 999.
  - EXT = File extension (e.g. pdf, jpg, or png).
- .3 If flash drives are used to store photos they shall be labeled to include the Contract number and the date the photographs were taken.

**1.05 IDENTIFICATION OF PHOTOGRAPHS**

- .1 The following information shall be furnished for each digital photograph in a manner approved by the Owner.
  - .1 Title of Contract and Contract Number;
  - .2 Site location.
  - .3 Identification of subject shown;
  - .4 Station point of camera and direction of view;
  - .5 Time and date taken.

**1.06 VIDEO RECORDINGS**

- .1 The Contractor shall provide video recordings to supplement Contract photographs of certain construction milestones as identified in the Accepted Construction Schedule, and events as indicated herein:
  - .1 Start of construction, including clearing and demolition operations, as applicable;
  - .2 Highlights of all formal inspections; and
  - .3 Highlights of the final inspection and acceptance by the Owner and Consultant and Authority having jurisdiction.
  - .4 Video recordings shall be at minimum standard definition (480p).
- .2 Video recordings shall include an unobtrusive time and date indicator on the film, accurately depicting the time and date when the photography was performed.
- .3 If flash drives are used to store videos they shall be labeled to include the Contract number and the date the video was taken.
- .4 Individual digital video files shall use the file naming convention indicated above, paragraph 1.03.2, however the filename shall be modified such that the first character shall be "V" for video instead of "P".

END OF SECTION

## **1 GENERAL**

### **1.01 REFERENCE STANDARDS**

- .1 Canadian Construction Documents Committee (CCDC)
  - .1 CCDC 2-2020, Stipulated Price Contract.

### **1.02 RELATED REQUIREMENTS**

- .1 Section 01 32 33 – Photographic Documentation
- .2 Section 01 43 00 - Quality Assurance.

### **1.03 ADMINISTRATIVE REQUIREMENTS**

- .1 Submit to the Consultant Submittals listed in Specifications for review and Acceptance. Submit promptly and in orderly sequence to not cause delay in Work. Failure to submit in ample time is not considered sufficient reason for extension of Contract Time and no claim for extension by reason of such default will be allowed.
- .2 Do not proceed with Work affected by Submittal until review is complete and Acceptance has been provided.
- .3 Present Shop Drawings, Product data, samples and mock-ups in SI Metric units.
- .4 Where items or information is not produced in SI Metric units converted values are acceptable.
- .5 Review Submittals before submission to the Consultant. Stamp Submittals as “Approved by Contractor” prior to submitting to the Consultant. This review represents that necessary requirements have been determined and verified, or will be, and that each Submittal has been checked and coordinated with requirements of Work and Contract Documents and Contractors own quality procedures. Submittals not stamped, signed, dated and identified as to specific Project will be returned without being examined and considered rejected.
- .6 Notify the Consultant, in writing at time of submission, identifying deviations from requirements of Contract Documents stating reasons for deviations.
- .7 Verify site measurements and affected adjacent Work are coordinated.
- .8 Keep one Accepted copy of each Submittal on site.

### **1.04 SHOP DRAWINGS, PRODUCT DATA AND OTHER SUBMITTALS**

- .1 Refer to CCDC 2 GC 3.8 Shop Drawings and Supplementary General Conditions.
- .2 Refer to Specifications for all other required Submittals.
- .3 Submit for review and Acceptance Shop Drawings stamped and signed by professional engineer licensed in Province of Ontario, Canada.
- .4 Indicate materials, methods of construction and attachment or anchorage, erection diagrams, connections, explanatory notes and other information necessary for completion of Work. Where articles or equipment attach or connect to other articles or equipment, indicate that such items have been coordinated, regardless of Section under which adjacent items will be supplied and

- installed. Indicate cross references to Contract Drawings and Specifications.
- .5 Allow ten (10) Working Days for Consultant review of each Submittal, unless otherwise specified.
  - .6 Adjustments requested on Shop Drawings by the Consultant are not intended to change Contract Price. If adjustments affect value of Work, state such in writing to the Consultant and do not proceed with Work. Such adjustment shall be approved by a Change Directive or Change Order issued by the Owner in accordance with the Contract Documents.
  - .7 Make changes in Shop Drawings as the Consultant may require, consistent with Contract Documents. When resubmitting, notify the Consultant in writing of revisions other than those requested.
  - .8 Accompany Submittals with transmittal letter containing:
    - .1 Date.
    - .2 Project title and number.
    - .3 Contractor's name and address.
    - .4 Identification and quantity of each Shop Drawing, Product data, and sample.
    - .5 Other pertinent data.
  - .9 Submittals to include:
    - .1 Date and revision dates.
    - .2 Project title and number.
    - .3 Name and address of:
      - .1 Subcontractor.
      - .2 Supplier.
      - .3 Manufacturer.
    - .4 Contractor's stamp, signed by Contractor's authorized representative certifying approval of submissions, verification of site measurements and compliance with Contract Documents.
    - .5 Details of appropriate portions of Work as applicable:
      - .1 Fabrication.
      - .2 Layout, showing dimensions, including identified site dimensions and clearances.
      - .3 Setting or erection details.
      - .4 Capacities.
      - .5 Performance characteristics.
      - .6 Standards.
      - .7 Operating weight.
      - .8 Wiring diagrams.
      - .9 Single line and schematic diagrams.

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- .10 Material being supplied, all connections, attachments, anchorages and locations of exposed fastenings as applicable.
  - .11 Typical and special installation conditions, including setting or erection details.
  - .12 Relationship to adjacent work.
  - .13 Copy of associated Project warranty.
- .10 After the Consultant review and Acceptance, distribute copies.
  - .11 Submit electronic copy of Shop Drawings for requirements requested in Specifications and as the Consultant may reasonably request. Submit electronic copies of Product data sheets or brochures for requirements requested in Specifications and as requested by the Consultant where Shop Drawings will not be prepared due to standardized manufacture of Product.
    - .1 Product data: manufacturers' catalogue sheets, MSDS sheets, brochures, literature, performance charts and diagrams used to illustrate standard manufactured products or any other specified information.
    - .2 Delete information not applicable to Project.
    - .3 Supplement standard information to provide details applicable to Project.
    - .4 Cross-reference Product data information to applicable portions of Contract Documents.
  - .12 Submit electronic copies of test reports for requirements requested in Specifications and as requested by the Consultant.
    - .1 Report signed by authorized official of testing laboratory that material, Product or system identical to material, Product or system to be provided has been tested in accord with specified requirements.
  - .13 Submit electronic copies of certificates for requirements requested in Specifications and as requested by the Consultant.
    - .1 Statements printed on manufacturer's letterhead and signed by responsible officials of manufacturer of Product, system or material attesting that product, system or material meets Specification requirements.
    - .2 Certificates must be dated after the award of the Contract, complete with the Project name.
  - .14 Submit electronic copies of manufacturers' instructions for requirements requested in Specifications and as requested by the Consultant.
    - .1 Pre-printed material describing installation of Product, system or material, including special notices and Safety Data Sheets concerning impedances, hazards and safety precautions.
  - .15 Submit electronic copies of manufacturer's site reports for requirements requested in Specifications and as requested by the Consultant.
    - .1 Material describing installation of Product, system or material, including special notices and Material Safety Data Sheets concerning impedances, hazards and safety precautions.
  - .16 Documentation of the testing and verification actions taken by manufacturer's representative to confirm compliance with manufacturer's standards or instructions.

- .17 Submit electronic copies of Operation and Maintenance Data for requirements requested in Specifications and as requested by Owner, after a review of an electronic copy has been completed and Accepted by the Consultant.
  - .1 Submit four (04) hard copies, unless otherwise specified, of reviewed and Accepted Operation and Maintenance Data.
- .18 Delete information not applicable to Project.
- .19 Supplement standard information to provide details applicable to Project.
- .20 If upon review by the Consultant, no major corrections are requested, electronic copies will be returned as Accepted or Accepted with comments (in the case of minor corrections) and fabrication and installation of Work may proceed. Requested minor corrections shall be made in a timely manner. If Shop Drawings are rejected, noted copy will be returned and resubmission of corrected Shop Drawings for review and Acceptance, through same procedure indicated above, must be performed before fabrication and installation of Work may proceed.
- .21 Acceptance of the Shop Drawings does not mean confirmation that the Submittal does not include errors or omissions, defects or deficiencies.

#### **1.05 SAMPLES**

- .1 Submit for review and Acceptance samples in duplicate as requested in respective Specifications. Label samples with origin and intended use.
- .2 Deliver samples prepaid to the Consultant at the address provided during the Pre-Construction Meeting.
- .3 Notify the Consultant in writing at the time of submission of deviations in samples from the requirements of Contract Documents. Deviations may be rejected and the Contractor shall resubmit either a sample compliant with the Contract Documents or an alternative sample with written deviations.
- .4 Where colour, pattern or texture is criterion, submit full range of samples.
- .5 Adjustments made on samples by the Owner or the Consultant are not intended to change Contract Price. If adjustments affect value of Work, state such in writing to the Consultant and do not proceed with Work. Such adjustment shall be approved by a Change Directive or Change Order issued by the Owner.
- .6 Make changes in samples which the Consultant may require, consistent with Contract Documents.
- .7 Reviewed and Accepted samples will become standard of workmanship and material against which installed Work will be verified.

#### **1.06 MOCK-UPS**

- .1 Erect mock-ups in accordance with section 01 43 00 - Quality Assurance.

#### **1.07 PHOTOGRAPHIC DOCUMENTATION**

- .1 Submit electronic colour digital photography in accordance with section 01 32 33 –

Photographic Documentation, Contract Documents, and as directed by the Consultant.

- .2 Provide photographs in the requested format to demonstrate progress and how deficient items identified within the Consultant review and inspection reports have been corrected.

**END OF SECTION**

## 1 GENERAL

### 1.01 REFERENCE STANDARDS

- .1 Canada Labour Code, Part 2, Canada Occupational Safety and Health Regulations
  - .1 R.S.C., 1985, c. L-2
- .2 Province of Ontario
  - .1 Occupational Health and Safety Act and Regulations for Construction Projects, R.S.O. [1990, c.0.1, as amended and O. Reg. 213/91 as amended] - Updated August 8, 2023.
- .3 National Building Code of Canada (NBC):
  - .1 Part 8, Safety Measures at Construction and Demolition Sites.
- .4 The Canadian Electric Code (as amended)
- .5 Canadian Standards Association (CSA) as amended:
  - .1 CSA Z797-2009 Code of Practice for Access Scaffold.
  - .2 CSA S350-M1980 (R2003) Code of Practice for Safety in Demolition of Structures.
  - .3 CSA Z462- Workplace Electrical Safety Standard.
- .6 National Fire Code of Canada 2015 (as amended)
  - .1 Part 5 – Hazardous Processes and Operations and Division B as applicable and required.
- .7 American National Standards Institute (ANSI):
  - .1 ANSI A10.3, Operations – Safety Requirements for Powder-Actuated Fastening Systems.
- .8 Canadian Construction Documents Committee (CCDC)
  - .1 CCDC 2-2020, Stipulated Price Contract.

### 1.02 RELATED REQUIREMENTS

- .1 Section 01 31 19 – Project Meetings
- .2 Section 01 33 00 - Submittal Procedures
- .3 Section 01 35 43 – Fire Safety Requirements
- .4 Section 01 35 43 - Environmental Procedures
- .5 Section 01 51 00 - Temporary Utilities

- .6 Section 01 56 00 - Temporary Barriers and Enclosures
- .7 ONTC Contractor Subcontractor Policy.
- .8 ONTC HOT WORK Program.
- .9 ONTC Electrical Safety Policy.

### **1.03 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit for Acceptance Project-specific Health and Safety Plan within seven (7) Working Days after Contract award and fifteen (15) Working Days prior to commencement of Work on site. Health and Safety Plan must include:
  - .1 Results of site-specific safety hazard assessment.
  - .2 Results of safety and health risk or hazard analysis for site tasks and operation found in work plan.
  - .3 Emergency Procedures.
- .3 The Consultant's review and Acceptance of Contractor's final Health and Safety plan should not be construed as approval and does not reduce the Contractor's overall responsibility for construction Health and Safety.
- .4 Submit electronic copies of Contractor's authorized representative's work site health and safety inspection reports to the Owner and the Consultant, and Authority Having Jurisdiction (AHJ) when required.
- .5 Submit to the Owner and the Consultant copies of reports or directions issued by health and safety inspectors of the Authority Having Jurisdiction (AHJ).
- .6 Submit to the Owner and the Consultant electronic copies of incident and accident reports.
- .7 Submit to the Consultant WHMIS Safety Data Sheets (SDS) and all other documentation required by Workplace Hazardous Materials Information System (WHMIS) requirements. Include and update the Health and Safety Plan as required.
- .8 Medical Surveillance: where prescribed by legislation, regulation or safety program, submit to the Consultant certification of medical surveillance for site personnel prior to commencement of Work, and submit additional certifications for any new site personnel.
- .9 On-site Contingency and Emergency Response Plan: address standard operating procedures to be implemented during emergency situations.

### **1.04 FILING OF NOTICE**

- .1 File Notice of Project with Provincial authorities prior to beginning of Work.
- .2 Provide copies of all notices to the Consultant.

- .3 Contractor shall agree to install proper site separation and identification in order to maintain time and space at all times throughout life of Project.

### 1.05 SAFETY ASSESSMENT

- .1 Conduct a site-specific hazard assessment based on review of Contract Documents, required Work, and Project site. Identify any known and potential health risks and safety hazards.
- .2 Develop written site-specific Health and Safety Plan based on hazard assessment prior to beginning site Work and continue to implement, maintain, and enforce plan until final demobilization from site. Health and Safety Plan must address project specifications and , include, but not be limited to, the following:
  - .1 Primary requirements:
    - .1 Contractor's and ONTC safety policy.
    - .2 Identification of applicable compliance obligations.
    - .3 Definition of responsibilities for Project safety; include an organization chart for Project with safety responsibilities clearly indicated.
    - .4 General safety rules for Project.
    - .5 Job-specific safe work procedures.
    - .6 Inspection policy and procedures.
    - .7 Incident reporting and investigation policy and procedures.
    - .8 Occupational Health and Safety Committee/Representative procedures.
    - .9 Occupational Health and Safety meetings.
    - .10 Occupational Health and Safety communications and record keeping procedures.
  - .2 Summary of health risks and safety hazards resulting from analysis of hazard assessment, with respect to site tasks and operations which must be performed as part of the Work.
  - .3 List hazardous materials to be brought on site as required by Work.
  - .4 Indicate engineering and administrative control measures to be implemented at the Place of Work for managing identified risks and hazards.
  - .5 Identify personal protective equipment (PPE) to be used by workers.
  - .6 Identify personnel and alternates responsible for site safety and health.
  - .7 Identify personnel training requirements and training plan, including site orientation for new workers.

- .3 Develop the plan in collaboration with all Subcontractors. Ensure that work/activities of Subcontractors are included in the hazard assessment and are reflected in the plan.
- .4 Revise and update Health and Safety Plan as required, and re-submit for Acceptance in accordance with 01 33 00 – Submittal Procedures
- .5 Review and Acceptance: the review and Acceptance of site-specific Health and Safety Plan shall not relieve the Contractor of responsibility for errors or omissions in final site-specific Health and Safety Plan or of responsibility for meeting all requirements of construction and Contract Documents.

#### **1.06 MEETINGS**

- .1 Schedule and administer Health and Safety meeting with the Owner and the Consultant prior to commencement of Work. This meeting shall be included in the Pre-construction Meeting.
- .2 Attend all subsequent Health and Safety meetings called by the Owner or the Consultant.

#### **1.07 REGULATORY REQUIREMENTS**

- .1 Conduct the Work in accordance with Section 01 41 00 - Regulatory Requirements.

#### **1.08 PROJECT/SITE CONDITIONS**

- .1 Work at site may involve contact with:
  - .1 Public.
  - .2 ONTC employees.
  - .3 Other contractors and consultants.
  - .4 Third Party Property Owner.
- .2 The Contractor is solely responsible for all utility detection and clearances prior to starting the Work.
- .3 The Contractor will not rely solely upon the Drawings or other information provided for utility locations.
- .4 Carry out any activities involving asbestos in accordance with applicable Provincial / Federal Regulations.
- .5 Removal and handling of asbestos will be in accordance with applicable Provincial / Federal Regulations.
- .6 Refer to reports in Attachment 1 to the Specifications for further site conditions and assessment reports for any noted hazardous or contaminated materials or substances present at Place of the Work. Contractor should their own assessments prior to commencing Work.

### 1.09 GENERAL REQUIREMENTS

- .1 In accordance with 01 56 00 – Temporary Barriers and Enclosures, provide safety barricades and lights around work site as required to provide a safe working environment for workers and protection for pedestrian and vehicular traffic.
- .2 Ensure that non-authorized persons are not allowed to circulate in designated construction areas of the work site.
  - .1 Provide appropriate means by use of barricades, fences, warning signs, traffic control personnel, and temporary lighting as required.

### 1.10 RESPONSIBILITY

- .3 Be responsible for health and safety of persons on site, safety of property on site and for protection of persons adjacent to site and environment to extent that they may be affected by conduct of Work.
- .4 Contractor will be responsible and **assume the role of Constructor** as described in the Ontario Occupational Health and Safety Act and Regulations for Construction Projects.
- .5 Comply with and enforce compliance by employees with safety requirements of Contract Documents, applicable federal, provincial, territorial and local statutes, regulations, and ordinances, and with site-specific Health and Safety Plan.
- .6 Provide first aid, hygiene, and medical facilities at the Place of the Work in accordance with requirements of provincial and local governmental occupational health, safety, and workers' compensation statutes, public health guidance publications (where warranted) and Contract Documents.

### 1.11 COMPLIANCE REQUIREMENTS

- .1 Comply with Ontario Occupational Health and Safety Act, R.S.O. 1990, c. 0.1 and Ontario Regulations for Construction Projects, O. Reg. 213/91.
- .2 Comply with all Federal and Provincial laws relating to Health and Safety including Acts and Regulations as well as Lower Tier Municipality By-Laws.
- .3 Comply with all applicable industry safety standards.
- .4 Comply with legislative requirements for work performed including, but not limited to:
  - .1 Qualifications of workers;
  - .2 Training;
  - .3 Supervision, and;
  - .4 Use of onsite equipment.
- .5 Provide any and all personal protective equipment for Contractor's own workers where prescribed by legislation.

**1.12 UNFORSEEN HAZARDS**

- .1 Should any unforeseen or peculiar safety-related factor, hazard or condition become evident during performance of the work, immediately stop work and advise Contractor's nominated Health and Safety Coordinator and follow procedures in accordance with Acts and Regulations of Province having jurisdiction and advise the Consultant verbally and in writing.

**1.13 CONTRACTOR HEALTH AND SAFETY CO-ORDINATOR**

- .1 Employ and assign to Work, competent and authorized representative as Health and Safety Coordinator. Health and Safety Coordinator must:
  - .1 Be responsible for completing Contractor's Health and Safety Training Sessions and ensuring that personnel that do not successfully complete required training are not permitted to enter site to perform Work.
  - .2 Maintain a training record/log of Contractor employee including all Subcontractors, suppliers and other parties retained by the Contractor for the execution of the Work, at the jobsite and electronic copy, available for the Owner and the Consultant review at request.
  - .3 Be responsible for implementing, revising, enforcing daily and monitoring site-specific Contractor's site-specific Health and Safety Plan.
  - .4 Visit each Place of the Work regularly, at least biweekly or as required by health and safety laws and regulations, to ensure Work is being completed in compliance with Contractor's Health and Safety programs and all applicable laws and regulations.
- .2 Contractor's nominated site supervisor may complete some of daily tasks of the Health and Safety Coordinator provided the site supervisor has the proper qualifications to complete those tasks.

**1.14 POSTING OF DOCUMENTS**

- .1 Ensure applicable items, articles, notices and orders are posted in conspicuous location on site in accordance with Acts and Regulations of Ontario having jurisdiction, and in consultation with the Consultant.
- .2 Post legible versions of the following documents on site:
  - .5 Site Specific Health and Safety Plan.
  - .6 Sequence of work.
  - .7 Emergency procedures.
  - .8 Site drawing showing Project layout, locations of the first-aid station, marshalling stations, and emergency transportation provisions.
  - .9 Notice of Project.
  - .10 Site plans.

- .11 Notice as to where a copy of the Workers' Compensation Act and Regulations is available on the work site for review by employees and workers.
- .12 Workplace Hazardous Materials Information System (WHMIS) documents.
- .13 WHMIS Safety Data Sheets (SDS).
- .14 List of names of Joint Health and Safety Committee members, or Health and Safety Representative, as applicable.
- .15 Others as required.

#### **1.15 CORRECTION OF NON-COMPLIANCE**

- .1 Immediately address health and safety non-compliance issues identified by Authority Having Jurisdiction (AHJ), the Consultant or by Owner.
- .2 Provide the Consultant with written report of action taken to correct non-compliance of health and safety issues identified.
- .3 The Owner or the Consultant may stop Work if non-compliance of health and safety regulations is not corrected. The Contractor/Subcontractors will be responsible for any costs arising from such a "stop work order".

#### **1.16 BLASTING**

- .1 Blasting or other use of explosives is not permitted without prior receipt of written instruction by the Owner.

#### **1.17 POWDER ACTUATED DEVICES**

- .1 Use powder-actuated devices only after receipt of written permission from Owner.

#### **1.18 ELECTRICAL SAFETY REQUIREMENTS**

- .1 Comply with authorities and ensure that, when installing new facilities or modifying existing facilities, all electrical personnel are completely familiar with existing and new electrical circuits and equipment and their operation.
- .2 Before undertaking any Work, coordinate required energizing and de-energizing of new and existing circuits with the Owner.
- .3 Maintain electrical safety procedures and take necessary precautions to ensure safety of all personnel working under this Contract, as well as safety of other personnel on site.

#### **1.19 ELECTRICAL LOCKOUT**

- .1 Develop, implement and enforce use of established procedures to provide electrical lockout and to ensure the health and safety of workers for every event where work must be done on any electrical circuit or facility.
- .2 Prepare the lockout procedures in writing, listing step-by-step processes to be followed by workers,

including how to prepare and issue the request/authorization form. Have procedures available for review upon request by the Owner or the Consultant.

- .3 Keep the documents and lockout tags at the site and list in a logbook for the full duration of the Contract. Upon request, make such data available for viewing by the Owner, the Consultant or by any authorized safety representative.

#### **1.20 HOT WORK:**

- .1 Hot Work Permit will be required; Contractor must notify the Consultant five (5) Working Days in advance prior to any hot work activities and provide, for review, a completed Hot Work permit form including a plan to mitigate any risks identified by the Contractor in their job hazard analysis. Hot Work shall proceed only after receiving the Owner's approval.

#### **1.21 SILICA**

- .1 Preventive measures to apply to the work site:
  - .1 Source reduction methods
    - .1 Work in wet environment or use tools with inflow of water in order to reduce dustiness, if not, collect dust at the source and retain it with a high efficiency filter not to propagate dust in the environment.
    - .2 Clean surfaces and tools with water, never with compressed air.
    - .3 Sand and pickle surfaces by using an abrasive containing less than 1 % of silica.
    - .4 When required, install shields or other containment device to prevent silica dust from migrating toward other workers or the public.
  - .2 Protection: Wear respiratory protection equipment (mask) during all operations that could generate silica dust.

#### **1.22 WORK STOPPAGE**

- .1 Give precedence to safety and health of public and site personnel and protection of environment over cost and schedule considerations for Work.

**END OF SECTION**

**1 GENERAL****1.01 REFERENCE STANDARDS**

- .1 Canadian Construction Documents Committee (CCDC)
  - .1 CCDC 2-2020, Stipulated Price Contract.

**1.02 SUMMARY**

- .1 The Work of this Section includes, but is not limited to the following:
  - .1 Hazardous Substances
  - .2 Environmental Protection
  - .3 Archaeology and Cultural Heritage
  - .4 Excess Soil Management
  - .5 Other Environmental Matters

**1.03 GENERAL REQUIREMENTS**

- .1 Assume responsibility for the protection of the environment and the preservation of public health, in the course of and as affected by the Work of the Contract, in accordance with specified requirements and Environmental Laws, ordinances, rules, regulations, codes and orders of the authorities that have regulatory oversight of or authority over the Work ("Authorities having Jurisdiction")
- .2 Give required notices and follow procedures set out by Authorities having Jurisdiction (AHJ) when working adjacent to or in waterways.
- .3 Give required notices and follow procedures set out by Authorities having Jurisdiction when handling or encountering hazardous, toxic, controlled substances (hereinafter referred to as hazardous substances).
- .4 The following conditions shall be regarded as a hazard to the environment, requiring appropriate action within the scope of this Section:
  - .1 Presence of friable asbestos.
  - .2 Presence of abandoned or disused equipment such as fuel tanks, PCB containing equipment and materials (including in-ground hydraulic hoists), batteries, septic tanks, grease / oil interceptors.
  - .3 Erosion, sedimentation and general disturbance of ecosystems.
  - .4 Other conditions identified by environmental jurisdictional authorities.
  - .5 Designated Substances and Hazardous Substance

**1.04 DEFINITIONS**

- .1 "Canadian Environmental Protection Act, 1999 (Canada)" means the Canadian Environmental Protection Act, 1999, S.C. 1999, c. 33, as amended from time to time;
- .2 "Designated Substances and Hazardous Substance" includes,
  - .1 a Hazardous Substance;
  - .2 those substances identified by Ontario Regulation 490/09 and Ontario Regulation 278/05 as amended, under the Occupational Health and Safety Act (Ontario);
  - .3 those substances identified and regulated under Part X Hazardous Substances, Can. Regulation 86-304, Canadian Occupational Health

- and Safety Regulations;
- .4 substances that are identified as falling under identified categories as part of the Workplace Hazardous Materials Information System (WHMIS) or GHS for Hazardous Substances under provincial or federal occupational health and safety legislation;
  - .5 polychlorinated biphenyls as identified in Ontario Regulation 362, as amended under the Environmental Protection Act (Ontario) and the PCB Regulations (SOR/2008-273), as amended, adopted under the Canadian Environmental Protection Act, 1999 (Canada); and
  - .6 mould, acrylonitrile, arsenic, asbestos (including asbestos-containing materials), benzene, coke oven emissions, ethylene oxide, isocyanates, lead, mercury, silica, and vinyl chloride;
- .3 “Discharge” means any spill, release, discharge, emission, spraying, injection, inoculation, abandonment, deposit, leak, seep, pour, emptying, throwing, dumping, placing and exhaust to the environment of any solid, liquid, gas, odour, heat, sound, vibration, radiation or combination thereof, either directly or indirectly from human activities that causes or may cause an adverse effect on the environment, or that has not been authorized by the applicable Environmental Approvals;
  - .4 “Environmental Approvals” means any permit, certificate, registration, license, approval, ruling, variance, exemption or similar requirement relating to environmental matters or other authorization required under Environmental Laws;
  - .5 “Environmental Consultant” means a reputable, qualified and experienced environmental consulting or engineering firm employing individuals that has been retained by the Contractor to provide technical expertise and guidance to the Contractor on all the Contractor environmental obligations, the Environmental Approvals and all other environmental obligations and matters, including monitoring, managing and addressing soil and groundwater impacts and occupational health and safety;
  - .6 “Environmental Laws” means:
    - .1 all federal laws, statutes, by-laws, rules, regulations, orders, ordinances or other requirements having the force of law relating to the protection of the environment or wildlife, natural or cultural resources, archeological and heritage sites, human health or safety, or Hazardous Substances;
    - .2 all provincial regional and municipal laws, statutes, by-laws, rules, regulations, orders, ordinances or other requirements having the force of law relating to the protection of the environment or wildlife, natural or cultural resources, archeological and heritage sites, human health or safety, or Hazardous Substances.
  - .7 “Environmental Protection Act (Ontario)” means the Environmental Protection Act, R.S.O. 1990, c. E. 19, as amended from time to time;
  - .8 “Hazardous Waste” means a “hazardous waste” as such term is defined pursuant to R.R.O 1990, Regulation 347;
  - .9 “MECP” means the Ontario Ministry of the Environment and Conservation and Parks, and any successor ministry thereto;
  - .10 “Ontario Water Resources Act (Ontario)” means the Ontario Water Resources Act, R.S.O. c. O.40, as amended from time to time;
  - .11 “Qualified Person”, as defined in O. Reg. 153/04, as amended
  - .12 “Spill” means, for the purposes of this Project and notwithstanding any less stringent definition under Environmental Laws, a Discharge that,

- .1 arises, either directly or indirectly, from human activities; and
  - .2 causes or may cause an adverse effect on the environment.
- .13 “Soil with Environmental Contaminants” means soil or sediment that is considered to be contaminated, i.e., if the quality exceeds the applicable Ministry of the Environment, Conservation and Parks (MECP) Generic Site Condition Standards at the Site for use under Part XV.1 of the Environmental Protection Act (Ontario) (O. Reg. 153/04) or site-specific standards approved by MECP.
- .14 “Substances Posing Significant Hazard” means any biological, chemical or physical agent or combination thereof to which exposure of a worker is prohibited, regulated, restricted, limited or controlled by the occupational health and safety enforcement agency of the province/ territory where the Work is to be performed. Should no such provisions be in place in the province/territory where the Work is to be performed, the following substances shall be considered as “Substances Posing Significant Hazard”: Asbestos, Silica, Mercury, Lead, Arsenic, Acrylonitrile, Benzene, and Isocyanates.”

**1.05 HAZARDOUS SUBSTANCES**

- .1 Submit documentation to the Consultant to show that all Subcontractors have been provided with lists of the Substances Posing Significant Hazard on site. This list must include the name of the substances indicated by the Owner to be on site and any such substance to be used or produced by the Contractor or subcontractors on site during the life of the Work.
- .2 Procedures:
  - .1 Known Conditions: Follow specified requirements in Contract Documents. Review existing site conditions and identify, in writing, to the Consultant, any conditions that differ materially from those indicated in the Contract Documents.
  - .2 Unknown Conditions: Should an environmentally hazardous condition or a contaminated area be discovered, quarantine the area affected and do no Work that will disturb the hazardous material or contaminated area.

Notify the Consultant immediately of the situation verbally and in writing. Conform to Environmental Law.
- .3 Hazardous Substances Disposal:
  - .1 Dispose of hazardous substances in accordance with Environmental Laws.
  - .2 Do not under any circumstances, dispose of hazardous substances by burning or burying on site or by discharging into the soil, waterways or drainage system.

**1.06 ENVIRONMENTAL PROTECTION**

- .1 Erosion and Sediment Control:
  - .1 Minimize amount of bare soil exposed at one time. Stabilize disturbed soil within forty-five (45) days of disturbance to minimize erosion. Remove accumulated sediment resulting from construction activity from adjoining surfaces, drainage systems, and watercourses, and repair damage caused by soil erosion and sedimentation.
  - .2 Provide and maintain appropriate temporary measures such as silt fences, straw bales, ditches, geotextiles, drains, berms, terracing, riprap,

temporary drainage piping, sedimentation basins, vegetative cover, dikes, and other measures that may be required to prevent erosion and migration of silt, mud, sediment, and other debris.

- .3 Do not disturb existing embankments or embankment protection.
  - .4 Conduct weekly inspection of erosion and sediment control measures to detect evidence of erosion and sedimentation. Promptly take corrective measures when necessary.
  - .5 If soil and debris from site accumulate in ditches or other low areas, remove accumulation and restore area to original condition.
- .2 Site Drainage:
- .1 Maintain grades to ensure proper site drainage.
  - .2 Prevent precipitation from infiltrating or from directly running off stockpiled materials. Cover stockpiled materials with an impermeable liner during periods of work stoppage including at end of each Working Day.
  - .3 Control surface drainage from cuts and fills, from borrow and waste disposal areas, from stockpiles, staging areas, and other work areas as required to prevent erosion and sedimentation.
  - .4 Control surface drainage by ensuring that gutters are kept open and water is not directed across or over pavements or sidewalks, except through pipes or properly constructed troughs. Ensure that runoff from unfinished areas is intercepted and diverted to suitable outlets.
- .3 Plant Protection and Site Clearing:
- .1 Protect all existing trees and landscaping which is to remain at the Place of Work, using methods and materials recommended by the Canadian Nursery Trades Association and as approved by the Consultant.
  - .2 If required, install tree protection zone fencing in accordance with Contract Documents and Drawings.
  - .3 Protect roots of designated trees to drip line during excavation and site grading to prevent disturbance or damage. Avoid unnecessary traffic, dumping and storage of materials over root zones.
  - .4 Minimize stripping of topsoil and vegetation.
  - .5 Restrict tree removal to area indicated or designated in the Contract Documents. No vegetation removal should occur between April 1 and August 30 to protect birds protected under the *Migratory Birds and Convention Act ("MBCA")*.
  - .6 If vegetation removal must be undertaken between April 1 and August 30, a nest survey must be conducted by a qualified avian biologist to identify and locate active nests of species covered by the MBCA.
  - .7 Trees free of nests must be removed within 24 hours for nest sweep.
    - .8 Trees with active nests should be monitored periodically during MBCA window and must remain in place until young birds have fledged the nest. Nest sweep should be conducted by qualified Avian Biologist prior to tree being removed.
- .4 Wildlife Habitat Protection
- .1 Allow wildlife incidentally encountered during construction to passively move out of the work area.

- .2 The Contractor shall comply with the following wildlife exclusion fencing resources:
  - .1 <https://www.ontario.ca/page/reptile-and-amphibian-exclusion-fencing> (OMECP 2020)
- .5 Dewatering:
  - .1 Provide temporary drainage and pumping as necessary to dewater excavations, trenches, foundations, and other parts of the Work.  
  
 Maintain such areas free of water arising from groundwater or surface run-off, as required to keep them stable, dry, and protected from damage due to flooding.
  - .2 Maintain standby equipment necessary to ensure continuous operation of dewatering system.
  - .3 Do not pump water containing suspended materials or other harmful substances into waterways, sewers or surface drainage systems. Treat or dispose of such water in accordance with Environmental Law.
- .6 Pollution Control:
  - .1 Take measures to prevent contamination of soil, water, and atmosphere by Spills, potentially causing environmental damage.
  - .2 Be prepared, by maintaining appropriate materials, equipment, and trained personnel on site, to intercept, clean up, and dispose of Spills that may occur.
  - .3 Promptly report spills and releases that may occur to Owner and Consultant.
  - .4 Contact manufacturer of Environmental Contaminant, if known and applicable, to obtain safety data sheets (SDS) and ascertain hazards involved and precautions and measures required in cleanup or mitigating actions.
  - .5 Take immediate action to contain and mitigate harmful effects of the Spill
- .7 Dust and Particulate Control:
  - .1 Implement and maintain dust and particulate control measures in accordance with Environmental Law.
  - .2 Execute Work by methods that minimize dust from construction operations and spreading of dust on site or to adjacent properties.
  - .3 Provide temporary enclosures to prevent extraneous materials resulting from sandblasting or similar operations from contaminating air beyond immediate work area.
  - .4 Cover or wet down dry materials and rubbish to prevent blowing dust and debris. Provide dust control for temporary roads.
  - .5 Use appropriate covers on trucks hauling fine, dusty, or loose materials.

- .8 Noise and Vibration Control:
  - .1 Take measures to control noise and vibration generated by the Work.
  - .2 All construction vehicles and equipment used in the Work shall comply with the noise limits provided by NPC-115 and NPC-118.
  - .3 Comply with the requirements of Authorities Having Jurisdiction and local Noise Control By-Laws to ensure noise generated by the Work is not excessive and not disturbing to the occupants of adjacent buildings / properties.
  - .4 The contractor shall notify the Owner and Consultant of any planned nighttime or weekend construction activities a minimum of thirty (30) days prior to the start of those activities.
  - .5 Vibration levels during construction of the Work shall comply with the limits noted in Table 7-5 of the Federal Transit Administration (FTA) Transit Noise and Vibration Impact Assessment Manual (September 2018). I
  - .6 The contractor shall monitor vibration at all structures or buildings where there is a potential to exceed the vibration limits.
  - .7 The contractor shall comply with Enbridge’s Third Party Requirements in the Vicinity of Natural Gas Facilities Standard (2021-09-29).
  
- .9 Snow Removal
  - .1 Allow no accumulation of ice and snow within the Place of the Work. There shall be no use of salt for de-icing in areas of building work.
  - .2 Remove snow from access routes to the Work to maintain uninterrupted progress of the Work.
  
- .10 Maintaining existing sewerage flows
  - .1 Maintain existing sanitary sewage flows, where applicable, and provide alternative interim service utilizing duplicate portable sewage pumps, tank trucks and other approved means. Prevent interruption to service throughout the construction period and until the new works are placed in service.
  - .2 Provide and install all temporary sumps, bulkheads and/or other works in existing sewers, maintenance holes and service connections and provide temporary pumps in duplicate and pipelines to dewater and control the sewage.
  - .3 Discharge sewerage flows only to those sanitary sewers remaining in service or to tank trucks for approved disposal. Under no circumstances shall contaminated water be discharged or permitted to enter any drainage or natural watercourse.
  - .4 Temporarily drain or pump any leakage to permit work to be performed in the dry The Contractor’s method shall be subject to review and Acceptance of the Consultant.
  
- .11 Drainage ditches and storm sewers
  - .1 All ditches, drainage channels and/or storm sewer systems which may be affected by construction shall have their flows maintained at all times

during construction. Drainage shall not be impeded, and blockages or water backups are not permitted.

- .2 Make allowance in prices for any problems that may be encountered because of ditch flows or storm sewer flows. Any damage because of water or flooding shall be the responsibility of the Contractor.

**1.07 ARCHAEOLOGY AND CULTURAL HERITAGE**

.1 Archaeology

- .1 The Contractor shall comply with the following archaeological reference documents:

- .1 2011 *Standards and Guidelines for Consultant Archaeologists* administered by the Ministry of Citizenship and Multiculturalism (MCM); and
- .2 Archaeological reports completed for the Project.

- .2 Before commencing any construction activities, the Contractor shall prepare, implement, and provide for the Consultant's review and Acceptance, an Archaeological Risk Management Plan setting out protocols for the discovery of human remains or undocumented archaeological resources. This Archaeological Risk Management Plan must be produced by a Licensed Professional Archaeologist. At a minimum it will include the following:

- .1 Actions required resulting from the recommendations of the Archaeological reports;
- .2 A protocol to be followed if human remains are discovered which includes how the Contractor will ensure that human remains are managed in compliance with Environmental Laws and all requirements of AHJ with respect to such discovery;
- .3 A protocol to be followed by the Contractor if previously undocumented archaeological resources are discovered which describes how the Contractor will comply with Environmental laws regarding the management of previously undocumented archaeological resources;
- .4 A process to ensure that the Contractor complies with Environmental laws for the management of archaeological sites.
- .5 The Contractor shall treat the Archaeological Risk Management Plan as a living document and update it when any archaeological activities occur. Each Archaeological Risk Management Plan Update shall be submitted to the Owner and Consultant for review.

- .3 Upon discovery of human remains or previously undocumented archaeological resources, all construction activities or other work that could have a detrimental impact in the immediate vicinity shall be stopped.

- .4 Any archaeological materials that are discovered during the course of the Works shall be the responsibility of the Contractor for safekeeping until transferred out of the Contractor's control;

- .5 Any future Stage 2, Stage 3 and/or Stage 4 archaeological assessments will adhere to the process noted above.
  - .6 All archaeological assessments will follow the MCM for Engaging Aboriginal Communities in Archaeology: A Draft Technical Bulletin for Consultant Archaeologists in Ontario.
- .2 Cultural Heritage
- .1 The Contractor shall comply with the following cultural heritage reference documents:
    - .1 ONTC Environmental Assessment and Permitting Toolkit, AECOM Canada Limited, 2021;
    - .2 Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes, MCM, 2016;
    - .3 Ontario Heritage Tool Kit, MCM, 2006;
    - .4 Standards and Guidelines for Conservation of Provincial Heritage Properties, MCM, 2010;
    - .5 Standards and Guidelines for Conservation of Provincial Heritage Properties: Heritage Identification Process, MCM, 2014;
    - .6 Information Bulletin No. 2: Strategic Conservation Plans for Provincial Heritage Properties, MCM, 2017;
    - .7 Information Bulletin No. 3: Heritage Impact Assessments for Provincial Heritage Properties, MCM, 2017;
    - .8 Standards and Guidelines for the Conservation of Historic Places in Canada (Parks Canada 2010)
    - .9 Cultural Heritage Reports (including but not limited to: Cultural Heritage Evaluation Reports, Heritage Impact Assessments, and Strategic Conservation Plans).
  - .2 Before commencing any construction activities, the Contractor shall prepare, implement, and provide for Consultant's review and Acceptance a Cultural Heritage Risk Management Plan. The plan shall include, at a minimum, the following requirements for all directly and indirectly impacted properties of known heritage significance or potential heritage significance:
    - .1 The actions required of the Contractor pursuant to the recommendations set out in the Cultural Heritage Reports, Cultural Heritage Evaluation Reports, and Heritage Impact Assessments, and to ensure the protection of identified built heritage resources and cultural heritage landscapes;
    - .2 The Contractors planned approach to carrying out the actions described in the above, including an approach to document, monitor and mitigate vibration to heritage structures during construction;
    - .3 A process for updating and resubmitting the Cultural Heritage Risk Management Plan;
    - .4 A process to ensure that the Contractor complies with Environmental Laws for the management of heritage resources;
    - .5 A process to ensure that the Contractor provides to the Owner any cultural heritage evaluation reports, cultural heritage reports, cultural heritage impact assessments, conservation plans, or any

other documentation as may be required of the Contractor pursuant to Environmental Law or the Cultural Heritage Reports, in addition to those provided with the Contract Documents.

## 1.08 EXCESS SOIL MANAGEMENT

### .1 Soil and Excavated Materials Management Plan

- .1 The Contractor shall prepare, submit for Acceptance to the Owner and Consultant and implement a soil and groundwater management strategy (a "Soil and Excavated Materials Management Plan") that describes how the Contractor will address the handling, management, treatment, reuse, storage, monitoring and disposal of soil and excavated materials (i.e., soil, fill, rock and solid Hazardous Waste and non-Hazardous Waste, including Environmental Contaminants) that is generated or encountered during the Works. The Soil and Excavated Materials Management Plan shall include, at a minimum, descriptions of:
  - .1 the general principles that the Contractor will apply for managing soil and excavated materials;
  - .2 the over-arching soil and excavated materials management strategy for the Project in terms of sustainable principles and compliance with regulatory requirements (including, but not limited to, On-site and Excess Soil Management Regulation – O. Reg. 406/19) and best practices;
  - .3 the estimated quantities of soil and excavated materials to be managed during the Works and proposed methods for minimizing these quantities;
  - .4 the strategy to reuse soil and excavated material;
  - .5 the strategy for stockpiling and monitoring the soil and excavated material at the Site, and to mitigate any exceedance of any Authorized Volume;
  - .6 a preliminary schedule indicating the affected areas to be excavated over the course of the Project, and the associated quantities for each stage of construction;
  - .7 protocols for characterizing soil and excavated materials quality and determining management, including handling, reuse, storage, transportation, documentation, treatment and disposal requirements;
  - .8 how soil and excavated materials will be temporarily staged or stored at the site or other worksites for reuse or stockpiled and monitored or transferred to disposal with regard for potential environmental effects and impacts to human health and safety;
  - .9 how soil and excavated materials quantities will be tracked and reported to the Owner during excavation, transport, treatment, disposal or stockpiling;
  - .10 how clean fill will be sourced and brought to the site;
  - .11 mitigation measures to address any impacts associated with the excavation, management, reuse, stockpiling, transport, treatment or disposal of soil and excavated materials;
  - .12 a monitoring plan in which monitoring of the contaminated and hazardous stored soil and excavated material are recorded and reported; and

- .13 how the discovery of Environmental Contaminants in areas not previously identified will be managed including a general plan of action for the remediation, storage or removal of Environmental Contaminants as detailed in the Contamination Management Plan defined below
- .2 The Contractor shall adhere to groundwater and dewatering management.
- .3 The Contractor shall submit the Soil and Excavated Materials Management Plan for Acceptance by the Owner and Consultant.

**1.09 CONTAMINATION MANAGEMENT PLAN**

- .1 The Contractor shall prepare the Contamination Management Plan and submit it to the Owner and the Consultant for Review and Acceptance. The Contamination Management Plan shall include:
  - .1 the date and time that the Environmental Contaminants was discovered;
  - .2 a description of the Environmental Contaminants including the location (municipal address and/or UTM coordinates) and a figure depicting the location of the Environmental Contaminants;
  - .3 a detailed description of the circumstances under which the Environmental Contaminants was discovered, including the preliminary field assessment and observations;
  - .4 a detailed description of the handling and management of the Environmental Contaminants prior to submittal of the Contamination Management Plan;
  - .5 a detailed description of the preliminary field investigation including date, time and depth of samples collected, sampling methods, number of samples collected, chemical parameters, media tested and an explanation of the delineation method for Environmental Contaminants;
  - .6 a figure depicting sampling locations, sample exceedances and estimated vertical and horizontal extent of the Environmental Contaminants in relation to the site;
  - .7 copies of borehole and test pit logs for sample locations related to the Environmental Contaminants, including soil description and classification;
  - .8 copies of laboratory certificates of analysis for the samples collected, including grain size analysis (if applicable);
  - .9 sampling and analysis requirements in accordance with O. Reg. 406/19;
  - .10 a description of management options for the Environmental Contaminants and the Contractor's preferred management option, including a description of whether containment measures are required to avoid re-contamination or migration of the Environmental Contaminants;
  - .11 an implementation plan, including a detailed description of how Environmental Contaminants will be managed and estimated quantities of soil and groundwater to be disposed off-site and reused within the Project, if applicable;

- .12 any impact to the Project Schedule caused by the discovery of Environmental Contaminants;
  - .13 additional costs, if any, associated with incremental measures required to manage the Environmental Contaminants;
  - .14 name and address of the receiver site for the soil containing Environmental Contaminants;
  - .15 additional information as requested by the Owner and/or Consultant; and
  - .16 rationale for assigning responsibility for the Environmental Contaminants, including an assessment and comparison of the discovered Environmental Contaminants characteristics against available baseline environmental information such as the Project's Soil and Groundwater Characterization Report.
- .2 The Contractor's Qualified Person shall supervise the extraction, transport, removal, disposal or discharge of contaminated media identified in the Contamination Management Plan.
  - .3 In accordance with Environmental Law, the Contractor shall be responsible for the characterization, testing, and analysis of soil and groundwater that requires off-Site disposal, off-Site reuse or on-Site reuse, to the satisfaction of the receiver or disposal site and to the satisfaction of Owner and Consultant.
  - .4 The Contractor shall be responsible for registration with the Resource Productivity and Recovery Authority (RPRA) and recordkeeping for disposal of regulated Waste, as applicable.
  - .5 The Contractor shall update the Contamination Management Plan with additional information following the implementation of the Contamination Management Plan (the "Updated Contamination Management Plan") and the Contractor shall submit such updated plan to the Owner and Consultant in accordance with Project submission timeframes. The Updated Contamination Management Plan shall include:
    - .1 a summary of the information presented in the Contamination Management Plan;
    - .2 a detailed description of the handling and management of the Environmental Contaminants following submittal of the Contamination Management Plan;
    - .3 a detailed description of the handling and management of the Environmental Contaminants following submittal of the Contamination Management Plan;
    - .4 a detailed description of field investigations conducted during implementation of the Contamination Management Plan including date, time and depth of samples collected, sampling methods, number of samples collected, chemical parameters, media tested and explanation of the delineation method for Environmental Contaminants;
    - .5 a figure depicting sampling locations, sample exceedances and vertical and horizontal extent of the Environmental Contaminants remediated on site;
    - .6 copies of borehole and test pit logs for sample locations related to the Environmental Contaminants, including soil description and classification;
    - .7 quantity of soil and groundwater disposed outside the Lands

- and reused within the lands;
  - .8 name and address of the receiver site for the Environmental Contaminants;
  - .9 electronic copies of waste manifests or bills of lading;
  - .10 a description of containment measures for the Environmental Contaminants employed to avoid re-contamination or migration of Environmental Contaminants;
  - .11 a description of whether the Environmental Contaminants entered lands outside of the Project site;
  - .12 a description of post-implementation monitoring or sampling needed; and
  - .13 signature of the Contractor's Qualified Person who supervised the implementation of remediation activities and preparation of the Updated Contamination Management Plan.
- .6 The Contractor is encouraged to seek opportunities for beneficial reuse (rather than remove or replace) for as much soil from the Project as possible in a manner that is consistent with Ontario Regulation 406/19, provided that the Contractor complies with its obligations under this Contract.
  - .7 The Contractor shall evaluate reuse options to consider site-specific excess soil quality criteria in cases where soil is geotechnically suitable for reuse as engineered fill, including where such soil may be subject to some reconditioning such as drying or wetting, but soil quality does not meet the applicable generic excess soil quality standard.
  - .8 The Contractor shall reuse (rather than remove or replace), as feasible, as much soil on site as possible in a manner that is consistent with Ontario Regulation 153/04, Ontario Regulation 406/19 and the MECP's Rules for Soil Management and Excess Soil Quality Standards, as amended, provided that the Contractor complies with its obligations under this Contract.
  - .9 The Contractor shall evaluate reuse options in cases where soil is geotechnically stable for reuse but soil quality does not meet the applicable generic excess soil quality standard.

**1.10 MANAGEMENT, REMOVAL AND REMEDIATION OF SOIL WITH ENVIRONMENTAL CONTAMINANTS**

- .1 The Contractor shall be responsible for excavating, handling, managing, stockpiling, removing, and transporting of soil and excavated material as required to complete the Project, including soil and excavated material containing Environmental Contaminants. The Contractor shall reuse or dispose of soil and excavated material that does not contain Environmental Contaminants at its own cost.
- .2 The Contractor shall be permitted to reuse any soil and excavated material containing Environmental Contaminants as part of the Works provided the Contractor's reuse of such soil complies with Environmental Laws and MECP Guidelines, Standards and Rules. The Contractor shall not be entitled to any additional compensation from the Owner where such soil or excavated material is reused.
- .3 Upon discovery of soil containing Environmental Contaminants that will require excavation to complete the Project and that the Contractor will not reuse, the Contractor shall notify the Owner and Consultant. Such notification shall clearly indicate the anticipated volume of soil containing Environmental Contaminants

that will be excavated and not reused. The Contractor shall not be permitted to provide such notification until the Contamination Management Plan has been submitted for Acceptance to the Owner and Consultant. The Owner shall, no later than fifteen (15) Working Days following Notice in Writing from the Contractor that contains all information provided in the notification, described above, and the Contamination Management Plan, direct the Contractor either to:

- .1 dispose of such soil containing Environmental Contaminants; or
  - .2 stockpile such soil containing Environmental Contaminants on the Place of the Work (or Station Location).
- .4 The Owner may specify a maximum volume that is to be disposed of or stockpiled (the "Authorized Volume"). Where the Owner has specified an Authorized Volume, the Contractor shall be required to submit a new notification for any remaining soil containing Environmental Contaminants following completion of the disposal or stockpiling of the Authorized Volume in order to receive further direction from the Owner, including a revised Authorized Volume.
- .5 If the Contractor is directed to dispose of soil containing Environmental Contaminants, then:
- .1 the Contractor shall proceed to dispose of the soil at a licensed facility in Ontario and inform the Owner of the selected facility;
  - .2 the Contractor shall be compensated with an agreed upon pricing for each ton of excavated soil containing Environmental Contaminants that is disposed, up to any Authorized Volume and Invoicing and such compensation shall be deemed to include all handling, shipping and disposal fees and costs and all administrative and profit costs of the Contractor.
- .6 If the Contractor is directed by the Owner to stockpile such soil containing Environmental Contaminants on the Site, then the Contractor shall:
- .1 utilize an agreed upon laydown area;
  - .2 provide geomembrane ground protection to prevent leaching of Environmental Contaminants;
  - .3 provide a full geomembrane cover over the stockpile;
  - .4 provide a permanent monitoring system;
  - .5 comply with the portions of the On-site and Excess Soil Management Regulation (O. Reg. 406/19) regarding stockpiling, the MECP Rules for Soil Management and Excess Soil Quality Standards and the MECP Management of Excess Soil - A Guide for Best Management Practices;
  - .6 develop and submit to the Owner a monitoring program for the stockpiled soils for review and Acceptance by the Consultant.

**1.11 WEEKLY SOIL AND EXCAVATED MATERIALS REPORT**

- .1 The Contractor shall provide a template of the Weekly Soil and Excavated Materials Report to the Consultant.
- .2 The Contractor shall submit a weekly report for soil and excavated material to the Consultant (each a "Weekly Soil and Excavated Materials Report") that includes at a minimum:

- .1 analytical results of chemical samples collected for soil, groundwater or other material in the area of the Works before and after construction;
- .2 record of quantity of excavated material, reused at the site in metric tonnes;
- .3 record of excavated material stockpiled at the site in metric tonnes;
- .4 all back-up documents of soils, groundwater or other materials removed from site, including tickets indicating soil or other material quantity, landfill or final treatment or disposal location;
- .5 Site reports complete with photos and back-up documents on all soil, groundwater or other materials remedial work activities;
- .6 documentation related to any unforeseen site issues during soil, groundwater or other materials remedial work activities;
- .7 a cost table indicating all associated costs in the removal, management, transportation, treatment and disposal of the soil, groundwater or other materials in the area of the Works;
- .8 a description of how the discovery of Environmental Contaminants in areas not previously identified will be managed including the preparation of a plan for the re-use, stockpile, remediation or removal of Environmental Contaminants; and
- .9 reporting as to how all management activities and best practices have been implemented.

#### **1.12 HAZARDOUS SUBSTANCES BROUGHT ONTO THE SITE**

- .1 Notwithstanding any Environmental Laws or any other provision, all products and materials, goods or other items which in their natural, original state, or through environmental transformation or degradation contain Hazardous Substances, that are brought onto the site by the Contractor or any person for whom Contractor is at law responsible shall be and remain the sole and exclusive property and responsibility of Contractor and shall not become the property or responsibility of the Owner, notwithstanding their incorporation into or affixation to the site as part of the Work, and notwithstanding any termination or expiration of the Project. Any resulting Environmental Contaminants at the site in respect of any Hazardous Substances so brought onto the site and the remediation and/or removal thereof and the cost of such remediation and/or removal shall be the sole responsibility of the Contractor.

#### **1.13 SPILL PREVENTION PLAN**

- .1 The Contractor shall prepare, submit, and implement a Spill Prevention Plan (a "Spill Prevention Plan"). The Spill Prevention Plan shall describe the measures the Contractor will take to prevent Spills of liquid chemicals, fuels and lubricants, and manage or otherwise mitigate the effects of any such Spills to construction personnel and the environment during the term of the Project. The Spill Prevention Plan shall consider site-specific characteristics, and include, at a minimum, the following:
  - .1 the types and nature of liquid chemicals, fuels and lubricants to

- be used during the performance of the initial Works;
- .2 the facilities and procedures to be used for storing and handling such materials, including Spill response, containment and clean-up materials;
- .3 monitoring and inspection procedures, including monthly inspections of Spill response and safety equipment, to ensure that management requirements are maintained and that inspections are documented;
- .4 employee training on the storage and use of liquid chemicals, fuels and lubricants and the prevention of Spills;
- .5 subsurface infrastructure (for example, weeping tile, infiltration galleries, etc.) that may influence the destination of any Spill material;
- .6 the identification of municipal and natural discharge locations (for example, municipal catch basins) and drainage pathways on the Site, and a description of the direction of flow in the event of a Spill;
- .7 Spill response procedures for each type of material that may be spilled, and the various environmental media that may be affected (for example, atmosphere, water bodies, ground surface);
- .8 procedures for clean-up and restoration of surfaces and environmental media that may be affected by the Spill; and
- .9 procedures for notification and reporting of Spill events to Contractor and to Authorities Having Jurisdiction, as applicable.

- .2 The Contractor shall submit the Spill Prevention Plan to the for review and Acceptance.
- .3 The Contractor shall ensure that a hard copy of the latest revision of the Spill Prevention Plan is available in all site trailers and all site offices.
- .4 After each and any occurrence of a Spill, irrespective of the quantity or characteristics of the material spilled, the Contractor shall prepare and submit a spill prevention occurrence report (a "Spill Prevention Occurrence Report") to the Consultant. The Spill Prevention Occurrence Report shall summarize how all Spill Prevention Plan activities were implemented during the remediation and management of the occurrence of the Spill and the associated outcomes.

**1.14 DESIGNATED SUBSTANCES AND HAZARDOUS SUBSTANCE MANAGEMENT PLAN**

- .1 The Contractor shall review the "Designated Substances Survey Report – Matheson Station".
- .2 The Contractor shall prepare and implement a Designated Substances and Hazardous Substance Management Plan (a "Designated Substances and Hazardous Substance Management Plan"). The Contractor shall submit the Designated Substances and Hazardous Substance Management Plan for review and Acceptance. The Designated Substances and Hazardous Substance Management Plan shall describe:
  - .1 how the Contractor will manage all Designated Substances and

Hazardous Substance, including, but not limited to, abatement, handling, transportation, testing, removal, disposal and/or ultimate disposition of all Designated Substances and Hazardous Substance determined to be present, or generated as part of the Works;

- .2 the general principles that the Contractor will apply for managing the necessary removal of Designated Substances and Hazardous Substances;
- .3 the Contractor’s over-arching Designated Substances and Hazardous Substance management strategy in terms of sustainable principles and compliance with Environmental Laws and best practice;
- .4 locations of Designated Substances and Hazardous Substances to be abated, managed or removed by Contractor during the Work. The Contractor shall carry out necessary testing for Designated Substances and Hazardous Substances under section 30 of the Occupational Health and Safety Act (Ontario), and under section 8 Regulation 278/05, and protect workers from working with or in proximity to or from being otherwise exposed to Designated Substances at the Site or the Works. The Designated Substances and Hazardous Substance Management Plan shall describe all applicable processes for same;
- .5 the Contractor’s protocols for safe handling, abatement, management, and removals, including disposal requirements;
- .6 how the Contractor will ensure that no adverse impacts will result to adjacent properties during the abatement, handling, management or removal of Designated Substances and Hazardous Substances;
- .7 how the Contractor will conduct its activities in compliance with the Occupational Health and Safety Act (Ontario) and all applicable law and industry practices;
- .8 the further necessary measures the Contractor will take to ensure the safety of all personnel accessing the Site and the Works, to the standards of applicable Occupational Health and Safety Law;
  - .1 the Contractor’s contingency plans to mitigate adverse impacts; and
  - .2 the Contractor’s reporting procedures to document and report to the Owner how all testing, management activities, best practices and mitigation measures have been implemented.
- .3 Contractor acknowledges that section 30(5) of the Occupational Health and Safety Act (Ontario) shall not apply to the circumstances of the site and the Works of the Owner, given the obligations of the Contractor set out in Section 1.13.2.4.
- .4 The Contractor shall prepare and submit a Designated Substances and Hazardous Substance implementation report (a “Designated Substances and Hazardous Substance Implementation Report”) to the Consultant for Acceptance. The Designated Substances and Hazardous Substance Implementation Report shall summarize how all Designated Substances and Hazardous Substance

Management Plan activities were implemented during the Works and the associated outcomes.

**1.15 OTHER ENVIRONMENTAL MATTERS**

.1 Organic Materials

.1 Organic materials from excavation operations may contain peat, topsoil and subsoil materials. Contractor shall remove these materials from the Site in accordance with Environmental Laws and best practice. The Contractor shall not allow burial or reuse of any excavated organic materials on the site.

.2 Protection/Decommissioning of Existing Monitoring Wells

.1 The Contractor shall be responsible for temporary protection and final decommissioning of all existing or newly installed monitoring wells in accordance with Ontario Regulation 903 under the Ontario Water Resources Act (Ontario), as directed by the Owner, including with respect to:

.1 any and all monitoring wells installed as part of geotechnical, environmental, or hydrogeological investigations in connection with the Project; and

.2 all wells installed as part of the studies undertaken by the Owner and that were provided as part of the project background information.

.2 The Contractor shall, prior to Ready-for-Takeover (unless the Owner provides an alternative timing), decommission any wells installed by the Contractor as part of its own investigation and monitoring work as necessary to complete the Works.

**2 Products**

**2.01 NOT USED**

**3 Execution**

**3.01 NOT USED**

**3.02 END OF SECTION**

## 1 GENERAL

### 1.01 SUMMARY

- .1 This Section references laws, bylaws, ordinances, rules, regulations, codes, orders of Authority Having Jurisdiction (AHJ), and other legally enforceable requirements applicable to the Work and that are or become enforced during performance of the Work.

### 1.02 REFERENCE STANDARDS AND REFERENCE DOCUMENTS

- .1 If specified referenced standards do not indicate an edition or version, the latest edition or revision issued by the publisher at the time of RFP closing shall apply, except as follows:
  - .1 If a particular edition or revision date of a specified standard is referenced in an applicable code or other regulatory requirement, the edition or version in the regulatory reference shall apply.
  - .2 The specified reference standards establish minimum requirements. If Contract Documents indicate requirements that conflict with a reference standard, the more stringent requirements shall apply.
  - .3 If multiple reference standards are specified and the standards establish different requirements, the most stringent requirement shall apply.
  - .4 In case of discrepancy or uncertainties, refer to the Consultant for interpretation or clarification.
  - .5 Canadian Construction Documents Committee (CCDC)
    - .1 CCDC 2-2020, Stipulated Price Contract.

### 1.03 CODES

- .1 Building Code: Perform Work in accordance with the Ontario Building Code including amendments up to the time of RFP closing and other codes of provincial or local application.
- .2 Fire Code: Perform Work in accordance with the Ontario Fire Code 2020 including amendments up to the time of RFP closing and other codes of provincial or local application.
- .3 Energy Code: Perform Work in accordance with the National Energy Code of Canada for Buildings (NECB) 2020 and Part 12 of OBC Resource Conservation and Environmental Integrity and Supplementary Standard SB-10 whichever is more stringent, including amendments up to the time of RFP closing and other codes of provincial or local application.
- .4 Plumbing Code: Perform Work in accordance with Ontario Plumbing Code Part 7 of OBC. including amendments up to the time of RFP closing and other codes of provincial or local application.
- .5 If there is a conflict or discrepancy between codes, the most stringent requirements shall apply.

- .6 Specific design and performance requirements listed in Specifications and indicated on Drawings may exceed minimum requirements established by referenced Codes; these requirements will govern over the minimum requirements listed in the referenced Codes.

**1.04 FEES**

- .1 Except as otherwise specified, Contractor shall apply for, obtain, and pay fees associated with permits, licenses, certificates, and approvals required by regulatory requirements and Contract Documents, based on General Conditions of Contract and the following:
  - .1 Regulatory requirements and fees in force at the time of RFP closing, and
  - .2 A change in regulatory requirements or fees scheduled to become effective after the time of RFP closing and of which public notice has been given before the time of RFP closing.

**2 PRODUCTS**

**2.01 EASEMENTS AND NOTICES**

- .1 Owner will obtain permanent easements and rights of servitude that may be required for performance of the Work.
- .2 Contractor shall give notices required by regulatory requirements.

**2.02 PERMIT REQUIREMENTS**

- .1 Construction Related Permits:
  - .1 If required, MTO Building and Land Use Permits will be obtained by the Owner.
  - .2 Obtain and pay for all other required Certificates, Licenses and other permits required by regulatory municipal, provincial or federal authorities to complete the Work.
  - .3 Contractor will require that specific Subcontractor[s] obtain and pay for permits required by authorities having jurisdiction (AHJ), where their work is affected by work requiring permits.
  - .4 Contractor shall display permits in a conspicuous location at the Place of the Work.
- .2 Occupancy Permits:
  - .1 Contractor shall apply for obtain and pay for any required permits and or certificates where required by AHJ.
  - .2 Contractor shall correct deficiencies in accordance with the Consultant's instruction. If a deficiency is not corrected, the Owner reserves the right to make correction and charge Contractor for costs incurred.
  - .3 Contractor shall turn all permits and certificates over to Owner.

END OF SECTION

## **1 GENERAL**

### **1.01 REFERENCE STANDARDS**

- .1 Canadian Construction Documents Committee (CCDC)
  - .1 CCDC 2-2020, Stipulated Price Contract.
- .2 ASTM International (ASTM):
  - .1 ASTM E329-[20]Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection
- .3 International Organization for Standardization (ISO):
  - .1 ISO 9001: [2015], Quality Management Systems – Requirements

### **1.02 SUMMARY**

- .1 This section describes administrative and procedural requirements for proactive Contractor activities to assure the quality of construction before and during execution of the Work.

### **1.03 RELATED REQUIREMENTS**

- .1 Section 01 33 00 – Submittal Procedures.
- .2 Section 01 45 00 – Quality Control

### **1.04 ADMINISTRATIVE REQUIREMENTS**

- .1 Contractor is responsible for self-performed testing and inspections and submittal of test reports to the Consultant.
- .2 The Owner may employ and pay for quality audit services performed through third-party observation and testing to validate the Contractor's performance of the Work and perform whole Work testing at completion of Project.
- .3 Contractor to provide a Quality management system that establishes a standardized approach to managing quality of materials and workmanship during the execution of Work in accordance with ISO 9001. The quality management system shall consist of plans, procedures, and organization necessary to produce complete the Work in compliance with the Contract Document requirements.

### **1.05 ACTION AND INFORMATION SUBMITTALS**

- .1 Submit in accordance with Section 01 33 00 – Submittal Procedures.
- .2 Submit a Quality Management Plan to the Consultant for review and Acceptance prior to Preconstruction meeting.

- .1 The plan shall identify personnel, procedures, control, instructions, test, records, and forms to be used. The Owner will consider an interim plan for the first twenty (20) Working Days of operation. The Contractor may begin mobilization during the interim period.
- .2 The Work will be permitted to begin only after Acceptance of the Quality Management Plan or Acceptance of an interim plan applicable to the portion of the Work to be started.
- .3 The Quality Management Plan shall include, as a minimum, the following to cover all Work both at the Place of the Work, and in off-site locations (such as manufacturing facilities), including Work by Subcontractors, fabricators, suppliers, and purchasing agents:
  - .1 A description of the quality control organization, including a chart showing lines of authority and acknowledgment that the quality control staff shall implement the three-phase control system for all aspects of the work specified. The staff shall include the person responsible for quality who shall report to the Contractor's project manager.
  - .2 The name, qualifications (in resume format), duties, responsibilities, and authorities of each person assigned a quality control function.
  - .3 A copy of the letter to the person responsible for quality signed by an authorized official of the firm which describes the responsibilities and delegates sufficient authorities to adequately perform the functions of person responsible for quality, including authority to stop work that is not in compliance with the Contract Documents. The person responsible for quality shall issue letters of direction to all other various quality control representatives outlining duties, authorities, and responsibilities. Copies of these letters will also be supplied to the Consultant.
  - .4 Procedures for scheduling, reviewing, certifying, and managing Submittals, including those of Subcontractors, offsite fabricators, suppliers, and purchasing agents. These procedures shall be in accordance with the Contract Documents.
  - .5 Control, verification, and acceptance testing procedures for each specific test to include the test name, specification paragraph requiring test, portion of the Work to be tested, test frequency, and person responsible for each test.
  - .6 Procedures for tracking preparatory, initial, and follow-up control phases and control, verification, and acceptance tests, including documentation.
  - .7 Procedures for tracking defects and deficiencies from identification through Acceptable corrective action. These procedures will establish verification that identified deficiencies have been corrected.
  - .8 Reporting procedures, including proposed reporting formats.
  - .9 A list of the definable features of Work. A definable portion of the Work is a task which is separate and distinct from other tasks and has separate control requirements. This list will be agreed upon with the Consultant during a coordination meeting.

- .10 Acceptance of the Contractor's Quality Management Plan is required prior to the start of the Work. Acceptance is conditional and will be predicated on satisfactory performance during the Work.
- .11 The Owner reserves the right to require the Contractor to make changes in its Quality Management Plan and operations, as necessary, to obtain the quality specified.
- .12 Refer to the Contract Documents for additional requirements.
- .4 Submit a detailed testing and inspections schedule for Acceptance to the Consultant in accordance with the Contractor's Quality Management Plan.
- .5 Submit certificates for Products, process and system for Acceptance by the Consultant.
- .6 Submit formal testing and inspections reports per ASTM E329 and as indicated in Specifications to the Consultant in accordance with the Contract Documents.
- .7 Submit one digital copy of each Quality Assurance inspection and test report to the Consultant, except where Specifications indicate otherwise.
- .8 Submit mill test certificates, as required, in technical Specifications and as indicated on Drawings.

**1.06 Quality Control Organization:**

- .1 The requirements for the quality control organization are a person responsible for quality and sufficient number of additional qualified personnel to ensure compliance to Contract Documents.
- .2 Provide a quality control organization which shall be available at all times during progress of the Work and with complete authority to take any action necessary to ensure compliance with the Contract Documents.

**1.07 QUALIFICATIONS**

- .1 Manufacturers' Qualifications:
  - .1 specializes in manufacturing the Products specified in the Specifications.
  - .2 minimum three (03) years documented experience with a record of successful performance.
- .2 Suppliers' Qualifications:
  - .1 authorized to distribute manufacturer's Products
  - .2 has capacity to supply required Products without delaying the Project
- .3 Fabricators' Qualifications:
  - .1 experienced in producing Products required for this Project
  - .2 successful record of in-service performance
  - .3 sufficient production capacity to fabricate required Products without delaying the

Project

- .4 Installer Qualifications:
  - .1 firm or individual experienced in design and installation, application, and erection of materials to the extent required for this Project
  - .2 successful record of in-service performance
- .5 Testing and Inspecting Agency Qualifications:
  - .1 accredited organizations by the Standards Council of Canada for testing and inspection
  - .2 capable of reliably performing testing of building products and inspections of construction activities in accordance with ISO 9001 and ASTM E329.
- .6 Licensed Professionals Qualifications:
  - .1 individual registered or licensed to practice their respective design profession as defined by the statutory requirements of the professional registration laws of the province, state or jurisdiction in which the Project is to be constructed.

**1.08 CERTIFICATIONS**

- .1 Ensure that certification of Products, processes, and systems includes physical and examination testing as specified in ASTM E329 SO 9001 to confirm compliance with Specifications requirements.

**1.09 COORDINATION**

- .1 Coordinate and schedule tests and inspections with accredited testing, inspection agencies as indicated in Contract Documents and in accordance with ASTM E329 requirements.
- .2 Coordinate Contractor's Quality Management system with the Consultant for reporting, scheduling access and incidental labor required by Quality Auditor's reports if required.
- .3 When attendance is required, notify the Consultant in advance before proceeding with tests and inspections, and additional tests and inspections as may be reasonably requested by the Consultant.
- .4 Coordinate testing and inspections schedule with Subcontractor, testing agencies, and other affected parties.

**1.10 SITE SAMPLES**

- .1 Testing agency is responsible for obtaining representative samples of those materials required to be tested and evaluated in accordance with the Contractual Documents.
- .2 Ensure testing agency performs sampling in accordance with ASTM E329.
  - .1 When sampling collection is required by testing agency, ensure proper protection, handling and storing of samples.

- .3 Testing agency to document procedures and appropriate techniques to select samples.
- .4 Record details of environmental conditions present during the sampling, such as rain or freezing weather that may affect testing of sample or interpretation of test results.

#### 1.11 Mock-ups

- .1 Mock-ups can be used as a reference for assessing quality of workmanship and site-applied finishes as requested in the Project's Contract Documents.
- .2 Prepare mock-ups for Work specifically requested in Specifications. Except when required in other sections, obtain the Consultant's Acceptance to construct and install mock-ups. When not required, Contractor shall indicate the use of mock-ups in their Quality Management Plan.
- .3 Assemble mock-ups at the Place of the Work in locations acceptable to the Consultant, or where location is indicated in the technical Specifications.
- .4 Schedule mock-ups ready for the Consultant review and Acceptance in orderly sequence, to avoid delays in Work.
  - .1 Failure to prepare mock-ups in ample time is not considered sufficient reason to request an extension of Contract Time. Claims for extension of Contract Time by reason of such default will not be considered.
- .5 Consult with the Consultant in scheduling dates for construction and review of mock-ups. Provide sufficient notice as directed by the Consultant.
- .6 Construct mock-ups using materials, finishes, colours, and methods proposed for the completed Work. Mock-ups to demonstrate proposed workmanship and range of aesthetic appearance.
- .7 Where a mock-up represents or affects multiple Specification sections, coordinate activities to ensure mock-ups are complete.
- .8 Modify or replace mock-ups when unacceptable to the Consultant.
- .9 Maintain acceptable mock-ups in an undisturbed condition as a standard for judging the completed Work.
- .10 Demolish and remove mock-ups at conclusion of the Work or when Acceptable to the Consultant.

**END OF SECTION**

## **1 GENERAL**

### **1.01 REFERENCE STANDARDS**

1. Canadian Construction Documents Committee (CCDC)
  - .1 CCDC 2-2020, Stipulated Price Contract.

### **1.02 SUMMARY**

- .1 This Section describes administrative and procedural requirements for reactive activities to verify that completed Work conforms to Contract Documents requirements.
- .2 Having inspection and testing agencies employed by Contractor or the Owner does not relieve the Contractor of their responsibility to perform Work in accordance with Contract Documents.

### **1.03 ADMINISTRATIVE REQUIREMENTS**

- .1 Allow and coordinate access to Work on site, manufacturing off site, and fabrication off site with inspection and testing agencies, the Consultant and the Owner.
- .2 Retain and pay for inspection and testing that are designated for Contractor's own Quality Management Plan, and when testing and inspection are required by Authorities Having Jurisdiction (AHJ).
- .3 Provide advanced notice, minimum five (05) Working Days to the Consultant and to each inspection/testing agency for inspection and testing required by Contract Documents or by (AHJ).
- .4 Where Owner cooperation, input or participation is required to fully perform inspection and test activities, particularly in relation to the correct operation of Products Supplied by Other and installed by the Contractor, provide a minimum ten (10) Working Days' notice to the Consultant.
- .5 In advance of each test, notify appropriate agency and the Consultant in the order that attendance arrangements can be made.
- .6 Employment of inspection and testing agencies does not relax or remove responsibility to perform Work in accordance with Contract Documents.

### **1.04 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Submit in accordance with Section 01 33 00 – Submittal Procedures.
- .2 Submit schedule of testing and inspection activities to the Consultant, applicable Subcontractors, testing agencies, Owner, and other affected parties. Include the following:
  - .1 List each testing and inspection agency

- .2 Identify types of tests and inspections for each agency, and cross reference to applicable specification section number-title in Contract Documents
  - .3 Description of test and inspection
  - .4 Identify applicable reference standard
  - .5 Identify test and inspection method
  - .6 Indicate number of each test and inspection required
- .3 Submit one digital copy of each quality assurance inspection and test report to the Consultant, except where a technical Specification section indicates otherwise.
  - .4 Submit reports for inspection and testing required by Contract Documents or by AHJ and performed by Contractor-retained inspection and testing agencies within ten (10) Working Days after inspection or test is completed, except where a technical Specification section indicates a different time period.
  - .5 Submit one digital copy of each quality control inspection and test report to the Consultant, except where a technical Specification section indicates otherwise. Maintain copies available at Place of the Work in accordance with Section 01 78 00 - Closeout Submittals.
  - .6 Deliver copies of quality control reports to Subcontractor of Work being inspected or tested.

#### **1.05 SITE QUALITY CONTROL PROCEDURES**

- .1 Provide labor, Construction Equipment, and temporary facilities to obtain and handle test samples and materials on site. Arrange for sufficient space to store and cure test samples.
- .2 Deliver samples and materials required for testing, as requested in technical Specification sections. Submit with reasonable promptness and in an orderly sequence to avoid delays in Work.
- .3 Before Project start, photograph Project site and existing conditions in accordance with Section 01 33 00 – Submittal Procedures.

#### **1.06 TESTING AND INSPECTION SERVICES**

- .1 The Owner may retain and pay for independent inspection and testing agencies to inspect, test, or perform other quality control reviews of parts of the Work, in addition to those carried by the Contractor.
- .2 Consultant may order any part of the Work to be reviewed or inspected if the Work is suspected to be not in accordance with Contract Documents. If, upon review such Work is found not in accordance with Contract Documents, the Contractor shall correct such Work and pay cost of additional review and correction.
- .3 Provide equipment required for executing inspection and testing by appointed agencies.
- .4 If defects are revealed during inspection and/or testing, appointed agency will request additional inspection and testing to ascertain full degree of defect. Correct defect and irregularities as advised

by Consultant at no cost to Owner. Pay costs for retesting and re-inspection.

- .5 Quality control testing and inspection reports to include the following:
  - .1 Project name and number
  - .2 Testing/Inspection agency's name, address, telephone number, and website
  - .3 Date of issuing report
  - .4 Dates and locations of tests, inspections, or samples
  - .5 Description of the Work and test and inspection method
  - .6 Numbers and titles of associated Specification sections
  - .7 Test and inspection data and interpretation of test results (e.g., pass or fail)
  - .8 Ambient conditions at time of test, inspection, or sampling
  - .9 Recommendations on re-testing and re-inspecting, if applicable.

**END OF SECTION**

## **1 GENERAL**

### **1.01 REFERENCE STANDARDS**

- .1 Canadian Construction Documents Committee (CCDC)
  - .1 CCDC 2-2020, Stipulated Price Contract.
- .2 Canadian General Standards Board (CGSB)
  - .1 CAN/CGSB 1.189-[00], Exterior Alkyd Primer for Wood.
  - .2 CGSB 1.59-[97], Alkyd Exterior Gloss Enamel.
- .3 CSA Group (CSA)
  - .1 CSA-A23.1/A23.2-[04], Concrete Materials and Methods of Concrete Construction/Methods of Test and Standard Practices for Concrete.
  - .2 CSA-0121-[M1978(R2003)], Douglas Fir Plywood.
  - .3 CAN/CSA-S269.2-[M1987(R2003)], Access Scaffolding for Construction Purposes.
  - .4 CAN/CSA-Z321-[96(R2001)], Signs and Symbols for the Occupational Environment.
- .4 U.S. Environmental Protection Agency (EPA) / Office of Water
  - .1 EPA 832R92005, Storm Water Management for Construction Activities: Developing Pollution Prevention Plans and Best Management Practices.

### **1.02 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Provide Submittals in accordance with Section 01 33 00 - Submittal Procedures.

### **1.03 INSTALLATION AND REMOVAL**

- .1 For each Place of the Work prepare site plan indicating proposed location and dimensions of the Construction Area to be fenced and used by Contractor, number of trailers if required, area for parking vehicles, avenues of ingress/egress to fenced area and details of fence installation. Construction Area shall be within the area indicated in the Contract Drawings. Submit site plan to Consultant for review and Acceptance.
- .2 Indicate use of supplemental or other staging areas.
- .3 Provide construction facilities in order to execute Work expeditiously.
- .4 After use remove from site all such work installed under this section 01 52 00 – Construction Facilities. Reinstate area to same or better state before start of Project.

### **1.04 SCAFFOLDING**

- .1 Scaffolding in accordance with CAN/CSA-S269.2.
- .2 Provide and maintain scaffolding, ramps, ladders, platforms, temporary stairs.

### **1.05 HOISTING**

- .1 Provide, operate and maintain hoists, cranes required for moving of workers, materials and equipment. Make financial arrangements with Subcontractors for their use of hoists.
- .2 Hoists and cranes to be operated by qualified operator.

**1.06 ELEVATORS**

- .1 When applicable, permanent elevators are not to be used by Contractor, Subcontractor or supplier personnel or for transporting of materials unless approved by the Owner. Co-ordinate use with the Owner if use is permitted.
- .2 If use of elevators is approved by the Owner, provide protective coverings for finish surfaces of walls, floors and entrances.

**1.07 SITE STORAGE/LOADING**

- .1 Confine Work and operations of employees to the Construction Area. Do not unreasonably encumber premises with Products.
- .2 Do not load or permit to load any part of Work with weight or force that will endanger Work. Be solely responsible and liable for damages resulting from violation of this requirement.
- .3 Products shall be stored only in areas designated or approved by the Consultant and shall not be left on the ground or in undesignated areas.
- .4 Site storage and loading requirements to be in accordance with Ontario Occupational Health and Safety Act and Regulations for Construction Projects.

**1.08 CONSTRUCTION PARKING**

- .1 Parking may be permitted on site provided it does not disrupt performance of Work. Arrange with the Consultant and obtain approval before site usage. Show location of agreed parking on site plan.
- .2 Parking within the Construction Area shall be managed by the Contractor as long as it does not affect work performance or Safety.
- .3 Provide and maintain adequate access to Project sites.
- .4 Parking arrangements shall be in accordance with location specific restrictions contained in section 011400 – Work Restrictions.

**1.09 TEMPORARY SECURITY**

- .1 Contractor is responsible for the security of the Place of the Work and any off-site other locations used by the Contractor for the execution of the Contract such as off-site temporary storage spaces.
  - .1 Temporary Site Security:
    - 1. Site Fencing: Before beginning excavation and before construction activities begin, provide temporary site enclosure fencing with lockable gates to prevent unauthorized access.
    - 2. Extent of Fencing: To enclose entire Project site or a portion sufficient to accommodate construction activities as indicated on Drawings.

3. Distribute gate keys to authorized personnel only. Supply Consultant and Owner with one set of keys each.
- .2 Temporary Building Security:
  1. Install temporary enclosure around partially completed areas of construction. Provide lockable entrances to prevent unauthorized access, vandalism, theft, and similar security violations.
  2. Distribute building entrance keys to authorized personnel only. Supply Owner and Consultant with one set of keys each.

#### **1.10 OFFICES**

- .1 Provide one field office for the duration of the Work. The field office can be located within the Contractor Construction trailer and shall have proper heating, lighting, and ventilation and be of sufficient size to accommodate site meetings.
- .2 Provide one workspace in field office for use by the Owner and the Consultant.
- .3 Provide marked and fully stocked first-aid case in a readily available location.
- .4 Subcontractors to provide their own offices as necessary. Arrange with the Consultant location of these offices.
- .5 Maintain offices in a clean condition.

#### **1.11 EQUIPMENT, TOOL AND MATERIALS STORAGE**

- .1 Provide and maintain, in clean and orderly condition, lockable weatherproof storage space (seacans, sheds, etc.) for storage of tools, equipment and materials.
- .2 Locate materials not required to be stored in weatherproof storage space on site in manner to cause least interference with work activities.
- .3 Ensure all equipment, tools and materials (including salvaged material) are stored clear of the rail Right of Way in a position where it they will not interfere with train operations and employee movements. Ensure all equipment, tools and materials and are secured in such a manner that they cannot fall or be placed foul of the rail line.

#### **1.12 SANITARY FACILITIES**

- .1 Provide sanitary facilities for workforce in accordance with governing regulations and ordinances and in accordance with 01 51 00 – Temporary Facilities.
- .2 Post notices and take precautions as required by local health authorities. Keep area and premises in sanitary condition.

#### **1.13 CONSTRUCTION SIGNAGE**

- .1 No other signs or advertisements, other than warning signs, are permitted on site.
- .2 Signs and notices for safety and instruction in English Graphic symbols to CAN/CSAZ321.
- .3 Maintain approved signs and notices in good condition for duration of Project and dispose of offsite on completion of Project or earlier if directed by the Consultant.

- .4 Provide signage in compliance O. Reg. 213/91 CONSTRUCTION PROJECTS, Canada Occupational Health and Safety Regulations SOR/86-304, Ontario Occupational Health and Safety Act, R.S.O. 1990 and applicable laws and standards.
- .5 The Owner may supply or instruct the Contractor to supply other signs. Signs shall be installed by the Contractor. Specification of signage will be provided by the Owner. Any additional cost will be valued as per Contract Documents.

#### **1.14 PROTECTION AND MAINTENANCE OF TRAFFIC**

- .1 Provide access and temporary relocated roads as necessary to maintain traffic.
- .2 Maintain and protect traffic on affected roads during construction period except as otherwise specifically directed by the Consultant.
- .3 Provide measures for protection and diversion of traffic, including provision of watch-persons and flag-persons, erection of barricades, placing of lights around and in front of equipment and work, and erection and maintenance of adequate warning, danger, and direction signs
- .4 Protect travelling public from damage to person and property.
- .5 Contractor's traffic on roads selected for hauling material to and from site to interfere as little as possible with public traffic.
- .6 Verify adequacy of existing roads and allowable load limit on these roads. Contractor shall be responsible for repair of damage to roads caused by construction operations.
- .7 Construct access and haul roads necessary only after obtaining the Consultant's approval.
- .8 Access roads: constructed with suitable grades and widths; sharp curves, blind corners, and dangerous cross traffic shall be avoided.
- .9 Provide necessary lighting, signs, barricades, and distinctive markings for safe movement of traffic.
- .10 Dust control: adequate to ensure safe operation at all times.
- .11 Location, grade, width, and alignment of construction and hauling roads: subject to approval by the Owner.
- .12 Lighting: to assure full and clear visibility for full width of access road and work areas during night work operations.
- .13 Provide snow removal during period of Work.
- .14 Remove, upon completion of Work, access roads designated by the Owner.

#### **1.15 CLEAN-UP**

- .1 Remove construction debris, waste materials, packaging material from work site daily.
- .2 Clean dirt or mud tracked onto paved or surfaced roadways.
- .3 Store materials resulting from demolition activities that are salvageable.
- .4 Stack stored new or salvaged material not in construction facilities at a location approved by the Consultant.

**2.01 TEMPORARY EROSION AND SEDIMENTATION CONTROL**

- .1 Provide temporary erosion and sedimentation control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, according to requirements of Authorities Having Jurisdiction, sediment and erosion control drawings, sediment and erosion control plan, specific to site, that complies with EPA 832/R-92-005 or requirements of Authorities Having Jurisdiction, whichever is more stringent.
- .2 Inspect, repair, and maintain erosion and sedimentation control measures during construction until permanent vegetation has been established.
- .3 Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.

**END OF SECTION**

1 General

**1.1 SUMMARY**

- .1 This Specification covers the operational requirements and traffic control for heavy civil contracts when roadway traffic is to be accommodated during construction.
- .2 The Contractor shall complete all Work relevant to this section in accordance with Ontario Provincial Standard Specification (OPSS):
  - .1 OPSS.PROV 706 – TEMPORARY TRAFFIC CONTROL DEVICES
  - .2 Sections – Measurement for Payment and Basis of Payment are not used.

**1.2 RELATED REQUIREMENTS**

- .1 Section 32 11 16.01 - Granular Sub-base
- .2 Section 32 11 23 - Aggregate Base Courses
- .3 Section 32 12 16 - Asphalt Paving

**1.3 REFERENCE STANDARDS**

- .1 Canadian Construction Documents Committee (CCDC)
  - .1 CCDC 2-2020, Stipulated Price Contract.
- .2 Ministry of Transportation, Ontario (MTO) – Ontario Traffic Manual, Book 7: Temporary Conditions.

**1.4 PROTECTION OF PUBLIC TRAFFIC**

- .1 Comply with requirements of Acts, Regulations and By-Laws in force for regulation of traffic or use of roadways upon or over which it is necessary to carry out Work or haul materials or equipment.
- .2 When working on travelled way:
  - .1 Place equipment in position to minimize interference and hazard to travelling public.
  - .2 Keep equipment units as close together as working conditions permit and preferably on same side of travelled way.
  - .3 Do not leave equipment on travelled way overnight.
- .3 Close lanes of road only after receipt of written approval from Owner and Authority Having Jurisdiction (AHJ).
  - .1 Before re-routing traffic, erect suitable signs and devices to Ontario Traffic Manual, Book 7: Temporary Conditions.
- .4 Keep travelled way graded, free from potholes and of sufficient width for required number of lanes of traffic.
  - .1 Provide 7 m wide minimum temporary roadway for traffic in two-way sections through Work and on detours.
  - .2 Provide 5 m wide minimum temporary roadway for traffic in one-way sections through Work and on detours.
- .5 Provide gravelled detours or temporary roads as needed to facilitate passage of traffic around restricted construction area:

- .1 Place and compact granular sub-base in accordance with Section 32 11 16.01- Granular Sub-base.
- .2 Place and compact granular base in accordance with Section 32 11 23- Aggregate Base Courses.
- .3 Place and compact asphalt concrete pavement in accordance with Section 32 12 16 - Asphalt Paving.
- .6 Provide and maintain road access and egress to property fronting along Work under Contract and in other areas as indicated, except where other means of road access exist that meet approval of Owner and AHJ.

**1.5 INFORMATION AND WARNING DEVICES**

- .1 Provide and maintain signs and other devices required to indicate construction activities or other temporary and unusual conditions resulting from Project Work which requires road user response.
- .2 Supply and erect signs, delineators, barricades and miscellaneous warning devices to Ontario Traffic Manual, Book 7: Temporary Conditions.
- .3 Place signs and other devices in locations recommended in Ontario Traffic Manual, Book 7: Temporary Conditions.
- .4 Meet with Owner and AHJ, as needed, prior to commencement of Work to prepare list of signs and other devices required for project. If situation on site changes, revise list to approval of Owner and AHJ.
- .5 Continually maintain traffic control devices in use:
  - .1 Check signs daily for legibility, damage, suitability and location. Clean, repair or replace to ensure clarity and reflectance.
  - .2 Remove or cover signs which do not apply to conditions existing from day to day.

**1.6 CONTROL OF PUBLIC TRAFFIC**

- .1 Provide competent flag personnel, trained in accordance with, and properly equipped to Ontario Traffic Manual, Book 7: Temporary Conditions for situations as follows:
  - .1 When public traffic is required to pass working vehicles or equipment that block all or part of travelled roadway.
  - .2 When it is necessary to institute one-way traffic system through construction area or other blockage where traffic volumes are heavy, approach speeds are high and traffic signal system is not in use.
  - .3 When workmen or equipment are employed on travelled way over brow of hills, around sharp curves or at other locations where oncoming traffic would not otherwise have adequate warning.
  - .4 Where temporary protection is required while other traffic control devices are being erected or taken down.
  - .5 For emergency protection when other traffic control devices are not readily available.
  - .6 In situations where complete protection for workers, working equipment and public traffic is not provided by other traffic control devices.
  - .7 At each end of restricted sections where pilot cars are required.
  - .8 Delays to public traffic due to contractor's operators: 15 minutes maximum.

- .2 Where roadway, carrying two-way traffic, is restricted to one lane, for 24 hours each day, provide portable traffic signal system.
  - .1 Adjust, as necessary, and regularly maintain system during period of restriction.
  - .2 Ensure signal system meets requirements of Ontario Traffic Manual, Book 7: Temporary Conditions.

**1.7 OPERATIONAL REQUIREMENTS**

- .1 Maintain existing conditions for traffic throughout period of contract except that, when required for construction under contract and when measures have been taken as specified and approved by Owner and AHJ to protect and control public traffic, existing conditions for traffic to be restricted.
- .2 Maintain existing conditions for traffic crossing right-of-way.

2 Products

**NOT USED**

3 Execution

**NOT USED**

**END OF SECTION**

## 1 GENERAL

### 1.01 REFERENCE STANDARDS

- .1 Canadian Construction Documents Committee (CCDC)
  - .1 CCDC 2-2020, Stipulated Price Contract.
- .2 Canadian General Standards Board (CGSB)
  - .1 CGSB 1.59-[97], Alkyd Exterior Gloss Enamel.
  - .2 CAN/CGSB 1.189-[00], Exterior Alkyd Primer for Wood.
- .3 CSA Group (CSA)
  - .1 CSA-O121-[M1978(R2003)], Douglas Fir Plywood.

### 1.02 RELATED REQUIREMENTS

- .1 Section 01 14 00 – Work Restrictions
- .2 Section 01 52 00 – Construction Facilities
- .3 Section 01 55 26 – Traffic Controls
- .4 Section 01 57 00 – Temporary Controls.
- .5 Section 01 74 00 – Cleaning
- .6 Section 01 74 19 – Waste Management and Disposal.

### 1.03 INSTALLATION AND REMOVAL

- .1 Provide temporary controls in order to execute Work expeditiously.
- .2 Remove from site all such work after use.

### 1.04 HOARDING

- .1 Unless otherwise specified, erect temporary site enclosures using self-supporting 1.8m high metal fence. Provide lockable truck gate(s). Maintain fence in good repair.
- .2 Provide barriers around trees and plants designated to remain. Protect from damage by equipment and construction procedures.

### 1.05 GUARD RAILS AND BARRICADES

- .1 Provide secure, rigid guard rails and barricades as required by applicable Laws, codes and governing authorities.

### 1.06 WEATHER ENCLOSURES

- .1 Provide weather tight closures to unfinished door and window openings, and other openings in floors and roofs.

- .2 Close off floor areas where walls are not finished; seal off other openings; enclose building interior work for temporary heat.
- .3 Design enclosures to withstand wind pressure and snow loading.

#### **1.07 DUST TIGHT SCREENS**

- .1 Provide dust tight screens or insulated partitions to localize dust generating activities, and for protection of workers, finished areas of Work and public.
- .2 Maintain and relocate protection until such Work is complete.

#### **1.08 ACCESS TO SITE**

- .1 Provide and maintain access roads, sidewalk crossings, ramps and construction runways as may be required for access to Work.

#### **1.09 PUBLIC TRAFFIC FLOW**

- .1 Provide and maintain competent signal flag operators, traffic signals, barricades and flares, lights, or lanterns as required to perform Work and protect public.
- .2 Ensure public use of operational facilities is protected appropriately. Reference section 01 14 00 – Work Restrictions, for details of operational facilities.

#### **1.10 FIRE ROUTES**

- .1 Maintain access to property including overhead clearances for use by emergency response vehicles.

#### **1.11 PROTECTION FOR OFF-SITE AND PUBLIC PROPERTY**

- .1 Protect surrounding private and public property from damage during performance of Work.
- .2 Be responsible for damage incurred.

#### **1.12 PROTECTION OF FINISHES**

- .1 Provide protection for finished and partially finished finishes and equipment during performance of Work.
- .2 Provide necessary screens, covers, and hoardings.
- .3 Confirm with the Owner locations and installation of protection of finishes five (5) Working Days prior to installation.
- .4 Be responsible for damage incurred due to lack of or improper protection.

#### **1.13 WASTE MANAGEMENT AND DISPOSAL**

- .1 Separate waste materials for recycling in accordance with Sections 01 74 00 – Cleaning and 01 74 19 – Waste Management and Disposal.

**END OF SECTION**

**1 GENERAL**

**1.01 SUMMARY**

- .1 This Specification covers the requirements for temporary controls of soil erosion and sediment loss, control of pests, control of pollution entering the soil, prevention of pollution in stormwater, control of site dust, and site security.

**1.02 REFERENCE STANDARDS**

- .1 Canadian Construction Documents Committee (CCDC)
  - .1 CCDC 2-2020, Stipulated Price Contract.
- .2 The Contractor shall complete all Work relevant to this section in accordance with Ontario Provincial Standard Specification (OPSS):
  - .1 OPSS.PROV 804 – TEMPORARY EROSION CONTROL
  - .2 OPSS.PROV 805 – TEMPORARY SEDIMENT CONTROL
  - .3 Sections – Measurement for Payment and Basis of Payment are not used.

**1.03 TEMPORARY PEST CONTROL**

- .1 Perform pest control to minimize attraction and harboring of rodents, insects, and other pests. Perform extermination and control procedures at regular intervals.
- .2 Project shall be free of pests and their residues at Substantial Performance of the Work.
- .3 Perform pest control in accordance with integrated pest management principles with no hazardous or toxic substances released into stormwater or environment.

**1.04 TEMPORARY ENVIRONMENTAL CONTROL**

- .1 Use construction methods that comply with environmental regulations and minimize possible air, waterway, and subsoil contamination and pollution.
- .2 Meetings: Train persons on equipment fueling, spill prevention and response, good housekeeping protocols, material handling, and waste material handling before their first day on site.
- .3 Management:
  - .1 Monitor and repair leaks of polluting liquids on vehicles. Prevent leaks of antifreeze, brake fluid, diesel fuel, gasoline, oil, transmission fluid, and other liquids that may be harmful to the environment or storm drainage systems.
  - .2 Store petroleum products in clearly labelled sealed containers. Provide spill kits and impermeable tarps at fueling and maintenance areas.
  - .3 Supply a collection skid or similar material for waste materials.
  - .4 Tightly seal and store paint containers, sealers, and curing compounds in a protected location when not required. Prevent excess materials from discharging into storm drainage system.
  - .5 Prevent concrete trucks from discharging surplus concrete or drum wash water on site.
  - .6 Place absorbent materials to soak up excess form release agents. Replace absorbent materials when saturated.
  - .7 When applying fertilizer, minimize the discharge of pollutants into stormwater.

**1.05 TEMPORARY SITE DUST CONTROL**

- .1 Provide measures to prevent airborne dust to adjacent properties and walkways

according to requirements of AHJ and meeting requirements of authority having jurisdiction, including but not limited to the local municipality.

- .2 Create and implement a site-specific dust control plan.
- .3 Dust Control Windbreaks: Geotextile fabric attached to snow or temporary site fencing with fence posts and tie wires. Other measures will be considered.
- .4 If surface water taking in excess of 50,000 L/day is required for dust suppression or other activities, the contractor is to prepare an Environmental Activity and Sector Registry (EASR) as outlined in Ontario Regulation 63/16 (O. Reg.), made under the Environmental Protection Act, Registrations Under Part 11.2 of the Act – Water Taking.

**1.06 TEMPORARY SECURITY**

- .1 Temporary Site Security:
  - .1 Site Fencing: Before beginning excavation and before construction activities begin, provide temporary site enclosure fencing with lockable gates to prevent unauthorized access.
  - .2 Extent of Fencing: To enclose entire Project site or a portion sufficient to accommodate construction activities as indicated on Drawings.
  - .3 Distribute gate keys to authorized personnel only. Supply Owner with one set of keys.
- .2 Temporary Building Security:
  - .1 Install temporary enclosure around partially completed areas of construction. Provide lockable entrances to prevent unauthorized access, vandalism, theft, and similar security violations.
  - .2 Distribute building entrance keys to authorized personnel only. Supply Owner with one set of keys.

**1.07 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Submit information in accordance with Section 01 33 00 - Submittal Procedure.
- .2 Submit the following:
  - .1 Stormwater Pollution Control Plan (SWPCP): Submit SWPCP indicating methods, plans, and details of controls including:
    - .1 SWPCP coordinator information and their responsibilities
    - .2 Stormwater pollution prevention team to assist in implementation of SWPCP during construction
    - .3 Description of existing site conditions, including:
      - .1 existing land use of the site, such as wooded areas, grassed areas, pavements, buildings, and other structures,
      - .2 location of surface waters on or adjacent to Project site, such as lakes, ponds, rivers, streams, wetlands, and similar water features,
      - .3 soil types on Project site,
      - .4 water bodies that will receive site runoff, including the eventual main body of water that receives stormwater, and

- .5 drainage areas and potential stormwater contaminants.
- .4 Stormwater management controls and various Best Management Practices required to reduce erosion, sediment, and pollutants in stormwater discharge.
- .5 Proposed waste water management equipment and materials.
- .6 Facility monitoring plan and how controls will be coordinated with construction activities.
- .7 Schedule and allowances to amend the plan if required.
- .8 Sample inspection log.
- .2 Erosion and Sedimentation Control Plan:
  - .1 Submit drawings indicating location of erosion and dust control methods,
  - .2 Describe methods for maintaining, cleaning and repairing erosion and dust control methods, and
  - .3 Submit product data indicating actual materials including:
    - .1 Measures used to prevent soil loss by stormwater runoff and wind erosion.
    - .2 Methods used to protect soil stockpiles and berms.
    - .3 Methods used to prevent loss of sediment into storm sewers or adjacent waterways.
    - .4 Methods to prevent site dust and particulate matter pollution.
- 3 During the course of work, submit detailed digital photographs indicating temporary sediment and erosion control measures.
- .4 Site Quality Control Submittals: Submit logs of inspection and maintenance of control measures.

**2 PRODUCTS**

**2.1 REGULATORY REQUIREMENTS**

- .1 Protect storm sewers and roadways in accordance with local municipal requirements.
- .2 Protect waterways and ground water in accordance with AHJ.
- .3 The Contractor is notified of the presence of existing utilities within Project limits, including but not limited to Bell, North Bay Hydro, Enbridge, Hydro One, Northern Ontario Wire. Care shall be taken during construction operations to avoid damages to the existing utilities. The Contractor shall provide protection and/or support to all existing utilities as required to facilitate their construction operations. The Contractor shall familiarize themselves with utility plans prior to undertaking works in these locations.

**3 EXECUTION**

**3.1 CLOSEOUT ACTIVITIES**

- .1 Remove temporary control measures shortly before Substantial Performance of the Work or when acceptable to the Owner.

- 
- .2 Restore landscape areas that were damaged by temporary control measures.

### 3.2 MAINTENANCE

- .1 Inspection and Maintenance:
  - .1 Inspect, repair, and maintain temporary control measures during construction.
  - .2 Inspect control measures weekly to prevent unwanted situations such as odours, mosquitoes, and weeds. Confirm control measures are working properly. Repair or replace when required.
  - .3 Repair silt fences and erosion control fabric when damaged.
  - .4 Perform non-routine inspection and maintenance arising from unplanned incidents such as repairs after severe weather and accidental damage.
  - .5 Record each inspection and maintenance event in a daily log. Keep a copy of logs at the Project site. Maintain permanent file of logs until final acceptance of the Work.

**END OF SECTION**

## 1 GENERAL

### 1.01 REFERENCE STANDARDS

- .1 Canadian Construction Documents Committee (CCDC)
  - .1 CCDC 2-2020, Stipulated Price Contract.

### 1.02 RELATED REQUIREMENTS

- .1 Section 01 11 00 - Summary Of Work.
- .2 Section 01 45 00 - Quality Control.
- .3 Section 01 73 00 – Execution.

### 1.03 QUALITY

- .1 Products, materials, equipment and articles incorporated in Work shall be new, not damaged or defective, and of best quality for purpose intended. If requested, furnish evidence as to type, source and quality of Products provided.
- .2 Procurement policy is to acquire, in cost effective manner, items containing highest percentage of recycled and recovered materials practicable consistent with maintaining satisfactory levels of competition. Make reasonable efforts to use recycled and recovered materials in execution of Work.
- .3 Defective Products, whenever identified prior to completion of Work, will be rejected, regardless of previous inspections. Inspection does not relieve responsibility but is precaution against oversight or error. Remove and replace defective Products at own expense and be responsible for delays and expenses caused by rejection.
- .4 Permanent labels, trademarks and nameplates on Products are not acceptable in prominent locations, except where required for operating instructions, or when located in mechanical or electrical rooms.
- .5 Unless otherwise indicated in Specifications, maintain uniformity of manufacture for any particular or like item.
- .6 Permanent labels, trademarks and nameplates on Products are not acceptable in prominent locations, except where required for operating instructions, or when located in mechanical or electrical rooms.

### 1.04 AVAILABILITY

- .1 Immediately upon signing Contract, review Product delivery requirements and anticipate foreseeable supply delays for items. If delays in supply of Products are foreseeable, notify the Consultant of such, in order that substitutions or other remedial action may be authorized in ample time to prevent delay in performance of Work.
- .2 In event of failure to notify the Consultant at commencement of Work and should it subsequently appear that Work may be delayed for such reason, the Owner reserves right to substitute more

readily available products of similar character, at no increase in Contract Price or Contract Time.

#### **1.05 STORAGE, HANDLING AND PROTECTION**

- .1 Handle and store Products in a manner to prevent damage, adulteration, deterioration and soiling and in accordance with manufacturer's instructions when applicable.
- .2 Store packaged or bundled Products in original and undamaged condition with manufacturer's seal and labels intact. Do not remove from packaging or bundling until required in Work.
- .3 Store Products subject to damage from weather in weatherproof enclosures.
- .4 Store cementitious Products clear of earth or concrete floors, and away from walls.
- .5 Keep sand, when used for grout or mortar materials, clean and dry. Store sand on wooden platforms and cover with waterproof tarpaulins during inclement weather.
- .6 Store sheet materials, lumber, etc. on flat, solid supports and keep clear of ground. Slope to shed moisture.
- .7 Store and mix paints in heated and ventilated room. Remove oily rags and other combustible debris from site daily. Take every precaution necessary to prevent spontaneous combustion.
- .8 Remove and replace damaged Products at own expense and to satisfaction of the Consultant.
- .9 Touch-up damaged factory finished surfaces at own expense and to the Consultant satisfaction. Use touch-up materials to match original. Do not paint over name plates.

#### **1.06 TRANSPORTATION**

- .1 Pay costs of transportation of Products required in performance of Work, unless otherwise specified.
- .2 Transportation cost of Products Supplied By Others will be paid for by the Owner. Unload, handle, store and protect such Products.

#### **1.07 MANUFACTURER'S INSTRUCTIONS**

- .1 Unless otherwise indicated in Specifications, install or erect Products in accordance with manufacturer's instructions. Do not rely on labels or enclosures provided with Products. Obtain written instructions directly from manufacturers.
- .2 Notify the Consultant in writing, of conflicts between Specifications and manufacturer's instructions, so that the Consultant will establish course of action.
- .3 Improper installation or erection of Products, due to failure in complying with these requirements, authorizes the Consultant to require removal and re-installation at no increase in Contract Price or Contract Time.

#### **1.08 QUALITY OF WORK**

- .1 Ensure quality of Work is of highest standard, executed by workers experienced and skilled in

respective duties for which they are employed. Immediately notify the Consultant if required Work is such as to make it impractical to produce required results.

- .2 Do not employ anyone unskilled in their required duties. The Owner and the Consultant reserve the right to require dismissal from site workers deemed incompetent or careless.
- .3 Decisions as to standard or fitness of Quality of Work in cases of dispute rest solely with the Consultant, whose decision is final.

#### **1.09 CO-ORDINATION**

- .1 Ensure co-operation of workers in laying out Work. Maintain efficient and continuous supervision.
- .2 Be responsible for coordination and placement of openings, sleeves and accessories.
- .3 Co-ordinate with the Consultant delivery times. Ensure to provide sufficient notices for large deliveries that may impact traffic or block roads.

#### **1.10 CONCEALMENT**

- .1 In finished areas conceal pipes, ducts and wiring in floors, walls and ceilings, except where indicated otherwise.
- .2 Before installation, inform the Consultant if there is interference. Install as directed by the Consultant.

#### **1.11 REMEDIAL WORK**

- .1 Perform remedial work required to repair or replace parts or portions of Work identified as defective or unacceptable. Co-ordinate adjacent affected Work as required.
- .2 Perform remedial work by specialists familiar with materials affected. Perform in a manner to neither damage nor put at risk any portion of Work.

#### **1.12 LOCATION OF FIXTURES**

- .1 Consider location of fixtures, outlets, and mechanical and electrical items indicated as approximate.
- .2 Inform the Consultant of conflicting installation and propose alternative solution for Acceptance.

#### **1.13 FASTENINGS**

- .1 Provide metal fastenings and accessories in same texture, colour and finish as adjacent materials, unless indicated otherwise.
- .2 Prevent electrolytic action between dissimilar metals and materials.
- .3 Use non-corrosive hot dip galvanized steel fasteners and anchors for securing exterior work, unless stainless steel or other material is specifically requested in affected specification Section.
- .4 Space anchors within individual load limit or shear capacity and ensure they provide positive permanent anchorage. Wood, or any other organic material plugs are not acceptable.

- .5 Keep exposed fastenings to a minimum, space evenly and install neatly.
- .6 Fastenings which cause spalling or cracking of material to which anchorage is made are not acceptable.

#### **1.14 FASTENINGS - EQUIPMENT**

- .1 Use fastenings of standard commercial sizes and patterns with material and finish suitable for service.
- .2 Unless otherwise specified, use heavy hexagon heads, semi-finished. Use No. 304 stainless steel for exterior areas.
- .3 Bolts may not project more than one diameter beyond nuts.
- .4 Use plain type washers on equipment, sheet metal and soft gasket lock type washers where vibrations occur. Use resilient washers with stainless steel.

#### **1.15 PROTECTION OF WORK IN PROGRESS**

- .1 Prevent overloading of parts of building or structures. Do not cut, drill or sleeve load bearing structural member, unless specifically indicated without written approval of the Consultant.

#### **1.16 EXISTING UTILITIES**

- .1 When breaking into or connecting to existing services or utilities, execute Work at times directed by local governing authorities, with minimum of disturbance to Work, [and/or building occupants] [and pedestrian and vehicular traffic].
- .2 Protect, relocate or maintain existing active services. When services are encountered, cap off in manner approved by authority having jurisdiction. Stake and record location of capped service.

**END OF SECTION**

## 1 GENERAL

### 1.01 REFERENCE STANDARDS

- .1 Canadian Construction Documents Committee (CCDC)
  - .1 CCDC 2-2020, Stipulated Price Contract.

### 1.02 RELATED REQUIREMENTS

- .1 Section 01 33 00 - Submittal Procedures.
- .2 Section 01 45 00 – Quality Control.

### 1.03 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit the following before Work begins at the Place of Work:
  - .1 Service locations: Document locations and extents of service lines in work areas.
- .3 Submit the following informational submittals as Work progresses:
  - .1 Land Survey information: Name address, and registration information.
- .4 Submit documentation that verifies accuracy of site engineering work when requested by the Consultant.
- .5 Submit certificate signed by surveyor indicating elevations and locations of completed Work that conform to Contract Documents and those that do not conform.

### 1.04 QUALIFICATIONS

- .1 Surveyor: Qualified, registered land surveyor, licensed to practice at the Place of the Work, and acceptable to the Consultant.

### 1.05 SETTING OUT OF WORK

- .1 Survey existing conditions and correlate with all requirements indicated in the Specifications.
- .2 Assume full responsibility for and execute complete layout of work to locations, lines and elevations indicated.
- .3 Provide devices needed to lay out and construct work.
- .4 Review existing conditions and identify, in writing to the Consultant, any conditions that differ materially from those indicated in the Contract Documents.

### 1.06 RECORDS

- .1 Maintain a complete, accurate log of control and survey work as Work progresses.
- .2 On completion of foundations and major site improvements, prepare a certified survey showing

dimensions, locations, angles, and elevations of Work. Keep copies available at the job site with other progress documentation. Submit to the Consultant at request.

- .3 Record locations of maintained, re-routed, and abandoned service lines.
- .4 Provide a final survey of building and structure location, surrounding grades as affected by the Work and buried utilities.

### **1.07 SUBSURFACE CONDITIONS**

- .1 Promptly notify the Consultant in writing if subsurface conditions at Place of Work differ materially from those indicated in Contract Documents, or a reasonable assumption of probable conditions based thereon.
- .2 After prompt investigation, should the Consultant determine that conditions do differ materially, instructions will be issued by the Owner for changes in Work as provided in Changes and Change Orders.

### **1.08 LOCATION OF EQUIPMENT AND FIXTURES**

- .1 Location of equipment, fixtures and outlets indicated or specified are to be considered as approximate.
- .2 Employ competent person to lay out Work in accordance with the Contract Documents.
- .3 Locate equipment, fixtures and distribution systems to provide minimum interference and maximum usable space in accordance with manufacturer's recommendations for safety, access and maintenance.
- .4 Submit Shop Drawings which indicate relative position of various services and equipment to the Consultant for review and Acceptance. Contractor is responsible for coordination of all equipment and services before installation.

### **2.01 NOT USED**

- .1 Not Used.

### **3.01 EXAMINATION REQUIREMENTS**

- .1 Verification of Conditions:
  - .1 Verify that substrate and other conditions are acceptable for installation of materials, assemblies, and systems in accordance with manufacturer's instructions and recommendations.
  - .2 Inspect existing conditions, including elements subject to damage or movement during cutting and patching.
  - .3 After uncovering, inspect conditions affecting performance of Work.
  - .4 Examine conditions, with installers, for defects affecting performance of the Work. Where Work of one Section depends on Work of other Sections being properly completed, verify

that Work is complete and suitable to receive the subsequent work.

- .5 Proceed with installation only after unacceptable conditions are remedied.
  - .6 Proceeding with cutting, patching, or installation will be considered Contractor's acceptance of existing conditions.
- .2 Existing Services:
- .1 Confirm locations and extent of service lines in area of Work before beginning work on site. Submit findings.
  - .2 Immediately notify the Consultant if unknown services are encountered. Confirm findings in writing.
  - .3 Remove abandoned service lines within 2 m of structures. Cap or seal lines at cut-off points as indicated on Drawings.
- .3 Pre-Installation Testing:
- .1 Perform manufacturer-recommended pre-installation site test of substrate and submit to the Consultant a report of test results indicating whether test results meet the manufacturer's minimum requirements and recommendations.
- .4 Evaluation and Assessment:
- .1 Verify that pre-existing substrate conditions are acceptable for installation of materials, assemblies, and systems in accordance with manufacturer's instructions and recommendations.
  - .2 Proceed with installation only after unacceptable conditions are remedied. The remedial work will be completed by the Contractor to the satisfaction of the Consultant. Cost of such remedial work shall be as per Contract Documents.

### 3.02 PREPARATION

- .1 Protection of In-Place Conditions:
- .1 Provide supports to ensure structural integrity of surroundings. Provide devices and methods to protect other portions of Project from damage.
  - .2 Provide protection from weather and other potentially damaging conditions at areas which will be exposed when uncovering work. Maintain excavations free of water.
- .2 Perform surface preparation in compliance with Contract Documents.
- .3 Survey Reference Points:
- .1 Locate and confirm reference points before starting site Work. Protect permanent reference points during construction.
  - .2 Changes or relocations should not be made without prior written notice to the Consultant.
  - .3 Notify the Consultant if a reference point is lost or destroyed.
  - .4 Surveyor to replace reference points in accordance with original land survey.
  - .5 Notify the Consultant if a reference point requires relocation because of necessary changes in grades or locations.

4 Survey Requirements:

- .1 Unless otherwise indicated in Specifications, establish minimum two permanent benchmarks on site, referenced to established benchmarks by survey reference points. Record locations with horizontal and vertical data in Project As-Built Record Drawings.
  - .2 Establish lines and levels, location and layout, by instrumentation.
  - .3 Stake for grading, fill and topsoil placement and landscaping features.
  - .4 Stake slopes and berms.
  - .5 Establish pipe invert elevations.
  - .6 Stake batter boards for foundations.
  - .7 Establish foundation column locations and floor elevations.
  - .8 Establish lines and levels for mechanical and electrical work.
- .5 If Contractor is found to be in error, all costs incurred to correct condition shall be assumed by the Contractor, unless otherwise specified in Contract Documents.

**END OF SECTION**

**1 GENERAL**

**1.01 SECTION INCLUDES**

- .1 Common requirements for installing, applying, and erecting Products. Includes procedures and Submittals for cutting and patching to existing conditions and required repairs arising from tests and destructive inspections.

**1.02 REFERENCE STANDARDS**

- 1. Canadian Construction Documents Committee (CCDC)
  - 1. CCDC 2-2020, Stipulated Price Contract.

**1.03 RELATED REQUIREMENTS**

- .1 Section 01 14 00 – Work Restrictions
- .2 Section 01 33 00 - Submittal Procedures.
- .3 Section 01 45 00 – Quality Control.

**1.04 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit proof of anchor and fastener load carrying capacity for a work result, when requested.
- .3 Submit written request in advance of cutting or altering to existing conditions which may affect the following:
  - .1 structural integrity of existing elements: Submit structural details and calculations performed by a professional structural engineer registered or licensed in Province of Ontario, Canada for the Consultant review and Acceptance. Include evidence of unsatisfactory structural integrity of the elements according to the Consultant.
  - .2 integrity of weather-exposed and moisture-resistant elements.
  - .3 efficiency, maintenance, safety, or accessibility of operational elements.
  - .4 visual qualities of sight-exposed elements.
  - .5 Work of Owner or other contractor(s).
- .4 Submit a request for cutting or altering which includes:
  - .1 identification of the Project; and
  - .2 location and description of affected existing conditions including changes to structural elements, function of elements, and visual appearance of existing elements; and the

location and identification of utilities that will be temporarily out of service during cutting and patching activities.

- .5 Submit site plan drawings for each Place of the Work indicating relative location of various services and equipment upon the request of the Consultant.
- .6 Submit a work plan for review and Acceptance including:
  - .1 a statement why cutting or altering is unavoidable and describe alternatives to cutting and patching if available;
  - .2 a description of proposed Work and proposed Products;
  - .3 specific description of reinstatement activities following completion of the Work.
  - .4 the effect of cutting or altering on work by Owner or other contractors;
  - .5 written acknowledgment by other contractors affected by cutting or altering, if applicable; and
  - .6 proposed date(s) and time(s) Work will be executed.

### **1.05 QUALIFICATIONS**

- .1 Engage a structural engineer licensed at the Place of Work, to submit details and calculations when altering existing structural elements.

## **2 PRODUCTS**

### **2.01 MATERIALS**

- .1 Patching Materials: If possible, use the same materials found in the existing conditions, except in fire-resistance rated materials and assemblies.
- .2 Materials visible from the floor area: Use materials that visually match existing adjacent surfaces and match existing functional performance.

## **3 EXECUTION**

### **3.01 COMMON INSTALLATION/APPLICATION/ERECTION REQUIREMENTS**

- .1 Fit several parts together, to integrate with other Work.
- .2 Remove and replace defective and non-conforming Work.
- .3 Unless otherwise indicated in Specifications, install, or erect Products in accordance with manufacturer's instructions. Do not rely on labels or enclosures provided with Products. Obtain

written instructions directly from manufacturers.

- .4 Notify the Consultant in writing, of conflicts between Specifications and manufacturer's instructions, so that the Consultant can establish course of action.
- .5 Improper installation or erection of Products, due to failure in complying with these requirements, authorizes the Consultant to require removal and re-installation at no increase in Contract Price or Contract Time.
- .6 Provide openings in non-structural elements for penetrations of mechanical and electrical Work.
- .7 Conceal pipes, ducts and wiring in floor, wall, partition, and ceiling assemblies in finished areas, except as indicated otherwise.
- .8 In addition to the manufacturer's recommendations for safety, access, accessibility, and maintenance, locate equipment, fixtures, and distribution systems where it shall provide minimal interference and shall maximize on usable space.
  - .1 Location of equipment, fixtures, and outlets indicated on Drawings and in Specifications are approximate.
  - .2 Notify the Consultant of impending installation and obtain Acceptance for actual locations.

**3.02 BRACING AND ANCHORING**

- .1 Anchors and Fasteners: Unless otherwise indicated elsewhere:
  - .1 Provide any necessary anchors and fasteners to fasten each component securely for its intended purpose. Allow for building movement, including from thermal expansion and contraction of materials and assemblies.
  - .2 Prevent electrolytic reaction between dissimilar metals and materials.
  - .3 Provide hot-dip galvanized or stainless steel anchors and fasteners for securing exterior work;
  - .4 Locate anchors and fasteners within individual load limit or shear capacity. Ensure anchors and fasteners are permanently secured.
  - .5 Where exposed to view, evenly distribute anchors and fasteners in a single area; and
  - .6 Where exposed to view, provide metal anchors, fasteners, and related accessories with the same texture, colour, and finish as adjacent materials.
- .2 Non-Conforming Work: Anchors and fasteners installed which cause substrate cracks or spalling are not acceptable.

**3.03 CUTTING AND PATCHING**

- .1 Proceed with cutting and patching only after the review and Acceptance by the Consultant of all Submittals listed in Article 1.03, Actions and Informational Submittals.

- .2 Perform cutting, fitting, and patching including excavation and fill, to complete Work in accordance with related technical Specification sections.
- .3 Use special techniques to avoid damaging existing conditions that will remain, and which will result in proper surfaces to receive patching and finishing.
- .4 Employ original installer to perform cutting and patching for weather-exposed elements, moisture-resistant elements, and surfaces exposed to view.
- .5 Cut rigid materials using masonry saw, core drill, or other tool recommended by the Product manufacturer or applicable industry association. Pneumatic or impact tools are not allowed on masonry work without the approval of the Consultant.
- .6 Fit Work airtight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.
- .7 Refinish surfaces to match adjacent finishes. Refinish continuous surfaces to nearest intersection (e.g., edges of partition). Refinish assemblies by refinishing entire unit. Provide entire surface with uniform finish, colour, and texture.

**3.04 ADJUSTING**

- .1 Remove and replace patching that is visually unsatisfactory to the Consultant.

**END OF SECTION**

## 1 GENERAL

### 1.01 REFERENCE STANDARDS

- .1 Canadian Construction Documents Committee (CCDC)
  - .1 CCDC 2-2020, Stipulated Price Contract.

### 1.02 PROJECT CLEANLINESS

- .1 Maintain Place of the Work in tidy condition, free from accumulation of waste material and debris.
- .2 Remove waste materials from site at daily regularly scheduled times or dispose of as directed by the Consultant.
- .3 Do not burn waste materials on site.
- .4 Clear snow and ice from access to Place of the Work, bank/pile snow in designated areas only approved by Owner, or remove from site, as agreed upon at outset of Contract.
- .5 Make arrangements with and obtain permits from Authorities Having Jurisdiction (AHJ) for disposal of waste and debris.
- .6 Provide on-site steel containers for collection of waste materials and debris.
- .7 Provide and use marked separate bins for recycling. Refer to Section 01 74 19 - Waste Management and Disposal.
- .8 Dispose of waste materials and debris at appropriate off-site facilities.
- .9 Clean interior areas prior to start of finishing Work and maintain areas free of dust and other contaminants during finishing operations.
- .10 Store volatile waste in covered metal containers and remove from premises at end of each Working Day, unless authorized otherwise by the Consultant.
- .11 Provide adequate ventilation during use of volatile or noxious substances. Use of existing or new ventilation systems is not permitted for this purpose.
- .12 Use only cleaning materials recommended by manufacturer of surface to be cleaned, and as recommended by cleaning material manufacturer.
- .13 Schedule cleaning operations so that resulting dust, debris and other contaminants will not fall on wet, newly painted surfaces nor contaminate new or existing systems or facilities.

### 1.03 FINAL CLEANING

- .1 When Work is Substantially Performed remove surplus Products, tools, Construction Equipment not required for performance of remaining Work.
- .2 Remove waste products and debris other than that caused by others and leave Place of the Work clean and suitable for occupancy.

- .3 Prior to final review, remove remaining surplus Products, tools and Construction Equipment.
- .4 Remove waste materials from site at regularly scheduled times or dispose of as directed by Owner or the Consultant.
- .5 Do not burn waste materials on site.
- .6 Make arrangements with and obtain permits from Authorities Having Jurisdiction (AHJ) for disposal of waste and debris.
- .7 Clean and polish glass, mirrors, hardware, wall tile, stainless steel, chrome, porcelain enamel, baked enamel, plastic laminate, wood, and mechanical and electrical fixtures. Replace broken, scratched or disfigured glass.
- .8 Remove stains, spots, marks and dirt from decorative work, electrical and mechanical fixtures, furniture fitments, walls, floors and ceilings, and at exterior of building.
- .9 Clean lighting reflectors, lenses, and other lighting surfaces.
- .10 Vacuum, clean, and dust interiors, behind grilles, louvres and screens.
- .11 Wax, seal, shampoo or prepare floor finishes, as recommended by manufacturer.
- .12 Inspect finishes, fitments and equipment and ensure specified workmanship and operation.
- .13 Broom clean and wash exterior walks, steps and surfaces; rake clean other surfaces of grounds.
- .14 Remove dirt and other disfiguration from exterior surfaces.
- .15 Clean and sweep roofs, gutters, areaways, and sunken wells.
- .16 Sweep and wash clean paved areas.
- .17 Clean equipment and fixtures to sanitary condition; clean or replace filters of mechanical equipment.
- .18 Clean roofs, downspouts, and drainage systems.
- .19 Remove debris and surplus materials from crawl areas and other accessible concealed spaces.
- .20 Remove snow and ice from access to Place of the Work.

**1.04 WASTE MANAGEMENT AND DISPOSAL**

- .1 Separate waste materials for recycling in accordance with Section 01 74 19 - Waste Management and Disposal.

**END OF SECTION**

## 1 GENERAL

### 1.01 SUMMARY

- .1 The Project shall generate the least amount of waste possible. Contractor shall implement processes to ensure the generation of as little waste as possible due to error, poor planning, breakage, mishandling, contamination, or other factors be employed by the Contractor.

### 1.02 REFERENCE STANDARDS

- .1 Canadian Construction Documents Committee (CCDC)
  - .1 CCDC 2-2020, Stipulated Price Contract.
- .2 ASTM International (ASTM)
  - .1 ASTM E1609 01, Standard Guide for Development and Implementation of a Pollution Prevention Program

### 1.03 DEFINITIONS

- .1 Clean Waste: Untreated and unpainted; not contaminated with oils, solvents, sealants or similar materials.
- .2 Construction and Demolition Waste: Solid wastes typically including building materials, packaging, trash, debris, and rubble resulting from construction, re-modeling , repair and demolition operations.
- .3 Hazardous: Exhibiting the characteristics of hazardous substances including properties such as ignitability, corrosiveness, toxicity, or reactivity.
- .4 Non-hazardous: Exhibiting none of the characteristics of hazardous substances, including properties such as ignitability, corrosiveness, toxicity, or reactivity.
- .5 Non-toxic: Not poisonous to humans either immediately or after a long period of exposure.
- .6 Recyclable: The ability of a product or material to be recovered at the end of its life cycle and remanufactured into a new product for reuse by others.
- .7 Recycle: To remove a waste material from the Project site to another site for remanufacture into a new product for reuse by others.
- .8 Recycling: The process of sorting, cleansing, treating and reconstituting solid waste and other discarded materials for the purpose of using the altered form; recycling does not include burning, incinerating, or thermally destroying waste.
- .9 Return: To give back reusable items or unused products to vendors for credit.
- .10 Reuse: To reuse a construction waste material in some manner on the Project site.
- .11 Salvage: To remove a waste material from the Project site to another site for resale or reuse by others.

- .12 Sediment: Soil and other debris that has been eroded and transported by storm or well production run off water.
- .13 Source Separation: The act of keeping different types of waste materials separate beginning from the first time they become waste.
- .14 Toxic: Poisonous to humans either immediately or after a long period of exposure.
- .15 Trash: Any product or material unable to be reused, returned, recycled, or salvaged.
- .16 Volatile Organic Compounds (VOC's): Chemical compounds common in and emitted by many building products over time through outgassing:
  - .1 Solvents in paints and other coatings;
  - .2 Wood preservatives; strippers and household cleaners;
  - .3 Adhesives in particleboard, fiberboard, and some plywood; and foam insulation.
  - .4 When released, VOC's can contribute to the formation of smog and can cause respiratory tract problems, headaches, eye irritations, nausea, damage to the liver, kidneys, and central nervous system, and possibly cancer.
- .17 Waste: Extra material or material that has reached the end of its useful life in its intended use. Waste includes salvageable, returnable, recyclable, and reusable material.

#### **1.04 RELATED REQUIREMENTS**

- .1 Section 01 31 19 - Project Meetings
- .2 Section 01 33 00 - Submittal Procedures
- .3 Section 01 51 00 - Temporary Utilities
- .4 Section 01 74 00 – Cleaning.

#### **1.05 ADMINISTRATIVE REQUIREMENTS**

- .1 Coordination: Coordinate waste management requirements with all divisions of the Work for the Project and ensure that requirements of the Waste Management Plan (WMP) are followed.
- .2 Preconstruction Meeting: During the pre-construction meeting arranged in accordance with Section 01 31 19 - Project Meetings, discuss the Contractor's Waste Management Plan and to develop mutual understanding of the requirements for a consistent policy towards waste reduction and recycling.

#### **1.06 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Submit required information in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Action Submittals: Provide the following Submittals for Acceptance before starting any Work of this section:
  - .1 WMP: Submit to the Consultant for review a draft WMP including a preliminary analysis of

anticipated site-generated waste by listing a minimum of five (5) construction or demolition waste streams that have potential to generate the most volume of material indicating methods that will be used to divert construction waste from landfill and source reduction strategies. The Owner and the Consultant may provide comments within five (05) Working Days. Update as required and resubmit to the Consultant the final WMP for Acceptance within (05) Working Days.

- .2 WMP shall include, but not limited to:
  - .1 Material Streams: Analysis of the proposed jobsite waste being generated, including material types and quantities forming a part of identified material streams in the WMP materials removed from site destined for alternative daily cover at landfill sites and land clearing debris cannot be considered as contributing to waste diversion and will be included as a component of the total waste generated for the site.
  - .2 Recycling Haulers and Markets: Investigate local haulers and markets for recyclable materials, and incorporate into WMP.
  - .3 Alternative Waste Disposal: Prepare a listing of each material proposed to be salvaged, reused, recycled or composted during the course of the Project, and the proposed local market for each material.
  - .4 Landfill Materials: materials that cannot be recycled, reused or composted.
  - .5 Landfill Options: The name of the landfill where trash will be disposed of; landfill materials will form a part of the total waste generated by the Project.
  - .6 Materials Handling Procedures: A description of the means by which any recycled waste materials will be protected from contamination, and a description of the means to be employed in recycling the above materials consistent with requirements for acceptance by designated facilities.
  - .7 Transportation: A description of the means of transportation of the recyclable materials, whether materials will be site separated and self-hauled to designated centers, or whether mixed materials will be collected by a waste hauler and removed from the site, and destination of materials.

#### **1.07 PROJECT CLOSEOUT SUBMITTALS**

- .1 Diversion Documentation: Submit as constructed information in accordance with Section 01 78 00 - Closeout Submittals as follows:
  - .1 Waste Management Report: Submit for this Project in a format acceptable to submittal requirements and that includes the following information:
    - .1 Accounting: Submit information indicating total waste produced by the Project.
    - .2 Composition: Submit information indicating types of waste material and quantity of each material.
    - .3 Diversion Rate: Submit information indicating total waste diverted from landfill as a

percentage of the total waste produced by the Project.

- .4 Submit copies of transportation documents or shipping manifests indicating weights of materials, and other evidence of disposal indicating final location of waste diverted from landfill and waste sent to landfill.

### **1.08 DELIVERY, STORAGE, AND HANDLING**

- .1 Storage Requirements: Implement a recycling/reuse program that includes separate collection of waste materials as appropriate to the Project waste and the available recycling and reuse programs in the Project area.
  - .1 Provide separate containers for reusable and/or recyclable materials such as:
    - .1 Metals.
    - .2 Wood.
    - .3 Plastics
  - .2 Handling Requirements: Clean materials that are contaminated before placing in collection containers and ensure that waste destined for landfill does not get mixed in with recycled materials:
    - .1 Deliver materials free of dirt, adhesives, solvents, petroleum contamination, and other substances deleterious to recycling process.
    - .2 Arrange for collection by or delivery to the appropriate recycling or reuse facility.
  - .3 Hazardous Waste and Hazardous Materials: Handle in accordance with applicable regulations.

### **2.01 NOT USED**

- .1 Not Used.

### **3.01 WASTE MANAGEMENT PLAN IMPLEMENTATION**

- .1 Contractor is responsible for designating an on-site party or parties responsible for instructing workers and overseeing and documenting results of the WMP for the Project.
- .2 Distribute copies of the WMP to the job site foreman, each Subcontractor, the Owner, the Consultant and other site personnel as required to maintain WMP.
- .3 Provide on-site instruction of appropriate separation, handling, and recycling, salvage, reuse, composting and return methods being used for the Project to employees and Subcontractors at appropriate stages of the Project.
- .4 Layout and label a specific area to facilitate separation of materials for potential recycling, salvage, reuse, composting and return:
  - .1 Recycling and waste bin areas are to be kept neat and clean and clearly marked in order to avoid contamination of materials.
  - .2 Hazardous wastes shall be separated, stored, and disposed of in accordance with local

regulations.

- .5 Submit to the Consultant a monthly summary of waste generated by the Project including details of waste diverted for recycling:
  - .1 Submittal of waste summary can coincide with application for progress payment, or similar milestone event as agreed upon between the Owner and the Contractor.
  - .2 Monthly waste summary shall contain the following information:
    - .1 The amount in tonnes or m<sup>3</sup> and location of material landfilled,
    - .2 The amount in tonnes or m<sup>3</sup> and location of materials diverted from landfill, and
    - .3 Indication of progress based on total waste generated by the Project with materials diverted from landfill as a percentage.

### **3.02 CONTRACTOR'S RESPONSIBILITY**

- .1 Subcontractors shall cooperate fully with the Contractor to implement the WMP.
- .2 The Contractor shall be responsible for all additional costs incurred by the Owner and the Contractor arising from the failure to comply with the WMP.

**END OF SECTION**

**1.01 GENERAL REFERENCE STANDARDS**

- .1 Canadian Construction Documents Committee (CCDC)
  - .1 CCDC 2-2020, Stipulated Price Contract.

**1.02 ADMINISTRATIVE REQUIREMENTS**

- .1 Acceptance of Work Procedures:
  - .1 Contractor's Inspection: conduct inspection of Work, identify deficiencies and defects, and repair as required to conform to Contract Documents.
    - .1 Notify the Consultant in writing of satisfactory completion of Contractor's inspection and submit verification that corrections have been made.
    - .2 Request the Owner inspection.
  - .2 The Owner Inspection:
    - .1 The Owner, the Consultant and the Contractor will inspect the Work and identify defects and deficiencies.
    - .2 Contractor to correct Work as directed.
  - .3 Completion Tasks: submit written certificates in English that tasks have been performed as follows:
    - .1 Work: completed and inspected for compliance with Contract Documents.
    - .2 Defects: corrected and deficiencies completed.
    - .3 Equipment and systems: tested, adjusted and balanced and fully operational.
    - .4 Certificates required by Authority Having Jurisdiction submitted and approved.
    - .5 Operation of systems: demonstrated to Owner's personnel.
    - .6 Commissioning of equipment and systems: completed in accordance with 01 91 13 - GENERAL COMMISSIONING REQUIREMENTS and copies of final Commissioning Report submitted to the Consultant.
    - .7 Apply for certification of Substantial Performance of the Work and Ready-For-Takeover in accordance with the Contract Documents.
    - .8 Submit all Close-Out Documentation described in GC 5.5.1.2. and section 01 78 00 - Closeout Submittals
    - .9 Work: complete and ready for final inspection.
  - .4 Final Inspection:
    - .1 When completion tasks are done, request final inspection of Work by the Owner and the Consultant.
    - .2 When Work is incomplete according to the Owner or the Consultant, complete outstanding items and request re-inspection.

**1.03 FINAL CLEANING**

- .1 Clean in accordance with Section 01 74 00 - Cleaning.
  - .1 Remove surplus materials, excess materials, rubbish, tools and equipment.
- .2 Waste Management: separate waste materials for recycling in accordance with Section 01 74 19 - Waste Management and Disposal.

**END OF SECTION**

## 1 GENERAL

### 1.01 REFERENCE STANDARDS

- .1 Canadian Construction Documents Committee (CCDC)
  - .1 CCDC 2-2020, Stipulated Price Contract.

### 1.02 SUMMARY

- .1 Comply with the requirements of this section and other related sections. When the Project is being completed at multiple sites, the requirements shall be met at each location as applicable.

### 1.03 ADMINISTRATIVE REQUIREMENTS

- .1 Pre-warranty Meeting:
  - .1 Convene meeting with the Owner and the Consultant, in accordance with Section 01 31 19 - Project Meetings to:
    - .1 Verify Project requirements.
    - .2 Review manufacturer's installation instructions and warranty requirements.
    - .3 Establish communication procedures for:
      - .1 Notifying construction warranty defects.
      - .2 Determine priorities for type of defects.
      - .3 Determine reasonable response time.
  - .2 Contact information for bonded and licensed company for warranty work action: provide name, telephone number and address of company authorized for construction warranty work action.
  - .3 Ensure contact is located within local service area of warranted construction, is continuously available, and is responsive to inquiries for warranty work action.

### 1.04 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Provide Submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit to the Consultant for review and Acceptance the operating and maintenance manual (in English). Schedule the Submittal such that Acceptance is received prior to the commencement of training of O&M personnel.
- .3 Following completion of training of operations and maintenance personnel, provide four hard (4) copies and an electronic copy in PDF format of finalized operations and maintenance manual.
- .4 Provide spare parts, maintenance materials and special tools of same quality and manufacture as Products provided in Work.
- .5 Provide evidence, if requested, for type, source and quality of Products supplied.
- .6 Provide a complete set of As-Built Record Drawings sealed by an engineer licensed in the province

of Ontario.

- .7 Provide all other required Closeout Documentation in accordance with the Contract Documents.

## **1.05 OPERATIONS AND MAINTENANCE MANUAL**

### **.1 FORMAT**

- .1 Organize data as an instructional manual.
- .2 Binders: Vinyl, hard covered, 3 'D' ring, loose leaf [219 x 279] mm with spine and face pockets.
- .3 When multiple binders are used correlate data into related consistent groupings:
  - .1 Identify contents of each binder on spine.
- .4 Cover: Identify each binder with type or printed title 'Project Record Documents'; list title of Project and identify subject matter of contents.
- .5 Arrange content under section numbers and sequence of Table of Contents.
- .6 Provide tabbed fly leaf for each separate Product and system, with typed description of product and major component parts of equipment.
- .7 Text: manufacturer's printed data, or typewritten data.
- .8 Drawings: provide with reinforced punched binder tab.
  - .1 Bind in with text; fold larger drawings to size of text pages.
- .9 Provide CAD files in dwg format.

### **.2 CONTENTS**

- .1 Table of Contents for Each Volume: provide title of Project;
  - .1 Date of submission; names.
  - .2 Addresses, and telephone numbers of Consultant and Contractor with name of responsible parties.
  - .3 Schedule of Products and systems, indexed to content of volume.
- .2 Include the following contents:
  - .1 As-Built Record Drawings
  - .2 Product data, and samples.
  - .3 Site test records.
  - .4 Inspection certificates.
  - .5 Manufacturer's certificates.
  - .6 Inventory of spare parts, special tools and maintenance materials.
  - .7 Maintenance Management System (MMS) identification system used.

- .8 WHMIS information.
- .9 WHMIS Safety Data Sheets (SDS).
- .10 Electrical Panel inventory containing a detailed inventory of electrical circuitry for each panel board. Duplicate of inventory inside each panel.
- .11 Other documents as required and specified in other sections of Specifications.
- .12 Provide digital photos, if requested, for site records.
- .3 For each Product or system:
  - .1 List names, addresses and telephone numbers of Subcontractors and suppliers, including local source of supplies and replacement parts.
- .4 Product Data: mark each sheet to identify specific Products and component parts, and data applicable to installation; delete inapplicable information.
- .5 Provide a set of As-Built Record Drawings that accurately reflect as-constructed, as-built or as-fabricated Work and that have been sealed by a professional engineer licensed in the Province of Ontario.
  - .1 Provide hard copies within the operations and maintenance manuals and electronic copies in both native CAD format and PDF.
  - .2 Label each document "AS-BUILT RECORD" in neat, large, printed letters.
- .6 Drawings: supplement Product data to illustrate relations of component parts of equipment and systems, to show control and flow diagrams.
- .7 Typewritten Text: As required to supplement Product data.
  - .1 Provide logical sequence of instructions for each procedure, incorporating manufacturer's instructions.
- .7 Label record documents and file in accordance with section number listings.
- .8 Maintain record documents in clean, dry and legible condition.
  - .1 Do not use record documents for construction purposes.
- .9 Keep record documents and samples available for inspection by the Owner and the Consultant.
- .10 Specifications: mark each item to record actual construction, including:
  - 1. Manufacturer, trade name, and catalogue number of each Product actually installed particularly optional items and substitute items.
  - .2 Changes made by Addenda and Change Orders.
- .11 Training: Refer to Section 01 79 00 - Demonstration and Training.

**.3 EQUIPMENT AND SYSTEMS**

- .1 For each item of equipment and each system include description of unit or system, and component parts.
- .2 Give function, normal operation characteristics and limiting conditions.
- .3 Include performance curves, with engineering data and tests, and complete nomenclature and commercial number of replaceable parts.

- 
- .4 Panel board circuit directories: provide electrical service characteristics, controls, and communications.
  - .5 Include installed colour coded wiring diagrams.
  - .6 Operating Procedures: include start-up, break-in, and routine normal operating instructions and sequences.
    1. Include regulation, control, stopping, shut-down, and emergency instructions.
    2. Include summer, winter, and any special operating instructions.
  - .7 Maintenance Requirements: include routine procedures and guide for trouble-shooting; disassembly, repair, and reassembly instructions; and alignment, adjusting, balancing, and checking instructions.
  - .8 Provide servicing and lubrication schedule, and list of lubricants required.
  - .9 Include manufacturer's printed operation and maintenance instructions.
  - .10 Include sequence of operation by controls manufacturer.
  - .11 Provide original manufacturer's parts list, illustrations, assembly drawings, and diagrams required for maintenance.
  - .12 Provide installed control diagrams by controls manufacturer.
  - .13 When applicable, provide Contractor's coordination drawings, with installed colour-coded piping diagrams.
  - .14 When applicable, provide charts of valve tag numbers, with location and function of each valve, keyed to flow and control diagrams.
  - .15 Provide list of original manufacturer's spare parts, current prices, and recommended quantities to be maintained in storage.
  - .16 Include test and balancing reports as specified in Section 01 45 00 - Quality Control and Section 01 91 13 - General Commissioning Requirements.
  - .17 Additional requirements: As specified in individual Specification sections.

#### **.4 MATERIALS AND FINISHES**

- .1 Building Products, applied materials, and finishes: Include Product data, with catalogue number, size, composition, and colour and texture designations.
  - .1 Provide information for re-ordering custom manufactured products.
  - .2 Instructions for cleaning agents and methods, precautions against detrimental agents and methods, and recommended schedule for cleaning and maintenance.
  - .2 Moisture-protection and weather-exposed Products: Include manufacturer's recommendations for cleaning agents and methods, precautions against detrimental agents and methods, and recommended schedule for cleaning and maintenance.
  - .3 Additional requirements: As specified in individual Specifications sections.

**1.06 FINAL SURVEY**

- .1 Submit final site survey certificate in accordance with Section 01 71 00 - Examination and Preparation, certifying that elevations and locations of completed Work are in conformance, or non-conformance with Contract Documents.

**1.07 MAINTENANCE MATERIALS**

- .1 Spare Parts:
  - .1 Provide spare parts, in quantities specified in individual Specification sections.
  - .2 Provide items of same manufacture and quality as items in Work.
  - .3 Deliver to site; place and store.
  - .4 Receive and catalogue items.
    - .1 Submit inventory listing to the Consultant.
    - .2 Include approved listings in operation & maintenance manual.
  - .5 Obtain receipt for delivered products and submit before final payment.
- .2 Extra Stock Materials:
  - .1 Provide maintenance and extra materials, in quantities specified in individual Specification sections.
  - .2 Provide items of same manufacture and quality as items in Work.
  - .3 Deliver to site; place and store.
  - .4 Receive and catalogue items.
    - .1 Submit inventory listing to the Consultant.
    - .2 Include approved listings in operation & maintenance manual.
  - .5 Obtain receipt for delivered Products and submit before final payment.
- .3 Special Tools:
  - .1 Provide special tools, in quantities specified in individual Specification section.
  - .2 Provide items with tags identifying their associated function and equipment.
  - .3 Deliver to site; place and store.
  - .4 Receive and catalogue items.
    - .1 Submit inventory listing to the Consultant.
    - .2 Include approved listings in operation & maintenance manual.

**1.08 DELIVERY, STORAGE, AND HANDLING**

- .1 Store, at a location agreed with the Consultant, spare parts, maintenance materials, and special

tools in a manner to prevent damage or deterioration.

- .2 Store in original and undamaged condition with manufacturer's seal and labels intact.
- .3 Store components subject to damage from weather in weatherproof enclosures.
- .4 Store paints and freezable materials in a heated and ventilated room.
- .5 Remove and replace damaged Products at own expense to the satisfaction of the Owner and the Consultant.

### 1.09 WARRANTIES AND BONDS

- .1 Develop warranty management plan to contain information relevant to warranties and extended warranties.
- .2 Submit warranty management plan, twenty (20) Working Days before planned pre-warranty meeting, to the Consultant review and Acceptance.
- .3 Warranty management plan to include required actions and documents to assure that the Owner receives all warranties to which it is entitled.
- .4 Provide plan in narrative form and contain sufficient detail to make it suitable for use by future maintenance and repair personnel.
- .5 Submit, warranty information made available during construction phase with each application for payment.
- .6 Assemble approved information in binder, submit upon acceptance of Work and organize binder as follows:
  - .1 Separate each warranty or bond with index tab sheets keyed to Table of Contents listing.
  - .2 List Subcontractor, supplier, and manufacturer, with name, address, and telephone number of responsible principal.
  - .3 Obtain warranties and bonds, executed in duplicate by Subcontractors, suppliers, and manufacturers, within ten (10) days after completion of applicable item of work.
  - .4 Verify that documents are in proper form, contain full information, and are notarized.
  - .5 Co-execute Submittals when required.
  - .6 Retain warranties and bonds until time specified for submittal.
- .7 Except for items put into use with Owner's permission, leave date of beginning of time of warranty until Date of Early Occupancy or Ready-for-Takeover is verified.
- .8 Conduct joint 04 month and 09 month warranty inspection, measured from date determined above in clause 1.14.7.
- .9 Include information contained in warranty management plan as follows:
  - .1 Roles and responsibilities of personnel associated with warranty process, including points of contact and telephone numbers within the organizations of Contractors, Subcontractors, manufacturers, or suppliers involved.
  - .2 Listing and status of delivery of Certificates of Warranty for extended warranty items.
  - .3 Provide list for each warranted equipment, item, feature of construction or system indicating:

- .1 Name of item.
- .2 Model and serial numbers.
- .3 Location where installed.
- .4 Name and phone numbers of manufacturers or suppliers.
- .5 Names, addresses and telephone numbers of sources of spare parts.
- .6 Warranties and terms of warranty: include one-year overall warranty of construction. Indicate items that have extended warranties and show separate warranty expiration dates.
- .7 Cross-reference to warranty certificates as applicable.
- .8 Starting point and duration of warranty period.
- .9 Summary of maintenance procedures required to continue warranty in force.
- .10 Cross-Reference to specific pertinent Operation and Maintenance manuals.
- .11 Organization, names and phone numbers of persons to call for warranty service.
- .12 Typical response time and repair time expected for various warranted equipment.
- .4 Contractor's plans for attendance at 04 and 09 month post-construction warranty inspections.
- .5 Procedure and status of tagging of equipment covered by extended warranties.
- .6 Post copies of instructions near selected pieces of equipment where operation is critical for warranty and/or safety reasons.
- .10 Respond in timely manner to oral or written notification of required construction warranty repair work.
- .11 Written verification to follow oral instructions.

**1.10 WARRANTY TAGS**

- .1 Tag, at time of installation, each warranted item. Provide durable, oil- and water-resistant tag approved by Owner.
- .2 Attach tags with copper wire and spray with waterproof silicone coating.
- .3 Leave date of Acceptance until Project is accepted for occupancy.
- .4 Indicate the following information on tag:
  - .1 Type of product/material.
  - .2 Model number.
  - .3 Serial number.
  - .4 Contract number.
  - .5 Warranty period.
  - .6 Inspector's signature.
  - .7 Construction Contractor.

END OF SECTION

## **1 GENERAL**

### **1.01 SUMMARY**

**1.02** This section includes general requirements relating to commissioning (Cx) of Project components and systems, specifying general requirements for performance verification (PV) of components, equipment, sub-systems, systems, and integrated systems.

### **1.03 REFERENCE STANDARDS**

- .1 Canadian Construction Documents Committee (CCDC)
  - .1 CCDC 2-2020, Stipulated Price Contract.

### **1.04 RELATED REQUIREMENTS**

- .1 Section 01 31 19 – Project Meetings
- .2 Section 01 32 16.16 Construction Progress Schedule Critical Path Method
- .3 Section 01 45 00 - Quality Control.
- .4 Section 01 77 00 - Closeout Procedures.
- .5 Section 01 78 00 - Closeout Submittals.
- .6 Section 01 79 00 - Demonstration and Training.
- .7 01 91 13.13 – Commissioning Plan
- .8 01 91 13.16 – Commissioning Forms

### **1.05 ABBREVIATIONS**

- .1 AFD: Alternate Forms of Delivery, service provider
- .2 Cx: Commissioning
- .3 EMCS: Energy Monitoring and Control Systems
- .4 O&M: Operations and Maintenance.
- .5 PI: Product Information
- .6 PV: Performance Verification
- .7 TAB: Testing, Adjusting and Balancing.

### **1.06 ADMINISTRATIVE REQUIREMENTS**

- .1 Coordination:
  - .1 The Consultant will observe some or all commissioning activities at their discretion.
  - .2 Owner's Performance Testing: Performance testing of equipment or systems by the Owner or the Consultant will not relieve Contractor from compliance with specified start-up and testing procedures.
  - .3 Cooperate fully with the Owner and the Consultant during stages of Acceptance and Ready-for-Takeover.
  - .4 Coordination with Authorities Having Jurisdiction (AHJ):
    - .1 Where specified start-up, testing or commissioning procedures duplicate verification requirements of AHJ, arrange for AHJ to witness procedures to avoid duplication of tests and to facilitate an earlier acceptance of equipment or facility.
    - .2 Obtain certificates of approval, acceptance, and compliance with rules and regulations of AHJ.
    - .3 Submit copies of certificates to the Consultant within three (03) days of test.
- .2 Commissioning Meetings:
  - .1 Arrange Cx meeting(s) as per this section and in accordance with other Specification sections.
  - .2 Provide agenda, in accordance with section 01 91 13 – Project Meetings, a minimum of five (05) Working Days before meeting(s).
  - .3 Use Cx meetings to resolve issues, monitor progress, and identify defects and deficiencies relating to Cx.
  - .4 Continue Cx meetings on a regular basis, including during equipment start-up period, and functional testing period until commissioning deliverables have been addressed.
  - .5 At 60% construction completion stage arrange a separate Cx scope meeting to review progress, discuss schedule of equipment start-up activities and prepare for Cx. Additional agenda topics include the following:
    - .1 Review duties and responsibilities of Contractor and Subcontractors, addressing delays and potential problems.
    - .2 Determine the degree of involvement of Subcontractors and manufacturer's representatives in the Cx process.
  - .6 Ensure Subcontractors and relevant manufacturer representatives are present at 60% construction completion stage, at subsequent Cx meetings, and when otherwise required.
- .3 Observation of Starting and Testing:
  - .1 Provide twenty (20) Working Days' notice before beginning commissioning.

- .2 The Owner and the Consultant will observe start-up and testing.
- .3 The Consultant and/or Owner may be present at tests performed and documented by Subcontractors, suppliers, and equipment manufacturers.
- .4 Conflicts:
  - .1 Report conflicts between requirements of this section and other sections to the Consultant and obtain interpretation or clarification before starting commissioning work.
  - .2 Failure to report conflicts and obtain interpretation or clarification will result in application of the more stringent requirement.
- .5 Excess Administration:
  - .1 Contractor shall pay the costs related to Consultant's excess contract administration if third and subsequent verifications occur where:
    - .1 Verification of reported results fail to receive the Owner or Consultant's Acceptance.
    - .2 Repetition of second verification again fails to receive Acceptance.
    - .3 The Consultant deems Contractor's request for second verification was premature.
  - .2 The cost of the Consultant's excess contract administration will be based on a rate of \$260 per hour.

**1.07 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
  - .1 Submit, for review and Acceptance, no later than six (06) weeks after award of Contract:
    - .1 draft Cx documentation and
    - .2 preliminary Cx schedule.
  - .2 Request changes to Submittals in writing to the Consultant and obtain written Acceptance or rejection at least eight (8) weeks before start of Cx.
  - .3 Where Cx procedures are not specified, submit proposed ones to the Consultant and obtain written Acceptance at least eight (8) weeks before start of Cx.
  - .4 Submit additional documentation relating to Cx process as required by the Consultant.
  - .5 If instruments installed in Contract will be used for Cx of TAB and PV, then submit TAB and PV instrument calibration certificates for review.
  - .6 Submit EMCS sensor calibration certificates.
- .2 Commissioning Schedule:

- .1 Create and submit detailed Cx schedule in accordance with section 01 32 16.16 – Construction Progress Schedule and section 01 91 13.13 – Commissioning Plan. The Contractor shall ensure the Cx schedule is incorporated into the Construction Schedule.
- .2 Allow in the schedule adequate time for Cx activities such that activities are completed prior to the required occupancy date, including commissioning activities prescribed in the Specifications including:
  - .1 Acceptance of Cx reports
  - .2 Verification of reported results
  - .3 Repairs, retesting, re-commissioning, and re-verification
  - .4 Training
- .3 Start-Up Documentation:
  - .1 Assemble start-up documentation and submit to the Consultant for review and Acceptance before beginning commissioning.
  - .2 Start-up documentation to include:
    - .1 Factory and on-site test certificates for specified equipment.
    - .2 Pre-start-up inspection reports.
    - .3 Signed installation/start-up checklists.
    - .4 Start-up reports.
    - .5 Step-by-step description of complete start-up procedures so the Consultant or Owner can repeat start-up at any time.
- .4 Submit for review and Acceptance:
  - .1 Complete list of proposed instruments and equipment to perform commissioning.
  - .2 List data including, serial number, current calibration certificate, calibration date, calibration expiry date and calibration accuracy.
- .5 Commissioning Documentation:
  - .1 Submit completed Cx documentation to Consultant for review and Acceptance.

**1.08 MAINTENANCE MATERIALS SUBMITTALS**

- .1 Supply and document maintenance materials, spare parts, and special tools as specified in other Specification sections.

**1.09 SITE CONDITIONS**

- .1 Where Cx of weather-dependent, occupancy-dependent, or seasonally-dependent equipment or

systems cannot be conducted under near-rated or near-design conditions, extrapolate part-load results to design conditions, if acceptable to the Consultant, with manufacturer's assistance in accordance with equipment manufacturer's instructions, data, and approved formulae.

## 2 PRODUCTS

### 2.01 NOT USED

- .1 Not used.

## 3 EXECUTION

### 3.01 GENERAL

- .1 Cx is a planned program of tests, procedures and checks carried out systematically on systems and integrated systems of the finished Project. Perform Cx after systems and integrated systems are completely installed, functional and Contractor's Performance Verification responsibilities have been completed and Accepted. Complete Cx in the most effective and timely manner available.
  - .1 Objectives: Verify that installed equipment, systems and integrated systems operate in accordance with Contract Documents and design criteria and intent.
- .2 Contractor shall be responsible for the entire Cx process, operating equipment and systems, troubleshooting, and making adjustments as required.
  - .1 Operate systems at full capacity under various modes to determine if they function correctly and consistently at peak efficiency. Systems should interact with each other as intended in accordance with Contract Documents and design criteria.
  - .2 Make adjustments as needed, during these checks, to enhance performance and meet environmental or user requirements.

### COMMISSIONING OVERVIEW

- .1 Refer to Section 01 91 13.13 - Commissioning Plan for additional Cx responsibilities.
- .2 Cx activities supplement the site quality control and testing procedures described in relevant technical Specification sections.
- .3 Conduct Cx in coordination with other activities carried out during the Project delivery stages.
- .4 Cx shall identify issues early on in the construction stages, which are addressed during Construction and Cx stages. This step ensures the built facility meets functional and operational requirements while operating as intended under weather, environmental and occupancy conditions. Cx activities include the transfer of critical knowledge to the Owner's facility operations personnel.
- .5 The Owner will verify *Ready-For-Takeover* has been achieved in accordance with the requirements of GC 12.1.1 and after:

- .1 Completed Cx documentation has been received, reviewed for suitability, and reviewed and Accepted by the Consultant.
- .2 Equipment, components and systems have been commissioned, and
- .3 O&M training has been completed.

### 3.02 PRE-COMMISSIONING REVIEW

- .1 Before Construction:
  - .1 Review Contract Documents and confirm in writing to the Consultant the following:
    - .1 Adequacy of provisions for Cx.
    - .2 Aspects of design and installation pertinent to success of Cx.
- .2 During Construction:
  - .1 Coordinate provision, location, and installation of provisions for Cx.
- .3 Before Beginning Cx:
  - .1 Verify Cx Plan, documentation and schedules are up-to-date.
  - .2 Verify installation of related components, equipment, systems, and sub-systems are complete.
  - .3 Review Cx requirements and procedures.
  - .4 Verify documentation used for the Cx process is shelf-ready (bound, organized, indexed, etc.).
  - .5 Review design criteria and intent, and special features to ensure full understanding.
  - .6 Submit complete start-up documentation to Consultant for Acceptance.
  - .7 Verify systems have been cleaned thoroughly.
  - .8 Complete TAB procedures on systems and submit TAB reports to Consultant for review and Acceptance.
  - .9 Verify "As-Built" system schematics are available.
- .4 Inform Consultant in writing of defects and deficiencies in installed Work together with plan for rectification.

### 3.03 STARTING AND TESTING

- .1 Contractor to bear all costs associated with Cx activities, including, but not limited to, costs of the following:
  - .1 inspections, including disassembly and re-assembly after approval, and for starting, testing, adjusting, and;

- .2 temporary testing equipment.
- .3 required personnel and test equipment.

### 3.04 PERFORMANCE VERIFICATION TOLERANCES

- .1 Application Tolerances:
  - .1 A specified range of acceptable deviations of measured values from specified values or specified design criteria except for special areas that shall be within +/- 10% of specified values.
- .2 Instrument Accuracy Tolerances:
  - .1 To be of higher order of magnitude than equipment or system being tested.
- .3 Measurement Tolerances During Verification:
  - .1 Unless otherwise specified, actual values shall be within +/- 2% of recorded values.

### 3.05 MANUFACTURER SERVICES

- .1 During factory testing, manufacturer, through the Contractor, to:
  - .1 Coordinate time and location of testing.
  - .2 Arrange for Consultant to observe testing.
  - .3 Submit testing documentation for review and Acceptance by Consultant.
  - .4 Obtain written Acceptance of test results and documentation from the Consultant before delivery to site.
- .2 Obtain manufacturer's installation, start-up and operations instructions before start-up of components, equipment and systems, and review with Consultant.
  - .1 Compare completed installation with manufacturer's published data, record discrepancies, and review with manufacturer.
  - .2 Modify procedures that may be detrimental to equipment performance and review with manufacturer before start-up.
- .3 Integrity of warranties:
  - .1 Use manufacturer's trained start-up personnel where specified in other Specification sections or where required to maintain integrity of warranty.
  - .2 Verify with manufacturer that testing as specified will not void warranties.
- .4 Qualifications of manufacturer's personnel:
  - .1 Experienced in design, installation and operation of equipment and systems.

- .2 Ability to interpret test results accurately.
- .3 Report results in clear, concise, logical manner.

### **3.06 COMMISSIONING PROCEDURES**

- .1 Verify that equipment and systems are complete, clean, and operating in a normal and safe manner before conducting start-up, testing and Cx.
- .2 Conduct start-up and testing in the following distinct phases:
  - .1 Included in delivery and installation:
    - .1 Verification of conformity to Specification, reviewed and Accepted Shop Drawings and completion of PI report forms.
    - .2 Visual inspection of quality of installation.
  - .2 Start-up: Follow accepted start-up procedures.
  - .3 Operational testing: Document equipment performance.
  - .4 System PV: Include repetition of tests after correcting deficiencies.
  - .5 Post-Substantial Performance Verification: To include fine-tuning.
- .3 Correct deficiencies and obtain Acceptance from the Consultant after distinct phases have been completed and before beginning the next phase.
- .4 Document required tests on approved PV forms.
- .5 Failure to follow accepted start-up procedures may result in re-evaluation of equipment by an independent testing agency selected by the Owner. If evaluation report indicates that equipment start-up procedure was deficient and resulted in equipment damage, perform the following:
  - .1 Minor equipment/systems: Perform corrective measures acceptable to the Consultant .
  - .2 Major equipment/systems: If evaluation report indicates that equipment damage is minor, perform corrective measures acceptable to the Consultant.
  - .3 If evaluation report indicates that major equipment damage has occurred, the Consultant will reject equipment.
    - .1 Remove rejected equipment from site and replace with new equipment.
    - .2 Perform specified start-up procedures on new equipment/systems.

### **3.07 OPERATION AND MAINTENANCE OF EQUIPMENT AND SYSTEMS**

- .1 After start-up, operate and maintain equipment and systems as directed or recommended by equipment/system manufacturer.
- .2 With manufacturer's assistance, develop written maintenance program and submit to Consultant

for review and Acceptance before implementation.

- .3 Operate and maintain systems for length of time required for commissioning to be completed.
- .4 After completion of commissioning, operate and maintain systems until issuance of certificate of Substantial Completion.

### **3.08 TEST RESULTS**

- .1 If start-up, testing, or PV produce unacceptable results, repair, replace or repeat specified starting or PV procedures until acceptable results are achieved.
- .2 Provide labor and materials and assume costs for re-commissioning.

### **3.09 START OF COMMISSIONING**

- .1 Notify Consultant at least ten (10) Working Days before start of Commissioning
- .2 Start Cx after elements affecting start-up and performance verification of systems have been completed.

### **3.10 TEMPORARY INSTRUMENTS AND EQUIPMENT**

- .1 Provide all required instruments and equipment required to complete commissioning.

### **3.11 COMMISSIONING PERFORMANCE VERIFICATION**

- .1 Carry out Cx:
  - .1 under actual and accepted simulated operating conditions, over entire operating range, and in all modes, and
  - .2 on independent systems and interacting systems.
- .2 Cx procedures to be repeatable and reported results are to be verifiable.
- .3 Follow equipment manufacturer's operating instructions.
- .4 Where applicable, make EMCS trending information available as supporting documentation for performance verification.

### **3.12 EXTENT OF VERIFICATION**

- .1 Laboratory areas:
  - .1 Provide labour and instrumentation to verify up to 100% of reported results.
- .2 Elsewhere:
  - .1 Provide labour and instrumentation to verify up to 30% of reported results, unless otherwise specified in other Specification sections.

- .3 Number and location to be at discretion of the Consultant.
- .4 Conduct tests repeated during verification under same conditions as original tests, using same test equipment, and instrumentation.
- .5 Review and repeat commissioning of systems if inconsistencies found in more than 20% of reported results.
- .6 Perform additional commissioning until results are Acceptable to the Consultant.

### **3.13 INSTALLED INSTRUMENTATION**

- .1 Use instruments installed under Contract for TAB and PV if:
  - .1 Accuracy complies with this Specification section.
  - .2 Calibration certificates have been submitted to Consultant.
- .2 Calibrated EMCS sensors may be used to obtain performance data if sensor calibration has been completed and accepted.

### **3.14 DEFICIENCIES DISCOVERED DURING COMMISSIONING**

- .1 Correct defects and deficiencies found during the Cx process. Re-verify equipment and components within the defective or deficient system to verify proper performance, including related systems if requested by the Consultant.
- .2 Costs associated with re-commissioning defective and deficient work is the responsibility of Contractor.

### **3.15 MISCELLANEOUS CHECKS AND ADJUSTING**

- .1 Make adjustments and changes which become apparent as Cx proceeds.
- .2 Perform static and operational checks as applicable and as required.

### **3.16 DEFICIENCIES AND DEFECTS**

- .1 Correct deficiencies and defects found during start-up and Cx to satisfaction of Owner and the Consultant.
- .2 Report concerns, deficiencies, and defects affecting Cx to Owner and the Consultant in writing. Stop Cx until problems are rectified. Proceed only with written Acceptance from the Consultant.

### **3.17 CLOSEOUT ACTIVITIES**

- .1 Completion of Commissioning:
  - .1 Upon completion of Cx, leave systems in normal operating mode, unless otherwise agreed with the Consultant.

- .2 Except for warranty and seasonal verification activities specified in Cx Specifications, complete Cx before issuance of Substantial Completion Certificate of Completion.
- .3 Cx to be considered complete when contract Cx deliverables have been submitted and Accepted by the Consultant.
- .2 Activities Upon Completion of Commissioning:
  - .1 When changes are made to baseline components or system settings established during Cx process, provide updated Cx form for affected item.
- .3 Training:
  - .1 In accordance with Section 01 79 00- Demonstration and Training.

**END OF SECTION**

## 1 GENERAL

### 1.01 SUMMARY

- .1 Section Includes:
  - .1 Description of overall structure of Plan and roles and responsibilities of commissioning team.

### 1.02 REFERENCE STANDARDS

- .1 Canadian Construction Documents Committee (CCDC)
- .2 CCDC 2-2020, Stipulated Price Contract.

### 1.03 RELATED REQUIREMENTS

- .1 Section 01 45 00 - Quality Control.
- .2 Section 01 77 00 - Closeout Procedures.
- .3 Section 01 78 00 - Closeout Submittals.
- .4 Section 01 79 00 - Demonstration and Training.

### 1.04 GENERAL

- .1 Provide fully functional facilities and or systems:
  - .1 Systems, equipment and components meet user's functional requirements before date of Acceptance, and operate consistently at peak efficiencies and within specified energy budgets under normal loads.
  - .2 Facility user and O&M personnel have been fully trained in aspects of installed systems.
  - .3 Optimized life cycle costs.
  - .4 Complete documentation relating to installed equipment and systems.
- .2 Term "Cx" in this section means "Commissioning".
- .3 Use this Cx Plan as master planning document for Cx:
  - .1 Outlines organization, scheduling, allocation of resources, documentation, pertaining to implementation of Cx.
  - .2 Communicates responsibilities of team members involved in Cx Scheduling, documentation requirements, and verification procedures.
  - .3 Sets out deliverables relating to O&M, process and administration of Cx.
  - .4 Describes process of verification of how built works meet Owner requirements.
  - .5 Produces a complete functional system prior to issuance of Certificate of Occupancy.
  - .6 Management tool that sets out scope, standards, roles and responsibilities,

expectations, deliverables, and provides:

- .1 Overview of Cx.
  - .2 General description of elements that make up Cx Plan.
  - .3 Process and methodology for successful Cx.
- .4 Acronyms:
- .1 Cx - Commissioning.
  - .2 O&M - Operations and Maintenance.
  - .3 EMCS - Energy Monitoring and Control Systems.
  - .4 WHMIS Safety Data Sheets (SDS).
  - .5 PI - Product Information.
  - .6 PV - Performance Verification.
  - .7 TAB - Testing, Adjusting and Balancing.
  - .8 WHMIS - Workplace Hazardous Materials Information System.
- .5 Commissioning terms used in this Section:
- .1 Bumping: short term start-up to prove ability to start and prove correct rotation.
  - .2 Deferred Cx - Cx activities delayed for reasons beyond Contractor's control due to lack of occupancy, weather conditions, need for heating/cooling loads.

#### 1.05 DEVELOPMENT OF CX PLAN

- .1 Submit for Acceptance a draft Cx Plan. Cx Plan shall be 100% completed within eight (8) weeks of award of Contract. Cx Plan shall take into account:
  - .1 Shop Drawings and Product data.
  - .2 Approved changes to Contract Documents.
  - .3 Contractor's Construction Schedule.
  - .4 Cx schedule.
  - .5 Contractor's, Subcontractor's, suppliers' requirements.
  - .6 Project construction team's and Cx team's requirements.
- .2 Submit completed Cx Plan to the Consultant for Acceptance.

#### 1.06 REFINEMENT OF CX PLAN

- .1 During construction phase, revise, refine and finalize Cx Plan to include:
  - .1 Changes resulting from Owner program modifications.
  - .2 Accepted design and construction changes.
- .2 Revise, refine and update every four (4) weeks during construction phase. At each revision, indicate revision number and date.
- .3 Submit each revised Cx Plan to Consultant for review and obtain Acceptance.
- .4 Include testing parameters at full range of operating conditions and check responses of equipment and systems.
- .5 Final Cx Plan shall be Accepted six (6) weeks prior to start of Commissioning.

**1.07 COMPOSITION, ROLES AND RESPONSIBILITIES OF CX TEAM**

- .1 Contractor to maintain overall responsibility for the Project and is the sole point of contact between members of commissioning team.
- .2 Contractor will select Cx Team consisting of following members:
  - .1 Quality assurance team will ensure Cx activities are carried out to ensure delivery of a fully operational Project including:
    - .1 Review of Cx documentation from operational perspective.
    - .2 Review for performance, reliability, durability of operation, accessibility, maintainability, operational efficiency under conditions of operation.
    - .3 Protection of health, safety and comfort of occupants and O&M personnel.
    - .4 Monitoring of Cx activities, training, development of Cx documentation.
    - .5 Work closely with members of Cx Team.
  - .2 Construction Team: Contractor, subcontractors, suppliers and support disciplines, are responsible for construction/installation in accordance with Contract Documents, including:
    - .6 Testing.
    - .7 TAB.
    - .8 Performance of Cx activities.
    - .9 Delivery of training and Cx documentation.
    - .10 Assigning one person as point of contact with Consultant and Cx Manager for administrative and coordination purposes.
  - .3 Contractor's Cx Agent implements specified Cx activities including:
    - .1 Demonstrations.
    - .2 Training.
    - .3 Testing.
    - .4 Preparation, submission of test reports.
  - .4 The Consultant is responsible for:
    - .1 Verifying implementation of final Cx Plan
    - .2 Monitoring of day to day Cx activities
    - .3 witnessing any or all Cx activities
  - .5 Owner: represents lead role in Operation Phase and onwards and is responsible for:
    - .1 Receiving facility.
    - .2 Day-To-Day operation and maintenance of facility.

**1.08 CX PARTICIPANTS**

- .1 Employ the following Cx participants, as required, to verify performance of equipment and systems:

- .1 Installation Contractor/Subcontractor:
  - .2 Equipment and systems except as noted.
- .2 Equipment manufacturer: equipment specified to be installed and started by manufacturer:
  - .1 To include performance verification.
- .3 Specialist subcontractor: equipment and systems supplied and installed by specialist subcontractor.
- .4 Specialist Cx agency:
  - .1 Possessing specialist qualifications and installations providing environments essential to client's program but are outside scope or expertise of Cx specialists on this project.
- .5 Owner:
  - .1 Coordinates Owner's staff participation in Cx activities as required.
- .6 Ensure that Cx participant:
  - .1 Could complete work within scheduled time frame.
- .7 Available for emergency and troubleshooting service during first year of occupancy by user for adjustments and modifications outside responsibility of O&M personnel as per warranties terms. Provide names of participants to the Consultant and details of instruments and procedures to be followed for Cx [8] weeks prior to starting date of Cx for review and Acceptance.

**1.09 EXTENT OF CX**

- .1 Commission all new systems/equipment installed as part of the Work, including but not limited to, the systems contained in section 01 11 00 – Summary of Work and detailed in the technical Specifications.

**1.10 DELIVERABLES RELATING TO THE CX PROCESS**

- .1 General:
  - .1 Start-up, testing and Cx requirements, conditions for acceptance and specifications form part of relevant technical sections of these specifications.
- .2 Definitions:
  - .1 Cx as used in this section includes:
    - .1 Cx of components, equipment, systems, subsystems, and integrated systems.
    - .2 Factory inspections and performance verification tests.
- .3 Deliverables: submit in accordance with 01 33 00 - Submittal Procedures:
  - .1 Cx Specifications.
  - .2 Startup, pre-Cx activities and documentation for systems, and equipment.
  - .3 Completed installation checklists (ICL).
  - .4 Completed product information (PI) report forms.
  - .5 Completed performance verification (PV) report forms.

- .6 Results of Performance Verification Tests and Inspections.
- .7 Description of Cx activities and documentation.
- .8 Description of Cx of integrated systems and documentation.
- .9 Tests Reports.
- .10 Training Plans.
- .11 Cx Reports.
- .12 Prescribed activities during warranty period.
- .4 Consultant to witness tests and reports of results provided to the Owner.
- .5 Consultant may participate.

**1.11 PRE-CX ACTIVITIES AND RELATED DOCUMENTATION**

- .1 Items listed in the Cx Plan shall include the following:
  - .1 Pre-Start-Up inspections.
  - .2 The Consultant may monitor some or all of these pre-start-up inspections.
  - .3 Include completed documentation with Cx report.
  - .4 Conduct pre-start-up tests: conduct pressure, static, flushing, cleaning, and “bumping” during construction as specified in technical sections. To be witnessed and verified by Consultant and does not form part of Cx specifications.
  - .5 Include completed documentation in Cx report.
- .2 Complete following Pre-Cx activities as relevant to the Work with reference to technical Specifications:
  - .1 Pre-Cx activities - ARCHITECTURAL AND STRUCTURAL:
  - .2 Pre-Cx activities - MECHANICAL:
    - .1 HVAC equipment and systems:
      - .1 “Bump” each item of equipment in its “stand-alone” mode.
      - .2 At this time, complete pre-start-up checks and complete relevant documentation.
      - .3 After equipment has been started, test related systems in conjunction with control systems on a system-by-system basis.
      - .4 Perform TAB on systems. TAB reports to be Accepted by Consultant.
  - .3 Pre-Cx activities EMCS:
    - .1 EMCS trending to be available as supporting documentation for performance verification.
    - .2 Perform point-by-point testing in parallel with start-up.
    - .3 Carry out point-by-point verification.
    - .4 Demonstrate performance of systems, to be witnessed by Consultant prior to start of Final Acceptance Test period.
    - .5 Perform final Cx and operational tests during demonstration period and test period.
    - .6 Only additional testing after foregoing have been successfully completed to be “Off-Season Tests”.
- .4 Pre-Cx activities - LIFE SAFETY SYSTEMS
  - .1 Include all equipment and systems.
  - .2 Reports of test results to be witnessed by Consultant before verification.

- .5 Pre-Cx activities - ELECTRICAL:
  - .1 High voltage distribution systems over 750 V.
  - .2 Low voltage distribution systems under 750 V.
  - .3 Requires independent testing agency to perform pre- energization and post-energization tests.
  - .4 Emergency power generation systems
  - .5 Transfer switches: test by simulating loss of power. Verify availability of power at equipment requiring same.
  - .6 Uninterruptible power systems: test under full and partial load conditions.
  - .7 Lighting systems:
  - .8 Emergency lighting systems:
  - .9 Tests to include verification of lighting levels and coverage, initially by disrupting normal power.
  - .10 Low voltage systems: these include:
  - .11 Clock, communications, low voltage lighting control systems and data communications systems.
  - .12 Security, surveillance and intrusion alarm systems: to include verification by Owner and Consultant

**1.12 START-UP**

- .1 Start-up components, equipment and systems.
- .2 Consultant to monitor some or all of these start-up activities.
  - .1 Rectify start-up deficiencies to satisfaction of the Consultant.
- .3 Performance Verification (PV):
  - .1 Contractor’s Cx Agent to perform.
  - .2 Repeat when necessary until results are acceptable to Consultant.
  - .3 Use modified generic procedures to suit project requirements.
  - .4 Consultant to review and Accept reported results using approved PI and PV forms.
  - .5 Owner and Consultant reserve right to verify up to 30% of reported results at random.
  - .6 Failure of randomly selected item shall result in rejection of PV report or report of system startup and testing.

**1.13 CX ACTIVITIES AND RELATED DOCUMENTATION**

- .1 Perform Cx using procedures developed by Contractor and Accepted by Consultant.
- .2 Consultant to monitor Cx activities.
- .3 Upon satisfactory completion, Contractor performing tests to prepare Cx Report using Accepted PV forms.
- .4 Consultant may witness reported results of Cx activities and forward to Owner.
- .5 Owner and Consultant reserve right to verify a percentage of reported results at no cost to Contractor.

**1.14 CX OF INTEGRATED SYSTEMS AND RELATED DOCUMENTATION**

- .1 Cx to be performed by specified Cx specialist, using procedures Accepted by the Consultant.
- .2 Tests to be witnessed by Consultant and documented on Accepted report forms.
- .3 Upon satisfactory completion, Cx specialist to prepare Cx Report, to be submitted to Consultant for review and Acceptance.
- .4 Owner and Consultant reserve right to verify percentage of reported results.

### 1.15 CX SCHEDULES

- .1 Prepare detailed Cx Schedule and submit to Consultant for review and Acceptance. Integrate Cx schedule into Project Construction Schedule such that there is a complete Critical Path for the entire Work. Include:
  - .1 Milestones, testing, documentation, training and Cx activities of components, equipment, subsystems, systems and integrated systems, including:
    - .1 Design criteria, design intents.
    - .2 Pre-TAB review
    - .3 Cx agents' credentials
    - .4 Cx procedures
    - .5 Cx Report format
    - .6 Discussion of heating/cooling loads for Cx
    - .7 Submission of list of instrumentation with relevant certificates
    - .8 Notification of intention to start TAB
    - .9 TAB: after successful start-up, correction of deficiencies and verification of normal and safe operation.
    - .10 Notification of intention to start Cx: 14 days before start of Cx.
    - .11 Notification of intention to start Cx of integrated systems: after Cx of related systems is completed 14 days before start of integrated system Cx.
    - .12 Identification of deferred Cx.
    - .13 Implementation of training plans.
    - .14 Cx reports: immediately upon successful completion of Cx.
  - .2 Detailed training schedule to demonstrate no conflicts with testing, completion of Project and hand-over to Owner.
  - .3 Cx schedule for verification of performance in all seasons and wear conditions.
- .2 Consultant, Contractor and Contractor's Cx Agent will monitor progress of Cx against this schedule.

### 1.16 CX REPORTS

- .1 Submit reports of tests, witnessed and verified by Consultant.
- .2 Include completed and certified PV reports in properly formatted Cx Reports.
- .3 Before reports are Accepted, reported results to be subject to verification by Consultant or Owner.

### 1.17 ACTIVITIES DURING WARRANTY PERIOD

- .1 Cx activities must be completed before issuance of Substantial Performance of the Work Certificate. It is anticipated that certain Cx activities may be necessary during Warranty Period,

including:

- .1 Fine tuning of HVAC systems.
- .2 Adjustment of ventilation rates to promote good indoor air quality and reduce deleterious effects of VOCs generated by off-gassing from construction materials and furnishings.

#### **1.18 TRAINING PLANS**

- .1 Refer to Section 01 79 00 - Demonstration and Training.

#### **1.19 FINAL SETTINGS**

- .1 Upon completion of Cx to satisfaction of the Consultant, lock control devices in their final positions, indelibly mark settings marked and include in Cx Reports.

### **2 PRODUCTS**

#### **2.01 NOT USED**

- .1 Not Used.

### **3 EXECUTION**

#### **3.01 NOT USED**

- .1 Not Used.

**END OF SECTION**

## **1 GENERAL**

### **1.01 SUMMARY**

.1 Section Includes:

.1 Commissioning forms to be completed for equipment, system and integrated system.

.2 Related Requirements

.1 Section 019113 -General Commissioning Requirements.

### **1.02 INSTALLATION/START-UP CHECK LISTS**

.1 Include the following data:

.1 Product manufacturer's installation instructions and recommended checks.

.2 Special procedures as specified in relevant technical sections.

.3 Items considered good installation and engineering industry practices deemed appropriate for proper and efficient operation.

.2 Equipment manufacturer's installation/start-up check lists are acceptable for use. As deemed necessary by Consultant supplemental additional data lists will be required for specific Project conditions.

.3 Use check lists for equipment installation. Document check list verifying checks have been made, indicate deficiencies and corrective action taken.

.4 Installer to sign check lists upon completion, certifying stated checks and inspections have been performed. Return completed check lists to Consultant. Check lists will be required during Commissioning and will be included in Operations and Maintenance Manual (O&M) at completion of Project.

.5 Use of check lists will not be considered part of commissioning process but will be stringently used for equipment pre-start and start-up procedures.

### **1.03 PRODUCT INFORMATION (PI) REPORT FORMS**

.1 Product Information (PI) forms compiles gathered data on items of equipment produced by equipment manufacturer, includes nameplate information, parts list, operating instructions, maintenance guidelines and pertinent technical data and recommended checks that is necessary to prepare for start-up and functional testing and used during operation and maintenance of equipment. This documentation is included in the operations and maintenance manual at completion of Work.

.2 Prior to Performance Verification (PV) of systems complete items on PI forms related to systems and obtain Consultant's Acceptance.

### **1.04 PERFORMANCE VERIFICATION (PV) FORMS**

.1 PV forms to be used for checks, running dynamic tests and adjustments carried out on equipment

and systems to ensure correct operation, efficiently and function independently and interactively with other systems as intended with Project requirements.

- .2 PV report forms include those developed by Contractor records measured data and readings taken during functional testing and Performance Verification procedures.
- .3 Prior to PV of integrated system, complete PV forms of related systems and obtain Consultant's Acceptance.

### 1.05 CHANGES AND DEVELOPMENT OF NEW REPORT FORMS

- .1 Develop appropriate verification forms and submit to the Consultant for Acceptance prior to use.
  - .1 Additional commissioning forms to be in same format.

### 1.06 COMMISSIONING FORMS

- .1 Use Commissioning forms to verify installation and record performance when starting equipment and systems.
- .2 Strategy for Use:
  - .1 Contractor's Commissioning Agent to prepare and use Project-specific Commissioning forms, Accepted by Consultant.
  - .2 Contractor will provide required Shop Drawings information and verify correct installation and operation of items indicated on these forms.
  - .3 Confirm operation as per design criteria and intent.
  - .4 Identify variances between design and operation and reasons for variances.
  - .5 Verify operation in specified normal and emergency modes and under specified load conditions.
  - .6 Record analytical and substantiating data.
  - .7 Verify reported results.
  - .8 Form to bear signatures of recording technician and reviewed and signed off by Consultant.
  - .9 Submit immediately after tests are performed.
  - .10 Reported results in true measured SI unit values.
  - .11 Provide Consultant with originals of completed forms.
  - .12 Maintain copy on site during start-up, testing and commissioning period.
  - .13 Forms to be both hard copy and electronic format with typed written results in Operation and Maintenance Manual.

### 1.07 LANGUAGE

- .1 English

**2 PRODUCTS**

**2.01 NOT USED**

.1 Not Used.

**3 EXECUTION**

**3.01 NOT USED**

.1 Not Used.

**END OF SECTION**

## **APPENDIX G (A) - TECHNICAL SPECIFICATIONS (Continued)**

The Technical Specifications for the **Cochrane Station Parking Lot – General Specifications** are attached to and form part of this Appendix G, as outlined below.

### **A. Ontario Municipal and Provisional Standard Specifications Common (OPSSs)**

Proponents shall refer to the below applicable specifications by visiting this link:

[Ontario Provincial Standards](#)

**Ontario Municipal and Provincial Standard Specifications Common (OPSSs)**

OPSS	Muni/Prov	Issue Date	Description
102	Muni	Nov. 2018	Weighing of Materials
127	Prov	Apr. 2022	Schedule of Rental Rates for Construction Equipment, including Model and Specification Reference
180	Muni	Apr. 2025	The Management of Excess Materials
206	Muni	Apr. 2019	Grading
308			
310	Muni	Nov. 2017	Hot Mix Asphalt
314	Muni	Nov. 2023	Untreated Granular Subbase, Base, Surface, Shoulder, and Stockpiling
351	Muni	Nov. 2021	Concrete Sidewalk
353	Muni	Nov. 2021	Concrete Curb and Gutter Systems
355	Muni	Nov. 2020	The Installation of Interlocking Concrete Pavers
405	Muni	Nov. 2017	Pipe Subdrains
407	Muni	Nov. 2021	New Maintenance Hole, Catch Basin, Ditch Inlet, and Valve Chamber Installation
410	Muni	Nov. 2018	Pipe Sewer Installation in Open Cut
501	Muni	Nov. 2017	Compacting
510	Muni	Nov. 2018	Removal
511	Muni	Nov. 2019	Rip-Rap, Rock Protection and Granular Sheeting
703	Muni	Apr. 2019	Permanent Small Sign and Support Systems
706	Muni	Apr. 2018	Temporary Traffic Control Devices
710	Muni	Nov. 2021	Pavement Marking
802	Muni	Nov. 2019	Topsoil
804	Muni	Nov. 2014	Seed and Cover
1010	Muni	Apr. 2025	Aggregates – Base, Subbase, Select Subgrade, Granular Surface, Shouldering, Bedding and Backfill Material

*Current OPSS – All material specification referenced in the above.*

**Ontario Provincial Standard Drawings (OPSDs)**

<b>OPSD</b>	<b>Title</b>	<b>Dwg. Rev.</b>	<b>Issue Date</b>
100.010	Abbreviations, General A - C	4	Nov '10
100.011	Abbreviations, General D - J	1	Nov '06
100.012	Abbreviations, General L - R	2	Nov '09
100.013	Abbreviations, General S - W	4	Nov '09
100.050	Abbreviations, Building Descriptions	1	Nov '06
100.060	Abbreviations, Geotechnical	1	Nov '06
101.010	Topography Plan Features, Monument Features	1	Nov '06
101.011	Topography Plan Features, Ground Features	1	Nov '06
101.012	Topography Plan Features, Road Features	1	Nov '06
101.013	Topography Plan Features, Barrier and Vegetation Features	1	Nov '06
101.014	Topography Plan Features, Utility Features	1	Nov '06
101.015	Topography Plan Features, Drainage Features	1	Nov '06
101.016	Topography Plan Features, Miscellaneous Features	1	Nov '06
101.017	Topography Plan Features, Right-of-Way Features	3	Nov '08
102.010	Removals, Legend	1	Nov '06
103.010	New Construction, Legend 1	1	Nov '06
103.011	New Construction, Legend 2	2	Apr '08
206.050	Subdrain Pipe Connection and Outlet, Rural	2	Nov '18
400.001	Hoisting Hook Rib for Cast Iron Frames for Catch Basins, Maintenance Holes, and Valve Chambers	2	Nov '18
400.010	Cast Iron, Square Frame with Square Overflow Type Dishes Grate for Catch Basins, Herring Bone Openings	3	Nov '18
405.010	Maintenance Hole Steps, Hollow	4	Nov '18
561.010	Interlocking Concrete Pavers on Granular Base	2	Nov '16
600.110	Concrete Barrier Curb	2	Nov '12
608.010	Method of Termination, for Concrete Curb with Gutter	2	Nov '12
701.010	Precast Concrete Maintenance Hole, 1200mm Diameter	5	Nov '14
701.021	Maintenance Hole Benching and Pipe Opening Alternatives	4	Nov '14
701.030	Precast Concrete Maintenance Hole Components, 1200mm Diameter Tapered Top and Flat Cap	4	Nov '14
701.031	Precast Concrete Maintenance Hole Components, 1200mm Diameter Riser and Monolithic Base	2	Nov '14
705.010	Precast Concrete Catch Basin, 600x600mm	4	Nov '19
708.020	Support for Pipe at Catch Basin or Maintenance Hole	4	Nov '16
802.010	Flexible Pipe Embedment and Backfill Earth Excavation	3	Nov '14

<b>OPSD</b>	<b>Title</b>	<b>Dwg. Rev.</b>	<b>Issue Date</b>
802.030	Rigid Pipe Bedding, Cover, and Backfill, Type 1 or 2 Soil - Earth Excavation	3	Nov '15
803.030	Frost Treatment - Pipe Culverts Frost Penetration Line Below Bedding Grade	3	Nov '15
987.101	Small Sign Support System Lap Splice Rib-Bak Breakaway System Components	1	Apr '19

## **B. Item Special Provisions**

Item Special Provisions prepared by **EXP Services Inc.** are included in this Appendix.

**ONTARIO NORTHLAND TRANSPORTATION  
COMMISSION**

**ONTC PARKING LOT COCHRANE  
STATION PARKING LOT**

**EXP PROJECT NO. NWL-25002304-00**

**ITEM SPECIAL PROVISIONS**

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**EARTH EXCAVATION, GRADING**

**OPSS.MUNI 180, April 2025, General Specification for Management of Excess Materials is amended by the following:**

**180.07 CONSTRUCTION**

**180.07.06 Conditions on Management by Stockpiling**

**Subsection 180.07.06 is amended by the addition of the following:**

Location(s) for the stockpiling of excess soils shall be within the project limits.

**SUPERPAVE 12.5 (40mm)**  
**SUPERPAVE 19.0 (50mm)**

**OPSS.MUNI 310, November 2017, Construction Specification for Hot Mix Asphalt is amended by the following:**

**310.05 MATERIALS**

**310.05.01 Hot Mix Asphalt**

Subsection 310.05.01 of OPSS.MUNI 310 is amended by deleting the first paragraph and replacing it with the following:

The materials used in the production of the HMA shall be according to OPSS 1150 for Marshall mixes.

Performance Graded Asphalt Cement (PGAC) Grade

Asphaltic concrete shall conform to OPSS 1101, except that clause 1151.05.01 Asphalt Cement of OPSS 1151 is amended by the addition of the following:

<u>Hot Mix Type</u>	<u>PGAC</u>
Superpave 12.5	52-34

The traffic category for the Marshall mix design is Category 'B'.

Reclaimed asphalt pavement shall not be used in Hot Mix Asphalt for this contract.

**310.07 CONSTRUCTION**

**310.07.01 Quality Control**

Subsection 310.07.01 of OPSS.MUNI 310, is amended by the addition of the following:

**Laboratory Testing**

### Laboratory Requirements

The laboratory carrying out the testing shall participate in the MTO's correlation programs for gyratory compactors which occur just prior to and during paving operations.

### Submission of Test Data

The Contractor shall provide test results from a laboratory meeting the requirements noted above. Test results, either individual or mean values, shall demonstrate conformance of the aggregates with the requirements of this special provision.

- i) All individual test results shall be submitted to the Engineer using MTO Form PH-CC-449, at the time of submission of the mix design. All test data forms must be legible. Faxed copies are acceptable provided that the original form is submitted to the Engineer within 7 days following receipt of the fax.

### **310.07.05                    Sampling**

#### **310.07.05.01                Asphalt Cement**

##### **310.07.05.01.01 General**

Subsection 310.07.05.01.01 of OPSS.MUNI 310, is amended by the addition of the following:

#### Amendments to OPSS.MUNI 1101, November 2016

Appendix 1101-B shall apply to this contract.

##### **310.07.05.01.02            Frequency and Location**

Subsection 310.07.05.01.02 of OPSS.MUNI 310 is amended by the addition of the following:

One sample of asphalt cement shall be taken and given to the contract administrator on site.

##### **310.07.05.01.04 Delivery**

Subsection 310.07.05.01.04 of OPSS.MUNI 310 is amended by the addition of the following:

The Contractor shall deliver all samples designated for QA and Referee testing to a laboratory designated by the Owner, within a 500 km radius of the contract limits, within 24 hours of sampling.

##### **310.07.05.02                Hot Mix Asphalt**

#### Sampling of Mix for Acceptance Testing

Random samples of the mix shall be obtained, packaged appropriately, labeled, and delivered by the Contractor as specified. The Contractor shall advise the Engineer or his representative when each sample will be taken. The samples shall not be split prior to delivery.

The Contractor shall obtain a set of three mix samples from each random location designated by the Contract Administrator. One of these samples shall be for the Contractor's QC testing and the other two will be designated for QA and Referee testing. Each of the three samples shall be taken from the same truckload and at the same transverse offset. The minimum mass of each sample shall be in accordance with Table 6 of OPSS 310.

**310.07.05.02.01            General**

Subsection 310.07.05.02.01 of OPSS.MUNI 310 is amended by the addition of the following:

One set of three samples (QA, QC and REF) shall be taken.

**310.07.05.02.04            Cores**

Subsection 310.07.05.02.04 of OPSS.MUNI 310 is amended by the addition of the following:

Pavement core samples shall be obtained adjacent to each HMA sample location by the Contractor. Each core shall have a nominal diameter of 200 mm and shall consist of the full layer being sampled and at least one underlying layer if one is present. Cores shall not be taken within 250 mm of a longitudinal or transverse joint, or the edge of pavement. Care shall be taken to ensure that cores are not damaged during coring operations, or in transit. If a core is damaged, a replacement core shall be extracted at a location adjacent to the original core.

The Contractor shall deliver all samples designated for QA and Referee testing to a laboratory designated by the Owner, within a 500 km radius of the contract limits, within 24 hours of sampling.

**310.07.05.02.05 Delivery**

The Contractor shall deliver all samples designated for QA and Referee testing to a laboratory designated by the Owner, within a 500 km radius of the contract limits, within 24 hours of sampling.

**310.07.11.03            Transverse Joints**

Subsection 310.07.11.03 of OPSS.MUNI 310, is amended by the addition of the following:

The length of the stepped joints shall be as shown on the contract drawings.

**310.08                    QUALITY ASSURANCE**

**310.08.01            General**

Subsection 310.08.01 of OPSS.MUNI 310, is amended by the addition of the following:

Use of Contractor's QC Results for Acceptance of Hot Mix

The Contractor's QC results will be used for assessing the acceptability of hot mix, unless either party requests referee testing.

Table 10 of OPSS.MUNI 310 is replaced with the following Table 10:

<b>TABLE 10            Pavement Compaction Requirements Based on Maximum Relative Density</b>			
<b>Mix</b>	<b>Acceptable %</b>	<b>Borderline %</b>	<b>Rejectable %</b>
HDBC, Superpave 19.0, 25.0 and 37.5	91.0 to 96.5	96.6 to 97.5	< 91.0 or > 97.5
DFC and Superpave 12.5 FC2	92.0 to 97.5	97.6 to 98.5	< 92.0 or > 98.5
All Other Mixes	92.0 to 96.5	96.6 to 97.5	< 92.0 or > 97.5

**310.08.06                    Compaction Requirements**

**310.08.06.01                General**

Subsection 310.08.06.01 of OPSS.MUNI 310, is amended by deleting the second paragraph in its entirety and replacing it with the following:

Core density testing (in accordance with subsection 310.08.06.03) shall be used to assess compaction.

**310.10                        BASIS OF PAYMENT**

**310.10.04                    Payment Adjustment for Changes in the Ministry of Transportation’s  
 Performance Graded Asphalt Cement Price Index.**

Subsection 310.10.04 of OPSS.MUNI 310, is amended by the addition of the following:

Appendix 310-B of OPSS.MUNI 310 shall apply.

The mass of asphalt cement for payment adjustment shall be determined by calculating the volume of hot mix placed based upon area and lift thickness as determined by coring multiples by the bulk relative density and % asphalt cement in accordance with the job mix formula.

**GRANULAR ‘A’  
GRANULAR ‘B’ TYPE I**

**OPSS.MUNI 1010, April 2025, Material Specification for Aggregates – Base, Subbase, Select Subgrade, Granular Surface, Shouldering, Bedding and Backfill Material, is amended by the following:**

## **1010.05 MATERIALS**

Subsection 1010.05.01 of OPSS.MUNI 1010, is amended by the addition of the following:

### **1010.05.01 General**

The use of air-cooled blast furnace slag, nickel slag or steel slag is prohibited.

## **1010.08 QUALITY ASSURANCE**

Subsection 1010.08.01 of OPSS.MUNI 1010, is amended by the addition of the following:

### **1010.08.01 General**

QA testing shall be carried out by the Owner for purposes of ensuring that materials used in the work conform to the physical and production requirements of this special provision. Where materials contain blended or reclaimed aggregates or both, QA samples for testing shall be performed on the final product.

### **1010.08.03 Sampling**

Subsection 1010.08.03 of OPSS.MUNI 1010, is amended by the addition of the following:

QA sampling and testing shall be based on lots established for each aggregate type: Granular A, O, B, M, and SSM. Where more than one aggregate source is used, separate lots shall also be established for each source. Where aggregates are produced with blended or reclaimed materials or both, QA testing shall be performed on the final product.

Notwithstanding the requirements for QA sampling as indicated in this specification, the Owner reserves the right to obtain a QA sample at any time without notice.

Either QA test results or referee test results, where applicable will be used for the acceptance of physical and production property requirements of this specification. QA testing for physical properties may be waived by the Engineer where the delivered quantity of Granular A, O, B, M, or SSM is less than 5,000 tonnes.

Aggregates may be rejected based on the visual identification of unacceptable materials.

QA samples shall be taken in accordance with LS-625 and shall be road samples or delivery samples obtained from the Work at a location determined by the Contract Administrator. Where required, the Contractor shall provide a front-end loader to obtain material for QA samples.

Where it is not possible to take road or delivery samples, samples of compacted material taken with the permission of the Owner will be used for QA purposes.

In the event that the Contractor is unavailable to take a sample, no further materials shall be placed in the Work until the required QA samples have been taken.

The Contractor shall provide new or clean sample bags or containers that are constructed to prevent the loss of any part of the material or contamination or damage to the contents during shipment. Metal or cardboard containers are unacceptable. QA samples shall be identified both inside and outside of the sample container.

Data to be included with QA samples shall conform to the requirements of MTO Form PH-D-10 (Sample Data Sheet).

All QA samples shall have a duplicate sample taken at the same time and location as the QA sample. One of the samples shall be randomly selected for testing by the QA laboratory and the remaining sample shall be retained by the QA laboratory for possible referee testing.

#### **1010.08.05 Acceptance**

Subsection 1010.08.05 of OPSS.MUNI 1010, is amended by the addition of the following:

The QA laboratory shall carry out testing for each physical property requirement given in Table 1, as applicable for each QA sample.

QA for production properties shall consist of sampling and testing of lots selected from material delivered to the Work. The Engineer shall identify each lot according to the following schedule:

- i. One lot consisting of the first 5,000 tonnes of material delivered to the Work;
- ii. 5,000 tonne lots selected from within the next 15,000 tonnes of delivered material; and
- iii. 10,000 tonne lots thereafter.

Each lot shall be divided into four equal sublots and one QA sample shall be obtained from each subplot. Sublots from different sources or processes shall not be combined within the same lot.

Where changes in source, production or delivery may result in an incomplete lot, the Engineer shall be given prior notification in order to adjust subplot size. If no notification is given, payment adjustments or rejection shall be based on the number of sublots available for that lot. All lots shall be deemed to be complete at the end of each calendar year.

In the event of an incomplete lot and for sources supplying quantities less than 5,000 tonnes, the lot size will apply to the total quantity of material available. Should the size of the lot exceed the indicated quantities for any reason, any adjusted payment or removal shall apply to the entire quantity of the lot.

Where it is necessary to designate the quantity of material in a lot, or part of a lot for the purposes of rejection, the Contract Administrator's estimate of this quantity shall be used.

##### **1010.08.05.01 Testing of Production Properties**

The QA laboratory shall conduct sieve analysis (LS-602) and determine test results for each sieve designated in Table 2. The QA laboratory shall also carry out testing for percent crushed particles (LS-607), particles with two or more crushed faces (LS-617), and amount of asphalt coated particles (LS-621) as applicable.

##### **1010.08.05.02 Acceptance of Production Properties**

Test results from each subplot within a lot shall be combined to determine the mean and the range of the Lot for each test. All lot means and ranges for LS-602 and LS-607 (as applicable) will be computed to one decimal place.

A lot will be deemed to meet the applicable requirements of this specification for LS-602 and LS-607 if the mean of the lot is within the limits specified in Table 2. Where the lot does not meet the requirements of this specification, the material is rejectable.

A lot will be deemed to meet the applicable requirements of this specification for LS-617 or LS-621 if the mean value of the lot is within the limits specified in Table 2. Where the lot does not

meet these requirements, the Contractor shall ensure all necessary changes required to rectify the deficiency are made. No further materials from the source will be accepted until new QC test results demonstrate that materials conform to the requirements of Table 2 for LS-617 or LS-621 have been provided to the Engineer.

The forms contained in Appendices 1010-D and 1010-E are to be used for the recording and reporting of aggregate test results.

Table 1 of OPSS.MUNI 1010, is deleted and replaced with the following Table 1.

**Table 1. Physical Property Requirements**

Laboratory Test	MTO Test Number	Granular O	Granular A	Granular B		Granular M	Select Subgrade Material
				Type I, Type II	Type III		
Freeze-Thaw Loss, % Maximum	LS-614	15	-	-	-	-	-
Determination of Permeability	LS-709	(Note 1)					
Micro-Deval Abrasion Coarse Aggregate loss, % maximum	LS-618	21	25	30 (Note 2)	30	25	30 (Note 2)
Micro-Deval Abrasion Fine Aggregate loss, % maximum	LS-619	25	30	35	35	30	-
Amount of Contamination	LS-630	(Note 3)					
Plastic Fines	LS-631	NP					

Note 1: For materials north of the French/Mattawa Rivers only, the coefficient of permeability,  $k$  shall be greater than  $1.0 \times 10^{-4}$  cm/s or alternatively, when past field experience has demonstrated satisfactory performance. Prior data demonstrating compliance with this requirement for  $k$  shall be acceptable provided that such testing has been done within 5 years of the material being used and field performance has continually been shown to be satisfactory.

Note 2: The coarse aggregate micro-Deval abrasion loss test requirement will be waived if the material has more than 80% passing the 4.75 mm sieve.

Note 3: Granular A, B Type I, B Type III, or M may contain up to 15 percent by mass crushed glass and/or ceramic material. Granular A, O, B Type I, B Type III, and M shall not contain more than 1.0 percent by mass of wood, clay brick and /or gypsum and /or gypsum wall board or plaster. Granular B Type II and SSM shall not contain more than 0.1 percent by mass of wood.

Table 2 of OPSS.MUNI 1010, is deleted and replace with the following Table 2.

**Table 2. Production Requirements**

Lab Test	MTO Test Number	Granular					SSM	
		O	A	B (Note 1)				M
Sieve Analysis, % passing	LS-602 (sieve)			Type I (Note 2)	Type II	Type III (Note 2)		
	150 mm	-	-	100	-	100	-	100
	106 mm	-	-	-	100	-	-	-
	37.5 mm	100	-	-	-	-	-	-
	26.5 mm	95.0-100	100	50.0-100	50.0-100	50.0-100	-	50.0-100
	19.0 mm	80.0-95.0	85.0-100 (87.0-100) Note 3	-	-		100	-
	13.2 mm	60.0-80.0	65.0-90.0 (75.0-95.0) Note 3	-	-		75.0-95.0	-
	9.5 mm	50.0-70.0	50.0-73.0 (60.0-83.0) Note 3	-	-	32.0-100	55.0-80.0	-
	4.75 mm	20.0-45.0	35.0-55.0 (40.0-60.0) Note 3	20.0-100	20.0-55.0	20.0-90.0	35.0-55.0	20.0-100
	1.18 mm	0-15.0	15.0-40.0	10.0-100	10.0-40.0	10.0-60.0	15.0-40.0	10.0-100
	300 µm	-	5.0-22.0	2.0-65.0	5.0-22.0	2.0-35.0	5.0-22.0	5.0-95.0
150 µm	-	-		-		-	2.0-65.0	
	75 µm	0-5.0	2.0-8.0 (2.0-10.0) Note 4	0-8.0 (0-10.0) Note 4	0-10.0	0-8.0 (0-10.0) Note 4	2.0-8.0 (2.0-10.0) Note 4	0-25.0
Percent Crushed, minimum	LS-607	100	60	-	100	-	60	-
2 or more crushed faces, minimum, %	LS-617	85	-	-	-	-	-	-
% Asphalt Coated Particles, Coarse Agg, max.	LS-621	0	30	30	0	30	30	0

Note 1: Where Granular B is used for granular backfill for pipe subdrains, 100 percent of the material shall pass the 37.5 mm sieve.

Note 2: Where RAP is blended with Granular B Type I or Type III, 100 percent of the RAP shall pass the 75 mm sieve. Conditions in Note 1 supersede this requirement.

Note 3: Where the aggregate is obtained from an iron blast furnace slag source.

Note 4: Where the aggregate is obtained from a quarry or blast furnace slag or nickel slag source.

**OPSS.MUNI 314, November 2023, Construction Specification for Untreated Granular Subbase, Base, Surface, Shoulder, and Stockpiling, is amended by the following:**

### **314.03 DEFINITIONS**

Subsection 314.03 of OPSS.MUNI 314, is amended by the addition of the following:

**Tolerance – Minus:** a construction working tolerance only which:

- a) Means narrower than the contract standard pertaining to horizontal dimensions as measured from centerline; and
- b) Means lower in elevation than the contract standard pertaining to vertical dimensions.

**Tolerance – Plus:** a construction working tolerance only which:

- a) Means wider than the contract standard pertaining to horizontal dimensions as measured from centerline; and
- b) Means higher in elevation than the contract standard pertaining to vertical dimensions.

### **314.07 CONSTRUCTION**

#### **314.07.07 Stockpiling of Granular Material**

Subsection 314.07.07 of OPSS.MUNI 314, is amended by the addition of the following:

The Contractor must first receive written approval from the Owner before stockpiling material at site(s) not identified in the contract documents.

### **CONCRETE SIDEWALK**

**OPSS.MUNI 351, November 2021, Construction Specification for Concrete Sidewalk, is amended by the following:**

#### **350.07 CONSTRUCTION**

##### **350.07.03 Concrete Placement**

##### **350.07.03.03 Texturing of Surface**

Subsection 350.07.03.03 is amended by the addition of the following:

The concrete ramp shall receive a final texturing of broom finish.

##### **350.07.04 Curing**

Subsection 350.07.04 is amended by the addition of the following:

Curing compound application rate shall not be less than the rate specified by the manufacturer of the compound.

#### **350.09 MEASUREMENT FOR PAYMENT**

**350.09.01 Actual Measurement**

Section 350.09.01 is amended by the addition of the following:

350.09.01.01 Concrete Ramp

Measurement shall be the surface area of the concrete ramp placed in square meters.

**350.10 BASIS OF PAYMENT**

Section 350.10 is modified by the addition of the following:

350.10.02 Concrete Ramp – Item

Payment at the contract price for the above tender item shall be full compensation for all labour, Equipment and Material to do the work.

**CONCRETE CURB AND GUTTER**

**OPSS.MUNI 353, November 2021, Construction Specification for Concrete Curb and Gutter Systems, is amended by the following.**

**353.07 CONSTRUCTION**

**353.07.01 General**

The curb type shall be drop curb where shown on the contract drawings.

The curb type shall be barrier type as per OPSD 600.110 where it is neither drop curb nor mountable.

**PIPE SUBDRAINS**

**OPSS. MUNI 405, November 2017, Construction Specification for Pipe Subdrains, is amended by the following:**

**405.05 MATERIALS**

Sections 405.05.01 to 405.05.06 of OPSS.MUNI 405, November 2017 are deleted and replaced with the following:

Subdrains shall be 150 mm diameter, smooth wall perforated Plastic Pipe, with bell and spigot joints.

Acrylonitrile-butadiene-styrene (ABS) piping and fittings shall conform to ASTM D2751, with maximum SDR of 35, Joints shall be bell-and-spigot.

Polyvinyl chloride (PVC) pipe and fittings shall conform to ASTM D3034, ASTM F949, ASTM F758, Type PS 46. Joints shall be bell-and-spigot.

Corrugated Polyethylene (PE) and Fittings ASTM F405 and joints shall be bell-and-spigot.

#### Pipe Perforations

Circular Perforations in Plastic Pipe: Circular holes shall be cleanly cut not more than 9.5 mm or less than 4.8 mm in diameter and arranged in rows parallel to the longitudinal axis of the pipe. The spigot or tongue end of the pipe shall not be perforated for a length equal to the depth of the socket, and perforations shall continue at uniform spacing over the entire length of the pipe.

Slotted Perforations in Plastic Pipe: Circumferential slots shall be cleanly cut so as not to restrict the inflow of water and uniformly spaced along the length and circumference of the tubing. Width of slots shall not exceed 3.2 mm nor be less than 0.8 mm. The length of individual slots shall not exceed 10 percent of the inside nominal circumference on 100 to 200 mm diameter tubing.

### **405.07 CONSTRUCTION**

#### **405.07.02 Excavation**

Subsection 405.07.02 of OPSS.MUNI 405, is amended by the addition of the following:

The dimensions of the subdrain excavation shall be according to OPSD 216.021 Nov. 2017 Rev.3, unless otherwise indicated on the contract drawings or sections.

#### **405.07.04 Geotextile**

Subsection 405.07.04 of OPSS.MUNI 405, is amended by the addition of the following:

Knitted sock geotextile shall meet the physical property requirements shown in Table 1.

Table 1

Physical Requirements for Knitted Sock Geotextiles Laboratory Test	Test Method	Acceptance Requirements
Mullen Diaphragm Burst Strength, minimum, kPa	CAN/CGSB 4.2, Method No. 11.1	600
FOS, maximum, $\mu\text{m}$	CAN/CGSB 148.1, Method No. 10	500
Permittivity, minimum, s-1	CAN/CGSB 148.1, Method No. 4	2.75

The subdrain trench shall be wrapped in geotextile according to OPSD 216.021 Nov. 2017 Rev.3.

The embedment and backfill material shall be 19 mm clear stone.

#### **405.07.05 Bedding**

Subsection 405.07.05 of OPSS.MUNI 405, is amended by the addition of the following:

The depth of the subdrain bedding shall be according to OPSD 216.021 Nov. 2017 Rev.3.

**405.07.08 Closed-Circuit Television Inspection**

Subsection 405.07.08 of OPSS.MUNI 405, is amended by the addition of the following:

A closed-circuit television inspection shall be required as detailed in OPSS.MUNI 405, November 2017.

Pipe Perforations

Circular Perforations in Plastic Pipe: Circular holes shall be cleanly cut not more than 9.5 mm or less than 4.8 mm in diameter and arranged in rows parallel to the longitudinal axis of the pipe. The spigot or tongue end of the pipe shall not be perforated for a length equal to the depth of the socket, and perforations shall continue at uniform spacing over the entire length of the pipe.

Slotted Perforations in Plastic Pipe: Circumferential slots shall be cleanly cut so as not to restrict the inflow of water and uniformly spaced along the length and circumference of the tubing. Width of slots shall not exceed 3.2 mm nor be less than 0.8 mm. The length of individual slots shall not exceed 10 percent of the inside nominal circumference on 100 to 200 mm diameter tubing.

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The dimensions of the subdrain excavation shall be according to OPSD 216.021 Nov. 2017 Rev.3, unless otherwise indicated on the contract drawings or sections.

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FOS, maximum, $\mu\text{m}$	CAN/CGSB 148.1, Method No. 10	500
Permittivity, minimum, s-1	CAN/CGSB 148.1, Method No. 4	2.75

The subdrain trench shall be wrapped in geotextile according to OPSD 216.021 Nov. 2017 Rev.3. The embedment and backfill material shall be 19 mm clear stone.

**405.07.05 Bedding**

Subsection 405.07.05 of OPSS.MUNI 405, is amended by the addition of the following:

The depth of the subdrain bedding shall be according to OPSD 216.021 Nov. 2017 Rev.3.

**405.07.08 Closed-Circuit Television Inspection**

Subsection 405.07.08 of OPSS.MUNI 405, is amended by the addition of the following:

A closed-circuit television inspection shall be required as detailed in OPSS.MUNI 405, November 2017.

**REMOVE AND REINSTATE INTERLOCK PAVERS**

**OPSS.MUNI 355, November 2020, Construction Specification for the Installation of Interlocking Concrete Pavers, is amended by addition of the following:**

**355.05 MATERIALS**

**355.05.04 Concrete Pavers**

Size, shape, colour, thickness, and texture of any additional concrete pavers required to complete reinstatement are to match existing concrete pavers.

For placement of new concrete pavers size, shape, colour, thickness, and texture will be provided by the Owner to the Contractor at time of construction.

**355.05.05 Edge Restraints**

Type of edge restraint is to match existing.

**355.07 CONSTRUCTION**

**355.07.03 Subsurface Drainage**

Subsurface drainage to match existing.

**355.07.06 Laying Pattern**

For reinstatement of concrete pavers, pattern to be supplied to the Contractor by the Owner a minimum of 30 days prior to placement of pavers.

**355.07.11 Management of Excess Material**

The Contractor shall remove, salvage, and reinstate interlocking concrete pavers as follows:  
Materials designated for salvage shall be carefully removed, stored, and protected from damage. Salvaged materials shall be reinstated at locations specified in the Contract Documents. Any remaining excess material shall be managed and disposed of within the project limits.

**REMOVE AND REINSTATE STEEL POST/JUNCTION BOXES**

**SCOPE**

This Special Provision covers the requirements for the removal and reinstatement of existing steel posts and junction boxes. The work includes salvaging, protecting, and reinstalling the posts and junction boxes in their original locations, anchored into the newly constructed concrete sidewalk.

## **REFERENCES**

This work shall be performed in accordance with the requirements of the following specifications:

- OPSS.MUNI 106 – Electrical Work
- OPSS.MUNI 351 – Concrete Sidewalk
- OPSS.MUNI 610 – Removal of Electrical Equipment and Materials
- OPSS.MUNI 1001 – Aggregates – General

## **MATERIALS**

### **Existing Steel Posts and Junction Boxes**

All existing components shall be salvaged and reused unless otherwise directed by the Owner. Damaged or missing components shall be replaced with new materials of equivalent type and quality, subject to approval.

### **Anchoring Materials**

Anchoring shall be completed using epoxy grout or mechanical fasteners suitable for embedding in concrete, as approved by the Owner.

## **EQUIPMENT**

All Equipment used for removal, handling, and reinstatement shall be appropriate for the task and shall not damage the steel posts, junction boxes, or surrounding infrastructure.

## **CONSTRUCTION**

### **Removal**

Steel posts and junction boxes shall be carefully removed prior to sidewalk demolition. All components shall be protected from damage and stored securely until reinstatement.

### **Reinstatement**

Following sidewalk construction, posts and junction boxes shall be reinstated in their original locations. Posts shall be anchored into the new concrete sidewalk using approved methods. Junction boxes shall be reconnected to existing electrical infrastructure as required.

### **Restoration**

Any damage to posts, boxes, or adjacent surfaces shall be repaired to the satisfaction of the Owner.

## **MEASUREMENT FOR PAYMENT**

Measurement for payment shall be by the number of steel posts/junction boxes removed and reinstated.

## **BASIS OF PAYMENT**

Payment at the contract price(s) for the above tender item shall include all Labour, Equipment, and Material required to complete the work.

## **GEOTEXTILE** **GEOGRID**

**OPSS.MUNI 511, November 2019, Construction Specification for Rip-Rap, Rock Protection, and Granular Sheeting, is amended by the following:**

### **511.01 SCOPE**

Section 511.01 of OPSS 511 is amended by the addition of the following:

The Contractor shall supply, and place Geotextile and Geogrid on the subgrade and as detailed otherwise in the Contract Drawings.

### **511.05 MATERIALS**

Section 511.05 of OPSS 511 is amended by the addition of the following:

*Geogrid* – Geogrid shall be Terrafix BX 1500, or equal.

#### **511.05.01 Rip-Rep, Rock Protection, and Granular Sheeting**

Subsection 511.05.01 of OPSS 511 is amended by the addition of the following:

Rip-Rap shall be R-10 unless otherwise shown on the contract drawings.

#### **511.05.02 Geotextile**

Subsection 511.05.05 of OPSS 511 is amended by the addition of the following:

*Geotextile* – Geotextile shall be Terrafix 270R, or equal.

### **511.07 CONSTRUCTION**

Section 511.07 of OPSS 511, is amended by the addition of the following:

1. The placement operations shall be such that the geotextile is not exposed to daylight for more than 72 hours.

2. Adjacent sections of the geotextile shall be overlapped a minimum of 1.0m or shall be sewn together according to 4. (Below).
3. Seams of the geotextile shall be sewn with thread meeting the material requirements for the geotextile or shall be bonded by thermal or chemical means.
4. When sections of geotextile are joined by sewing, the seam strength shall be at least 90% of the minimum Grab tensile strength requirement for the class of geotextile specified in the contract documents.
5. Should the Geotextile be damaged, it shall be repaired by placing a piece of geotextile large enough to cover the damaged section meeting the above requirements for overlapping.
6. Geogrid is placed over the previously placed non-woven geotextile.
7. Overlap edges and ends shall be 0.3 – 0.9m.
8. Initial backfilling lift shall be 300mm minimum.
9. Compaction of initial lift shall be by static rolling (non-vibratory).

#### **511.09 MEASUREMENT FOR PAYMENT**

Section 511.09 of OPSS 511, is amended by the addition of the following:

Measurement of each of the above tender items shall be by area in square metres following the contours of the ground with no allowances made for overlaps.

#### **511.10 BASIS OF PAYMENT**

Section 511.10 of OPSS 511 is amended by the addition of the following:

Payment at the contract price(s) for each of the above tender items shall be full compensation for all labour, equipment, and material to do the work.

### **TOPSOIL, IMPORTED**

**OPSS.MUNI 802, November 2019, Construction Specification for Topsoil, is amended by the addition of the following:**

#### **802.07 CONSTRUCTION**

##### **802.07.01 Stockpiling Topsoil**

Subsection 802.07.01 of OPSS 802 is amended by the addition of the following:

The Contractor must first receive written approval from the Owner before stockpiling material at site(s) not identified in the contract documents.

##### **802.07.03 Placement of Topsoil**

Subsection 802.07.03 is amended by deleting the second paragraph in its entirety and replacing it with the following:

Topsoil shall be placed to a uniform depth of 100mm or as specified in the Contract documents.

**SEED AND COVER**

**OPSS.MUNI 804, November 2014, Construction Specification for Seed and Cover, is amended by the addition of the following:**

**804.05 MATERIALS**

**804.05.01 Seed**

**804.05.01.04 Permanent Seed Mixes**

Subsection 804.05.01.04 of OPSS 804 is amended by the addition of the following:

Seed mix shall be Kentucky Blue Grass.

**804.05.04 Cover**

Subsection 804.05.04 of OPSS 804 is amended by the addition of the following:

Cover shall be Hydraulic Mulch.

**END OF ITEM SPECIAL PROVISIONS**

## **APPENDIX G (B) - TECHNICAL SPECIFICATIONS (Continued)**

The Technical Specifications for **the Cochrane Station Parking Lot – Electrical Specifications** are attached to and form part of this Appendix G, as outlined below.

### **A. Ontario Municipal and Provisional Standard Specifications Common (OPSSs)**

Proponents shall refer to the below applicable specifications by visiting this link:

[Ontario Provincial Standards](#)

604	Muni	Nov. 2017	Installation of Cable
609	Muni	Nov. 2019	Grounding
610	Muni	Apr. 2017	Removal of Electrical Equipment and Materials
614	Muni	Nov. 2019	Installation of Power Supply Equipment
615	Muni	Nov. 2022	Installation of Poles
616	Muni	Apr. 2018	Footings and Pads for Electrical Equipment
617	Muni	Nov. 2019	Installation of Roadway Luminaires

*Current OPSS All material specification referenced in the above.*

**Ontario Provincial Standard Drawings (OPSDs)**

OPSD	Title	Dwg. Rev.	Issue Date
2000.001	Abbreviations, General	1	Nov '18
2011.101	General Symbols, Ducts and Cables	1	Nov '18
2011.201	General Symbols, Maintenance Holes, Junction Boxes, Pads, and Footings	1	Nov '18
2011.401	General Symbols, Poles and Guying	1	Nov '18
2011.501	General Symbols, Power Supply Equipment	1	Nov '18
2014.101	Wiring Symbols, Wiring Diagrams 1	1	Nov '18
2014.102	Wiring Symbols, Wiring Diagrams 2	1	Nov '18
2100.010	Cable Installation in Trenches	0	Nov '13
2100.050	Cable and Duct Protection and Marking	0	Nov '13
2101.010	Duct Installation in Trenches	2	Apr '24
2103.020	Duct Installation, Profiles	2	Apr '24
2103.030	Rigid Duct Installation in Existing Paved Area, Unshrinkable Backfill Method	2	Nov '25
2103.040	Rigid Duct Installation in Existing Paved Area, Granular Backfill Method	1	Nov '25
2112.020	Electrical Handhole, Precast Concrete With Cover, 460 mm Diameter	0	Nov '17
2113.010	Electrical Handhole, Non and Semi-Concrete, General Requirements	1	Nov '17
2118.010	Electrical Chamber, Installation in Median	1	Nov '17
2118.020	Electrical Chamber, Installation in Slope	1	Nov '17
2123.010	Electrical Maintenance Holes, Entry of Direct Buried Ducts	2	Nov '22
2200.010	Concrete Footing for Base Mounted Lighting and Signal Poles	2	Nov '12
2200.011	Raised Concrete Footing for Base Mounted Lighting Poles	0	Nov '10

2210.010	Local Grading at Pole Foundations	0	Nov '13
2215.020	Anchorage Assembly for Lighting and Signal Poles	5	Apr '24
2215.030	Pole Mounting Details for Base Mounted Metal Pole	5	Apr '24
2220.010	Pole Handhole Locations	2	Nov '22
2255.030	Lighting Pole Wiring Diagram, 347/600 V System	2	Apr '23
2415.011	Steel Pole, Base Mounted	2	Nov '21
2420.010	Aluminum Tapered Elliptical Bracket	1	Nov '22
2440.021	Supply Control Cabinet Assembly, Type 2, 347/600 V, 100 A, 3-Phase, 4-Wire	0	Nov '14

## **B. Item Special Provisions**

Item Special Provisions prepared by **EXP Services Inc.** are included in this Appendix.

**ONTARIO NORTHLAND TRANSPORTATION  
COMMISSION**

**ONTC PARKING LOT COCHRANE  
STATION PARKING LOT**

**EXP PROJECT NO. NWL-25002304-00**

**ITEM SPECIAL PROVISIONS**

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**ENGINEERS:  
EXP SERVICES INC.  
P.O. BOX 1208  
310 WHITEWOOD AVENUE W.  
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P0J 1P0  
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**OWNER:  
ONTARIO NORTHLAND  
TRANSPORTATION COMMISSION  
200A RAILWAY STREET  
COCHRANE, ONTARIO  
P0L 1C0  
TEL: 705-272-5338**

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## **GENERAL ELECTRICAL**

OPSS.MUNI 106, April 2023, General Specification for Electrical Work, is amended by the following:

### **106.07 CONSTRUCTION**

#### **106.07.01 General**

The Contractor shall field-verify the exact location, condition, and manufacturer of the existing 600/347V distribution panel prior to commencing work or ordering materials. Notify the Engineer immediately of any discrepancies.

The Contractor shall obtain all required Electrical Safety Authority (ESA) permits and pay all associated fees.

### **106.08 QUALITY ASSURANCE**

The Contractor shall submit Shop Drawings for all luminaires, poles, and breakers for Engineer review and approval prior to procurement.

### **106.10 BASIS OF PAYMENT**

Payment for "General Electrical" shall be included in the various tender items and shall be full compensation for all labor, equipment, and material to complete the work, including coordination with local utilities and ESA.

## **REMOVAL OF ELECTRICAL EQUIPMENT AND COMPONENTS**

OPSS.MUNI 610, April 2017, Construction Specification for Removal of Electrical Equipment and Components, is amended by the following:

### **610.07 CONSTRUCTION**

#### **610.07.01 General**

**Subsection 610.07.01 is amended by the addition of the following:**

The Contractor is advised that no "As-Built" records exist for the underground lighting infrastructure. The Contractor shall be responsible for locating all existing underground conduits and wiring associated with the existing parking lot lighting system.

All existing poles, luminaires, and concrete footings identified for removal shall be completely removed from the site.

Associated branch circuit wiring shall be removed back to the source at the existing 600/347V distribution panel. Redundant conduits shall be abandoned in place or removed as directed by the Engineer. Any holes or depressions resulting from removals shall be backfilled with native material and compacted to match existing conditions.

## **610.10 BASIS OF PAYMENT**

### **610.10.01 General**

Payment at the contract price for "Removal of Electrical Equipment and Components" shall be a Lump Sum and shall be full compensation for all labor, equipment, and materials to locate, disconnect, remove, and dispose of all existing electrical components as specified.

## **POWER SUPPLY EQUIPMENT**

OPSS.MUNI 614, **November 2019**, Construction Specification for Installation of Power Supply Equipment, is amended by the following:

### **614.05 MATERIALS**

**614.05.01 General** Subsection 614.05.01 is amended by the addition of the following:

All electrical equipment and components, including the new circuit breaker, shall be new and shall bear evidence of CSA (Canadian Standards Association) approval or an equivalent certification recognized by the Electrical Safety Authority (ESA).

### **614.07 CONSTRUCTION**

**614.07.01 General** Subsection 614.07.01 is amended by the addition of the following:

The Contractor is advised that there are no existing drawings detailing the exact location or configuration of the existing power supply. The Contractor shall be responsible for field-verifying the power supply location, existing panel capacity, and available breaker spaces on site prior to commencing work or ordering materials. Notify the Engineer immediately of any discrepancies.

All work shall be performed in strict accordance with the current edition of the **Ontario Electrical Safety Code (OESC)** and all applicable local utility requirements.

**614.07.02 Distribution Assemblies** Subsection 614.07.02 is amended by the addition of the following:

The Contractor shall supply and install two (2) new **15A, 3-pole circuit breaker** in the existing 600/347V distribution panel to feed the new lighting circuits. The new breaker shall be of the

same manufacturer and series as the existing panelboard to maintain the equipment's UL/CSA listing and interrupt rating. The contractor to confirm short circuit rating on existing panel breaker before shop drawing submission.

#### **614.10 BASIS OF PAYMENT**

Payment at the contract price for "Power Supply Equipment" shall be full compensation for all labor, equipment, and material to verify the supply location, supply and install the OESC-compliant 15A-3P breaker, and make all necessary connections to energize the new lighting system.

#### **RIGID CONDUITS DIRECT BURIED**

OPSS.MUNI 603, November 2024, Construction Specification for Installation of Ducts, is amended by the following:

#### **603.05 MATERIALS**

##### **603.05.08 Rigid PVC Conduit**

All underground wiring shall be installed in 50mm (2") Rigid PVC conduit unless otherwise noted on the drawings. Conduits under vehicular traffic shall be Schedule 80.

#### **603.07 CONSTRUCTION**

##### **603.07.13 Earth Excavation**

Conduits shall be installed at a minimum depth of 750mm below finished grade.

##### **603.05.03 Sand Bedding**

Subsection 603.05.03 is amended by the addition of the following:

To protect the conduit from physical damage and soil movement, the Contractor shall provide a minimum of 150mm of compacted, clean sand bedding both below and above the conduit. Native material shall not be used for initial backfill within 150mm of the duct.

#### **603.08 QUALITY ASSURANCE**

The Contractor shall provide the Engineer with a survey or red-line drawing showing the exact "As-Built" location of all conduits prior to backfilling.

#### **603.10 BASIS OF PAYMENT**

Payment at the contract price per linear meter for "Rigid Conduits" shall be full compensation for all trenching, sand bedding, supply and installation of conduit, warning tape, and backfilling to original grade.

### **LOW VOLTAGE CABLES**

OPSS.MUNI 604, November 2017, Construction Specification for Installation of Cables, is amended by the following:

#### **604.05 MATERIALS**

##### **604.05.01 Cables**

All conductors shall be #8 AWG stranded copper with RW90 or XHHW-2 insulation (600V rated).

#### **604.07 CONSTRUCTION**

##### **604.07.01 General**

This lighting system is a multi-wire branch circuit. The Contractor must distribute fixture loads across Phase A (Red), Phase B (Black), and Phase C (Blue) as shown on the Wiring Diagram to ensure a balanced system.

##### **604.07.05 Cable Splicing and Terminating**

All splices in handholes shall be made using submersible-rated multi-port insulated connectors (e.g., Polaris-style).

#### **604.08 QUALITY ASSURANCE**

The Contractor shall perform insulation resistance testing on all new cables. Results shall be recorded and submitted to the Engineer.

#### **604.10 BASIS OF PAYMENT**

Payment for "Low Voltage Cables" shall be by the linear meter and shall be full compensation for all conductors, terminations, connectors, and testing.

### **GROUND WIRE AND GROUND ELECTRODES**

OPSS.MUNI 609, November 2019, Construction Specification for Grounding, is amended by the following:

### **609.05 MATERIALS 609.05.01 Grounding Wires**

Bonding conductor shall be 1-#6 AWG green insulated stranded copper.

### **609.10 BASIS OF PAYMENT**

Payment for grounding items shall be included in the unit price for "Poles" and shall be full compensation for the #6 wire and copper-clad ground rods.

### **STEEL POLES, BASE MOUNTED**

OPSS.MUNI 615, November 2022, Construction Specification for Erection of Poles, is amended by the following:

### **615.05 MATERIALS**

Poles shall be 30ft square steel, Black finish, with handhole and cover.

### **615.08 QUALITY ASSURANCE**

Poles shall be inspected for finish damage upon arrival. Any scratches shall be repaired with manufacturer-approved touch-up paint.

### **615.10 BASIS OF PAYMENT**

Payment at the contract unit price for each "Steel Pole" shall be full compensation for the pole, handhole, leveling nuts, and hardware.

### **CONCRETE FOOTINGS IN EARTH**

OPSS.MUNI 616, April 2018, Construction Specification for Footings, is amended by the following:

### **616.07 CONSTRUCTION**

Raised concrete footings extending 600mm above finished grade shall be provided at all locations exposed to vehicle traffic or snow removal operations.

### **616.10 BASIS OF PAYMENT**

Payment for "Concrete Footings" shall be per each and includes all excavation, concrete, reinforcement, and anchor bolts.

**LED LUMINAIRES AND BRACKET ASSEMBLIES**

OPSS.MUNI 617, November 2019, Construction Specification for Installation of Luminaires, is amended by the following:

**617.05 MATERIALS**

Luminaires shall be Cooper Lighting Galleon Series (347V, 4000K, Black).

- **Type 1:** Triple Head (Cat# GLEON-SA2D-740-9-5WQ)
- **Type 2:** Single Head (Cat# GLEON-SA2D-740-9-13)

**617.08 QUALITY ASSURANCE**

The Contractor shall provide a 5-year manufacturer warranty on all LED luminaires.

**617.10 BASIS OF PAYMENT**

Payment at the contract unit price for each "Luminaire" shall be full compensation for the fixture, internal wiring, fusing, and aiming.

<b>END OF ITEM SPECIAL PROVISIONS</b>
---------------------------------------

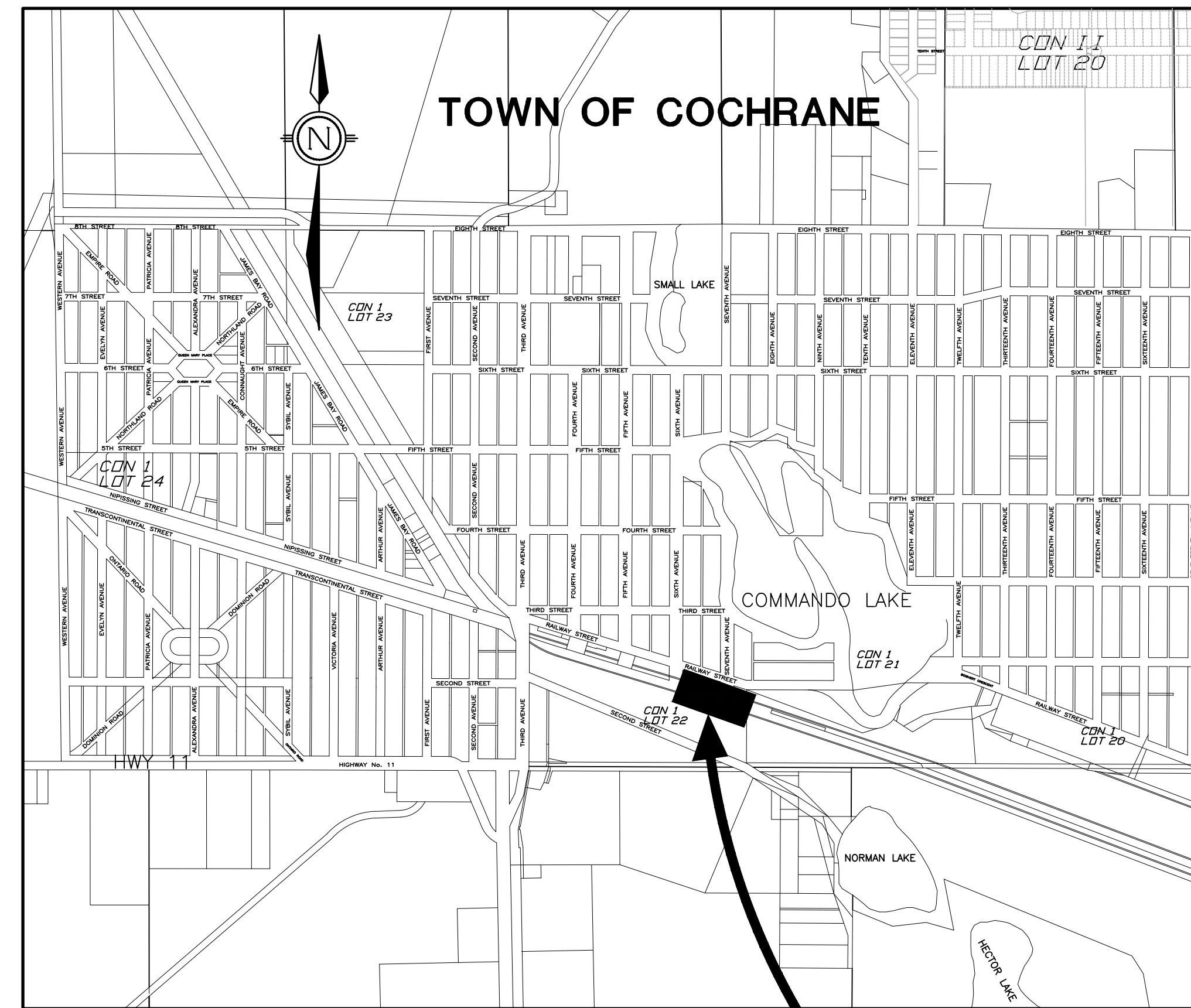
## APPENDIX H - ISSUE FOR TENDER DRAWINGS

Refer to the Issue for Tender Drawings as outlined below, and which are attached to this Appendix H.

<b>Drawing No.</b>	<b>Description</b>	<b>Drawing / Revision</b>
Cover Sheet	Plan 25-1298 Cover Sheet	Drawing 1 – Rev 1
Drawing 1	Plan 25-1298 – Index	Drawing 1 – Rev 1
Drawing 2	Plan 25-1298 – Legend	Drawing 2 – Rev 1
Drawing 3	Plan 25-1298 – Removals	Drawing 3 – Rev 2
Drawing 4	Plan 25-1298 – Civil Works Sta. 1+000 to 1+281	Drawing 4 – Rev 2
Drawing 5	Plan 25-1298 – Civil Works Sta. 1+281 to 1+460	Drawing 5 – Rev 2
Drawing 6	Plan 25-1298 – Site Grading Sta. 1+000 to 1+281	Drawing 6 – Rev 2
Drawing 7	Plan 25-1298 – Site Grading Sta. 1+281 to 1+460	Drawing 7 – Rev 2
Drawing 8	Plan 25-1298 – Storm Laterals	Drawing 8 – Rev 2
Drawing 9	Plan 25-1298 – Line Painting	Drawing 9 – Rev 2
Drawing E-101	Plan 25-1298 – Removals Layout	Drawing E-101 – Rev 1
Drawing E-102	Plan 25-1298 – Lighting Layout	Drawing E-102 – Rev 1
Drawing E-103	Plan 25-1298 – Wiring Diagram	Drawing E-103 – Rev 1
C12-203	Cochrane Station Civil Existing Utilities Composite Plan (Reference Only)	C12-203 – IFC
CSK12-201	Cochrane Station Civil General Site Plan	CSK12-201 - IFC
CSK-12-202	Cochrane Station Civil Grading Plan (1 of 2)	CSK12-202 - IFC
CSK-12-202A	Cochrane Station Civil Grading Plan (2 of 2)	CSK12-202A - IFC

# ONTARIO NORTHLAND TRANSPORTATION COMMISSION

CONTRACT  
DRAWINGS



PROJECT:  
NWL-25002304-00  
PLAN: 25-1298

AREA  
OF WORK

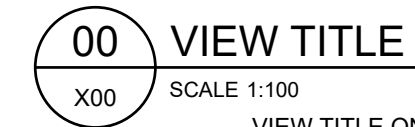
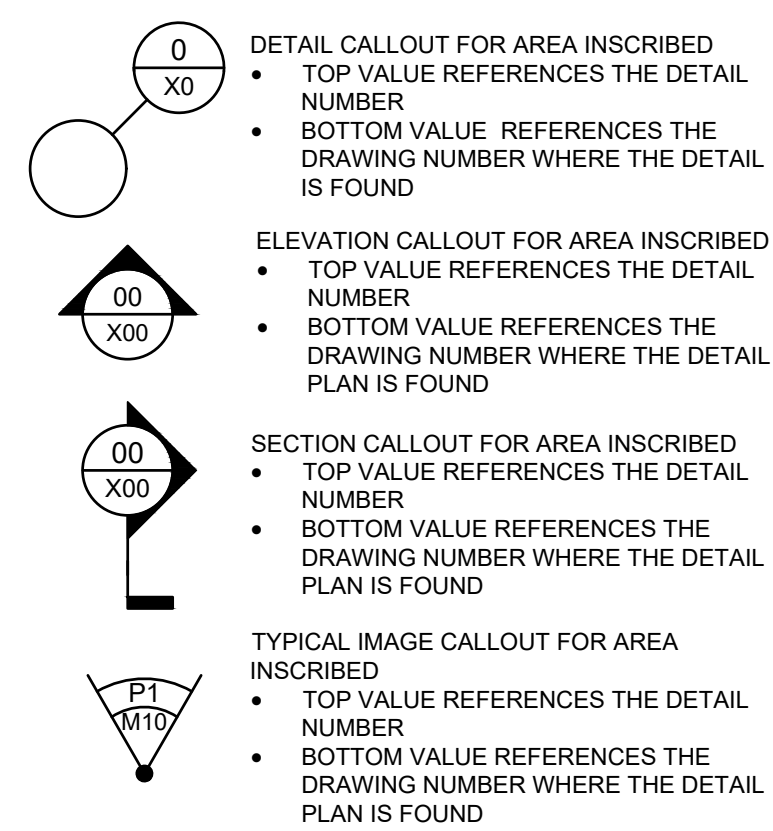


## ONTC COCHRANE STATION PARKING LOT



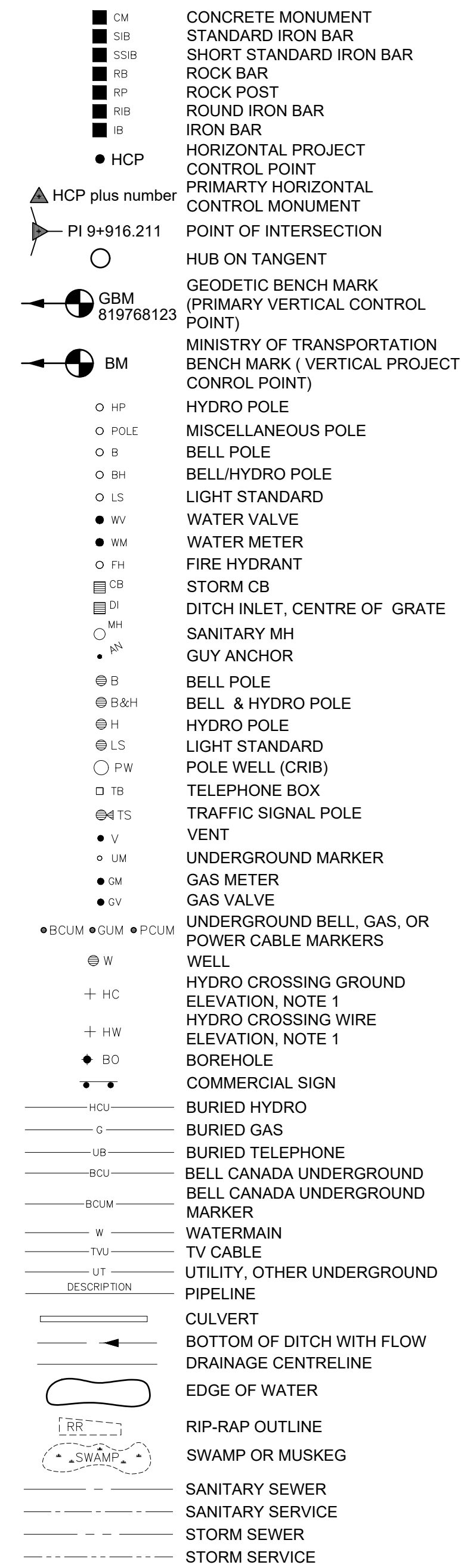


**GENERAL DRAWING SYMBOLS AND CROSS REFERENCE DEMARCATIIONS**

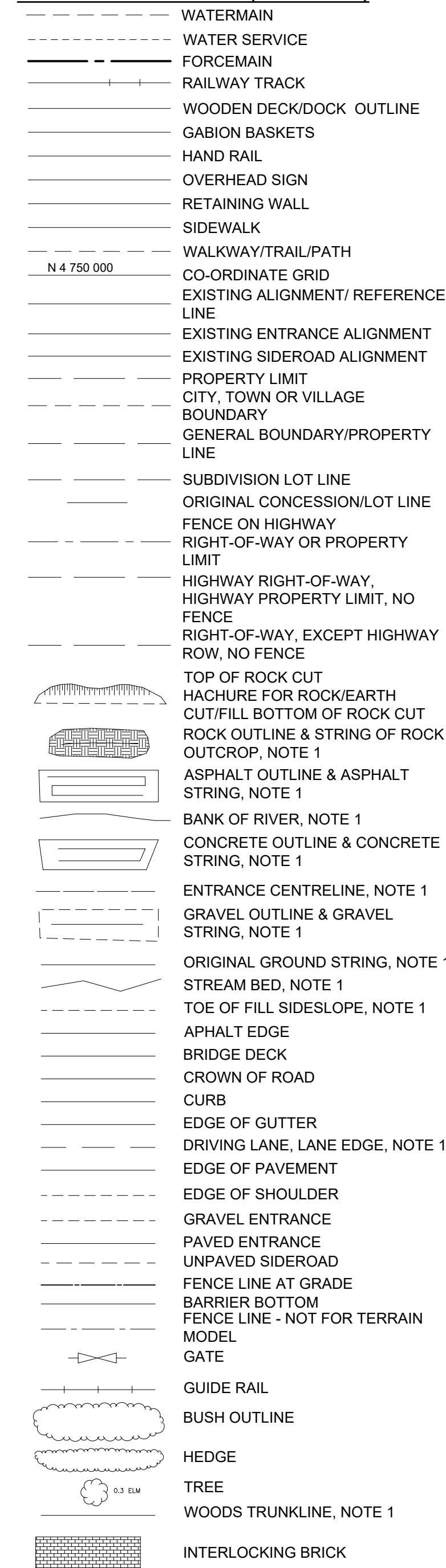


- VIEW TITLE ON SHEET
- TOP VALUE REFERENCES THE DETAIL NUMBER
  - BOTTOM VALUE REFERENCES THE DRAWING NUMBER WHERE THE REFERENCED CALLOUT IS FOUND

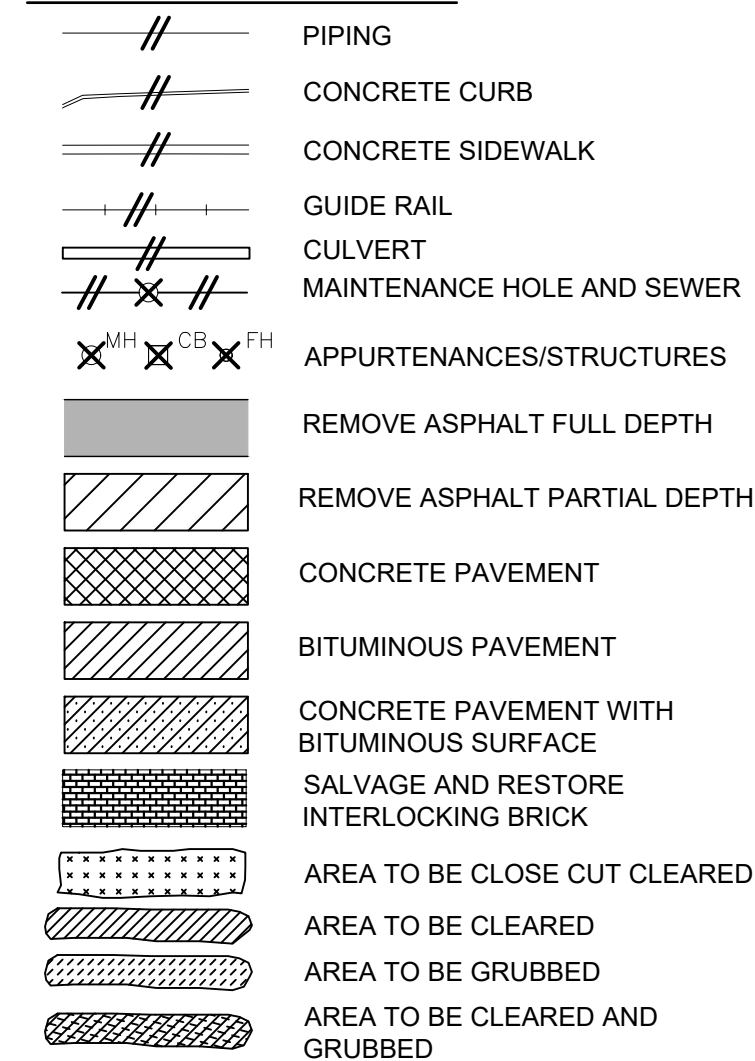
**CIVIL LEGEND - EXISTING**



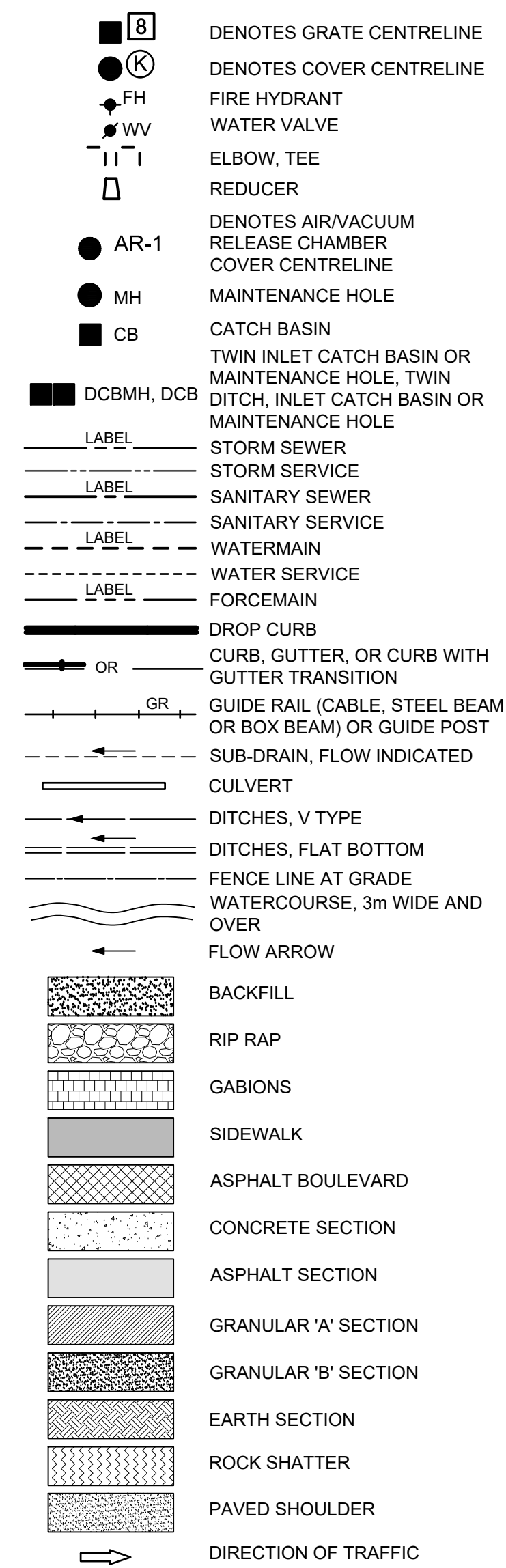
**CIVIL LEGEND - EXISTING (CONTINUED)**



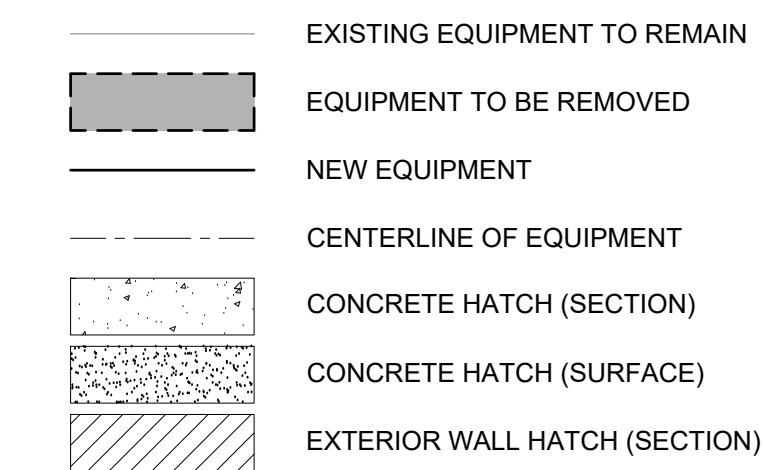
**CIVIL LEGEND - REMOVALS**



**CIVIL LEGEND - PROPOSED**



**MECHANICAL LEGEND**



**ABBREVIATIONS**

AC&G	ASPHALT CURB WITH GUTTER	ID	INSIDE DIAMETRE	Tensile Strength	TENSILE STRENGTH
AC PI	ASPHALT COATED AND PAVED INVERT	IF	IRON FENCE OR INSIDE FACE	TOE OF SLOPE	OR TOE OF SLOPE
AE	ASPHALT EDGE	Incl (ing)	INCLUDE (ing) (sive)	Twp	TOWNSHIP
AG	ASPHALT GUTTER	Inst	INSTRUMENT	Typ	TYPICAL
Asph	ASPHALT	Inv Elev	INVERT ELEVATION	U/S	UNDERSIDE
A S/W	ASPHALT SIDEWALK	IP	IRON PIPE	Var	VARIABLE, VARIABLE
Ave.	AVENUE	L	LENGTH OF LENGTH OF CURVE	VC	VERTICAL CURVE
B or BOT	BOTTOM	La	LENGTH OF SPIRAL BETWEEN CIRCULAR CURVE	VCP	VERTICAL CLAY PIPE
BC	BEGINNING OF CURVE	LS	LENGTH OF SPIRAL CURVE	Vert	VERTICAL
BCA	BELL CABLE AERIAL	LT	LONG TANGENT	Vol	VOLUME
BCU	BELL CABLE UNDERGROUND	LVC	LENGTH OF VERTICAL CURVE	W.M	WATERMAIN
BCUM	BELL CABLE UNDERGROUND MARKER	Max	MAXIMUM	WB	WESTBOUND LANE
BD	BOTTOM OF DITCH	Med	MEDIAN	WBL	WESTBOUND LANE
Bld (y)	BOULDER	MH	MAINTENANCE HOLE	WF	WIRE FENCE
Blvd	BOULEVARD	Min	MINIMUM	WIF	ROUGH IRON FENCE
BM	BENCH MARK	Mon	MONUMENT	WL	WATER LEVEL
Br	BRICK	MTO	ONTARIO MINISTRY OF TRANSPORTATION	WMF	WIRE MESH FENCE
BVC	BEGINNING OF VERTICAL CURVE	Mun	MUNICIPAL	W/O	WATER OUT
Can	CANADIAN	N (ing)	NORTH (ing)	WT	WATER TABLE
Can	CATCH BASIN	NB	NORTHBOUND	WW	WING WALL
CB	CATCH BASIN	NBL	NORTHBOUND LANE	WWF	WELDED WIRE FABRIC
CBMH	CATCH BASIN - MAINTENANCE HOLE	NC	NORMAL CROWN		
CGR	CABLE GUIDE RAIL	NIC	NOT IN CONTRACT		
CIP	CLAY PIPE	No	NUMBER		
Circ	CIRCULAR	NTS	NOT TO SCALE		
C/L or C	CENTRELINE	OD	OUTSIDE DIAMETER		
CLF	CHAIN LINK FENCE	OG	ORIGINAL GROUND		
Co	COUNTY	OPSD	ONTARIO PROVINCIAL STANDARD DRAWING		
Conc or C	CONCRETE	OPSS	ONTARIO PROVINCIAL STANDARD SPECIFICATION		
Const or C	CONSTRUCTION	Orig or O	ORIGINAL		
CP	CONCRETE PIPE	Pavt	PAVEMENT		
CS	CURB STOP	Perf	PERFORATED		
CSP	CORRUGATED STEEL PIPE	PE	POLYETHYLENE		
CSPA	CORRUGATED STEEL PIPE ARCH	PI	POINT OF INTERSECTION		
C S/W	CONCRETE SIDEWALK	PL	PROPERTY LINE		
Culv	CULVERT	PL	POINT ON CURVE		
C/W	COMPLETE WITH	POC	POINT OF REVERSE CURVE		
D	DITCH	Prf	PROFILE		
Def	DEFLECTION	PVC	POINT OF VERTICAL CURVE OR POLYVINYL CHLORIDE		
Deg	DEGREE	PVT	POINT ON VERTICAL TANGENT		
DI	DITCH INLET OR DUCTILE IRON	R	RADIUS		
Dia	DIAMETRE	RC	ROCK CUT		
DICB	DITCH INLET CATCH BASIN	REF	REFERENCE		
Dist	DISTANCE	Reinf	REINFORCED		
Div	DIVISION	Reqd	REQUIRED		
DL	DRIVING LANE	Rev	REVISION		
D/W	DRIVEWAY	R Exc	ROCK EXCAVATION		
Dwg	DRAWING	RH	RIGHT HAND		
EB	EASTBOUND	Rk	ROCK		
EBL	EASTBOUND LANE	Rnd	ROUNDING		
EC	END OF CURVE	ROW	RIGHT-OF-WAY		
Elev or El	ELEVATION	RP	REFERENCE POINT OR REGISTERED PLAN		
EMH	ELECTRICAL MAINTENANCE HOLE	RR	RIP-RAP		
Ent	ENTRANCE	RW	RETAINING WALL		
EP	EDGE OF PAVEMENT	Rwy	RAILWAY		
ES	EDGE OF SHOULDER OR END OF SUPERELEVATION	S	RATE OF SUPERELEVATION		
EVC	END OF VERTICAL CURVE	San	SANITARY		
EW	EACH WAY	SB	SOUTHBOUND		
Exc	EXCAVATION	SBGR	STEEL BEAM GUIDE RAIL		
EX	EXISTING	SBL	SOUTHBOUND GUIDE RAIL		
Exp	EXPANSION	SC	SPIRAL TO CIRCULAR CURVE		
FF	FRONT FACE	SD	SIDE DITCH		
FFL	FINISH FLOOR LEVEL	Serv Rd	SERVICE ROAD		
FL	FENCE LINE	SF	STONE FENCE		
Flg	FOOTING	Sh Rk	SHOT ROCK		
FR	FRAME	SHLD, Sh, or SH	SHOULDER		
Ga	GAUGE	SP	SPECIAL PROVISION		
Galv	GALVANIZED	Spec	SPECIFICATION		
Gar	Garage	SQ	SQUARE		
GB	GRANULAR BASE	SR	SIDE ROAD		
GBC	GRANULAR BASE COURSE	ST	SPIRAL TO TANGENT OR SHORT TANGENT OR STORM SEWER		
GBfl	GRANULAR BACKFILL	SI	STRIPPING		
GC	GRADING AND CULVERTS	STA	STATION		
GD	GRADING AND DRAINAGE	Std	STANDARD		
GL	GROUND LEVEL	Stm	STORM		
GP	GRADE POINT	Str (al)	STRUCTUR (al)		
Gran	GRANULAR	STY	STOREY		
GSB	GRANULAR SUB BASE	Surf	SURFACE		
HM	HOT MIX	S/W	SIDEWALK		
HOC	HUB ON CURVE	T	TOP		
HOST	HUB ON SUBTANGENT	TB	TOP OF BANK OR TURNING BASIN		
HOT	HUN ON TANGENT	T&B	TOP AND BOTTOM		
Hor	HORIZONTAL	TCH	TRANS CANADA HIGHWAY		
HP	HIGH POINT	TG or T/G	TOP OF GRATE		
Ht	HEIGHT	TP	TOP OF PAVEMENT		
Hw	HEAD WALL	TR or T/R	TOP OF RAIL		
HWL	HIGH WATER LEVEL	Trans	TRANSVERSE OR TRANSFERRED		
Hwy	HIGHWAY	TS	TANGENT TO SPIRAL OR		
Hyd	HYDRANT				
IB	IRON BAR				

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ONTARIO NORTHLAND TRANSPORTATION COMMISSION			
PROJECT TITLE			
COCHRANE STATION PARKING LOT			
PROJECT No. NWL - 25002304-00			
DRAWING TITLE			
LEGEND			
DESIGNED	SCALE		
EGL	AS SHOWN		
DRAWN	PLAN No.		
EGL	25-1298		
CHECKED	DRAWING No.		
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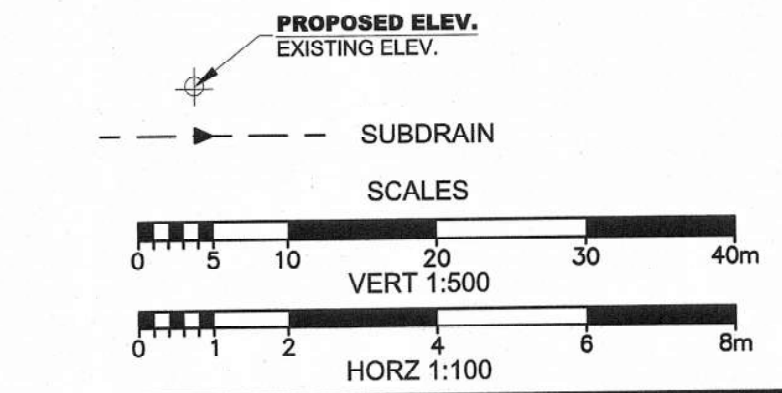
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LEGEND:

- ASPHALT SURFACE
- SEED AND COVER OVER 100mm TOPSOIL
- GRANULAR SURFACE
- CONCRETE
- INTERLOCK PAVERS
- CONCRETE CURB

PROPOSED ELEV. / EXISTING ELEV.

SUBDRAIN



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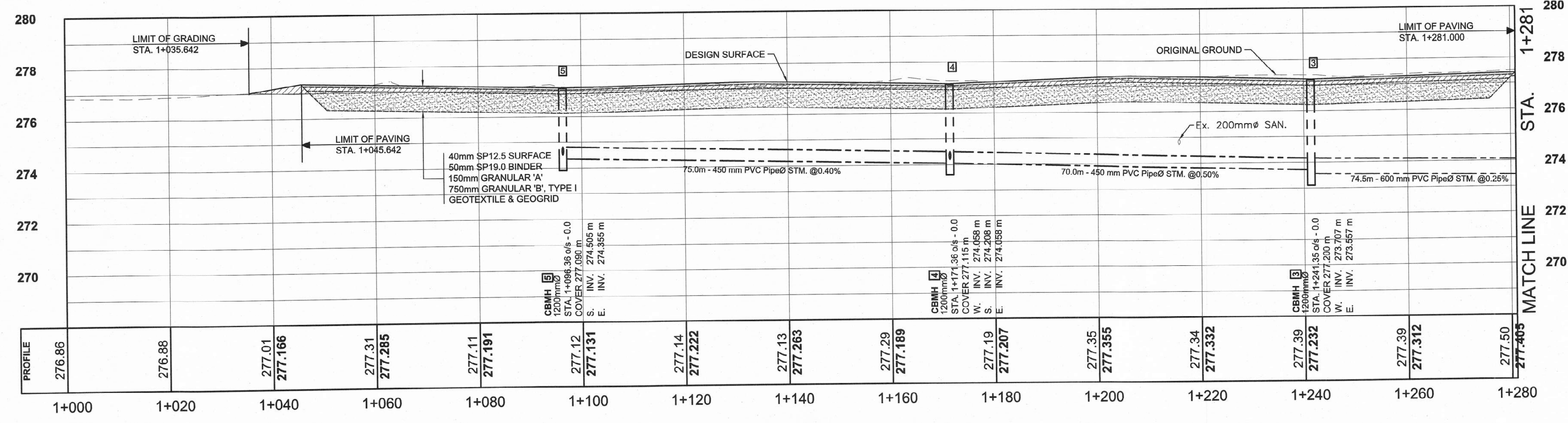
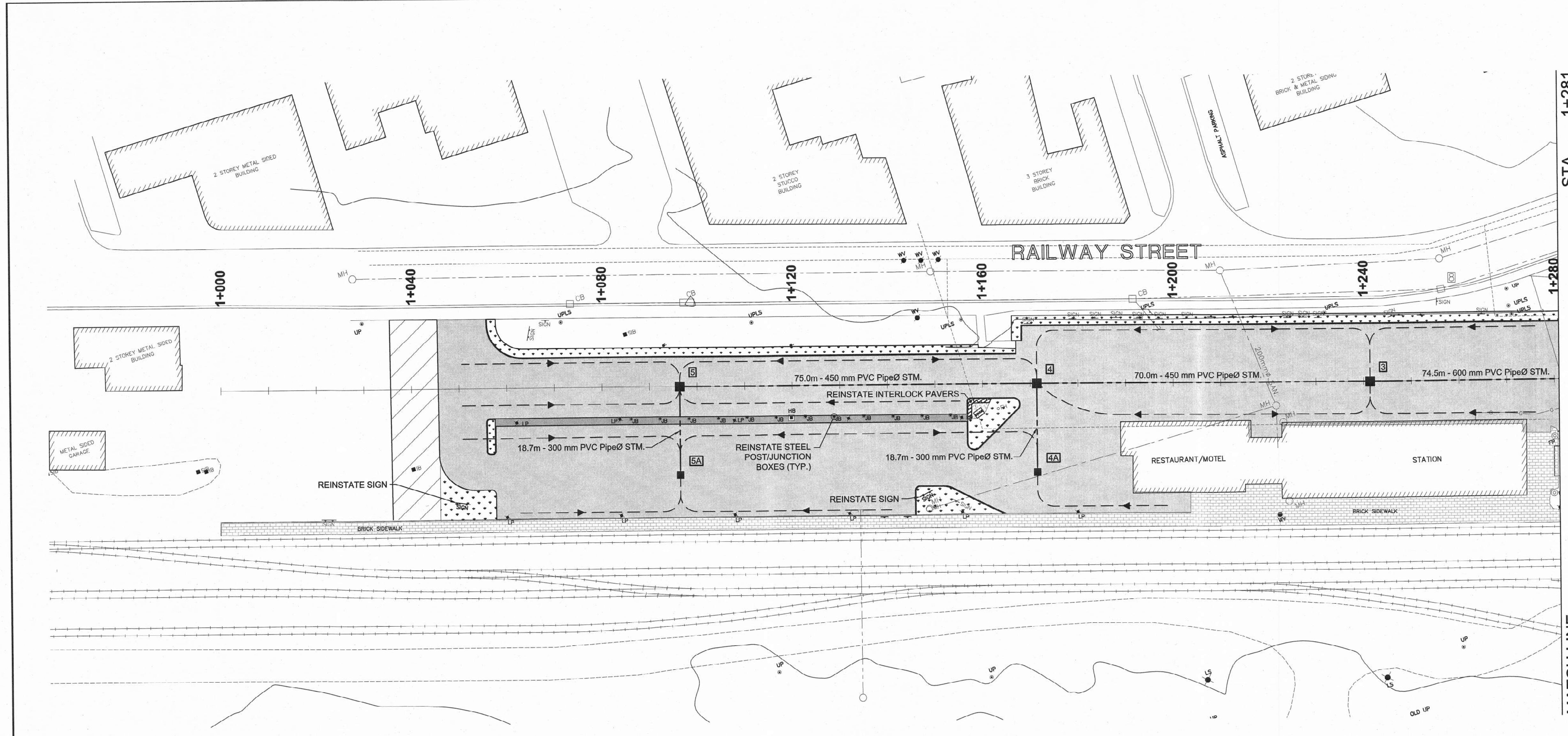
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PROJECT No.: NWL - 25002304-00

DRAWING TITLE: CIVIL WORKS STA. 1+000 TO 1+281

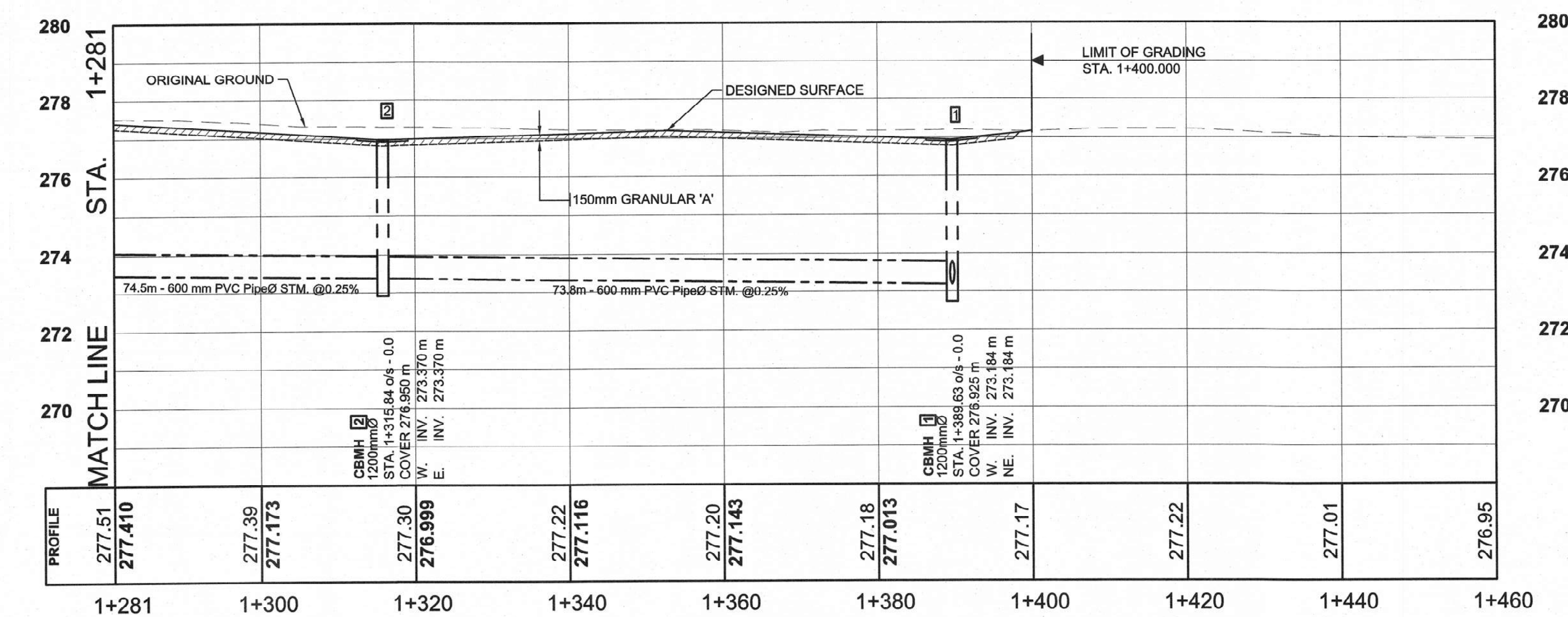
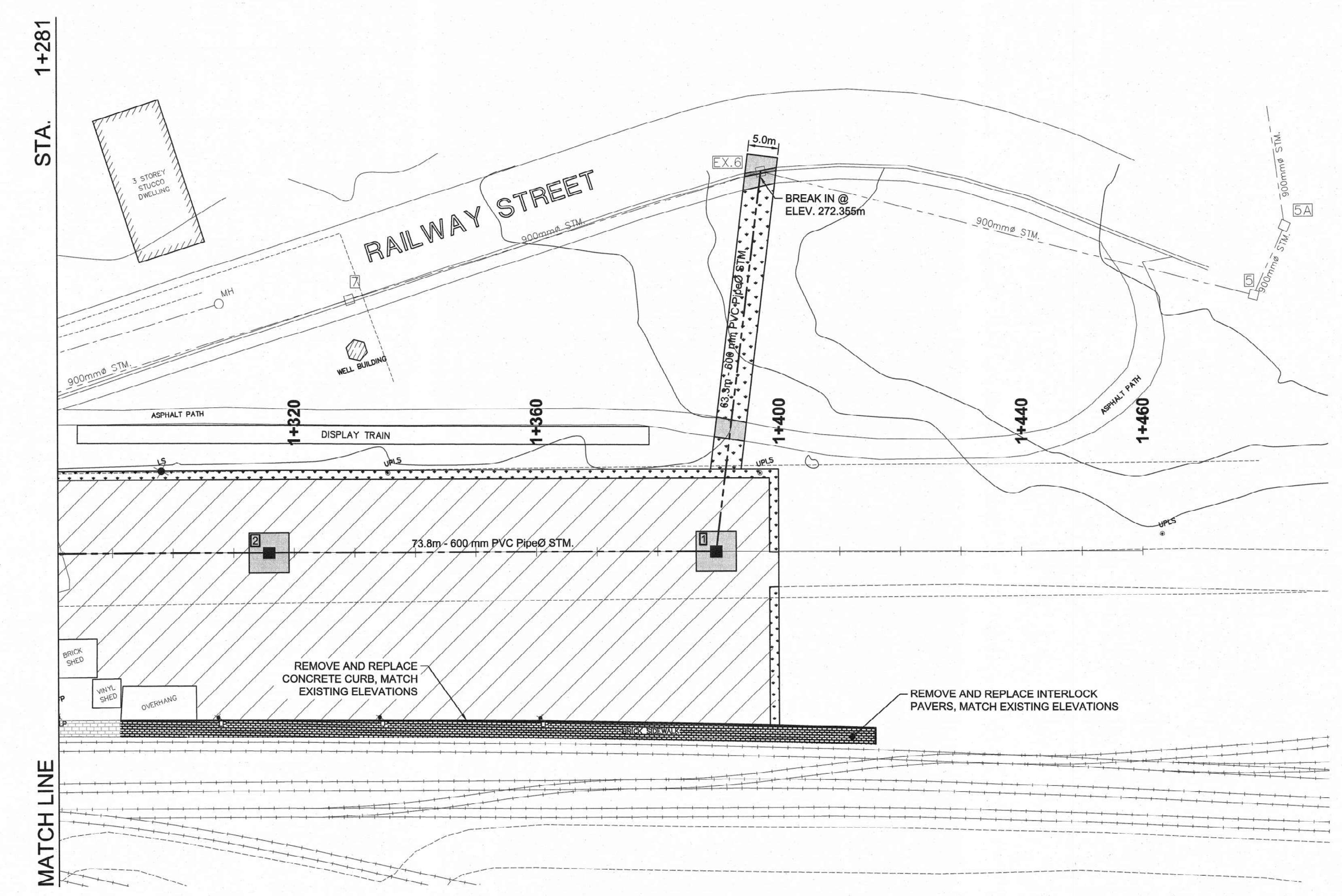
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1177985 2025.PM © ENGINEER PROJECT FILE: 25002304-00 ONTC COCHRANE STATION PARKING LOT 030 PROJECT: EXISTING AND PROPOSED PAVEMENT AND UTILITIES PLAN AND PROFILE DRAWING DATE: 2025-03-27

1:17/2025 3:05:44 PM S:\ENGINEERING\PROJECT FILES\25002304-00 DTC COCHRANE STATION PARKING LOT\PROJECT EXECUTION\EXP DRAWINGS\STA. 1+281 TO 1+460 - CIVIL.DWG



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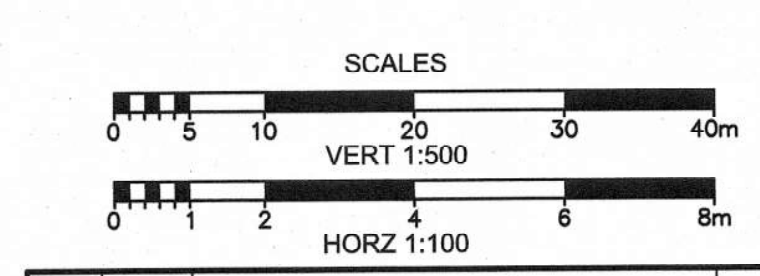
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LEGEND:

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- GRANULAR SURFACE
- CONCRETE
- INTERLOCK PAVERS
- CONCRETE CURB

PROPOSED ELEV.  
EXISTING ELEV.



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CLIENT: ONTARIO NORTHLAND TRANSPORTATION COMMISSION

PROJECT TITLE: COCHRANE STATION PARKING LOT


PROJECT No. NWL - 25002304-00

DRAWING TITLE: CIVIL WORKS STA. 1+281 TO 1+460

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	EGL	25-1298
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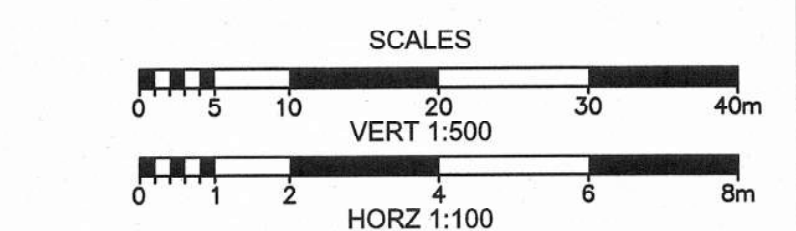
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PROPOSED ELEV.  
EXISTING ELEV.




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1	25/3/27	ISSUED FOR CLIENT REVIEW	EGL

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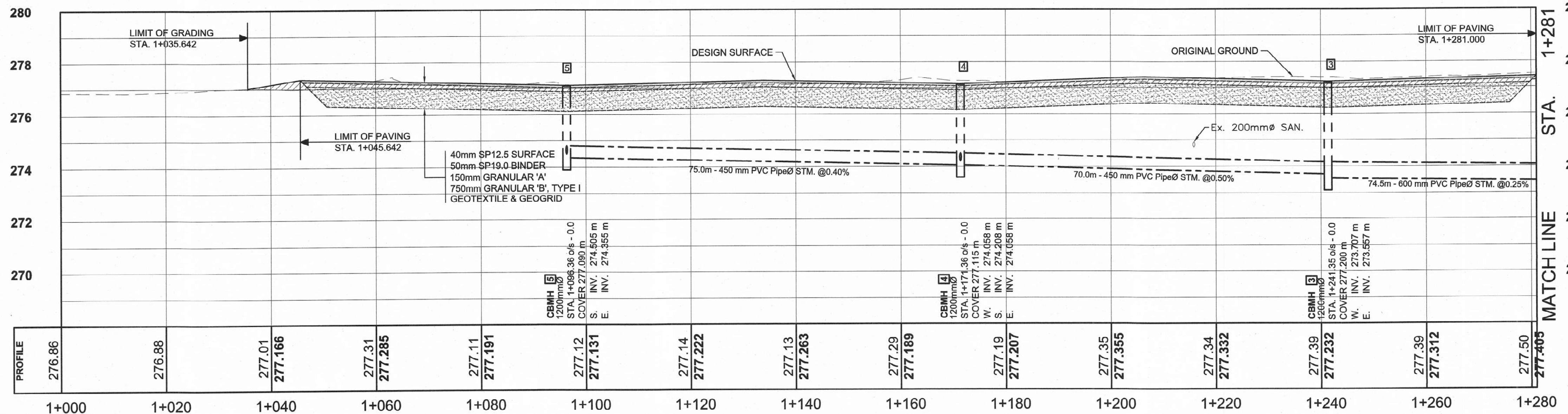
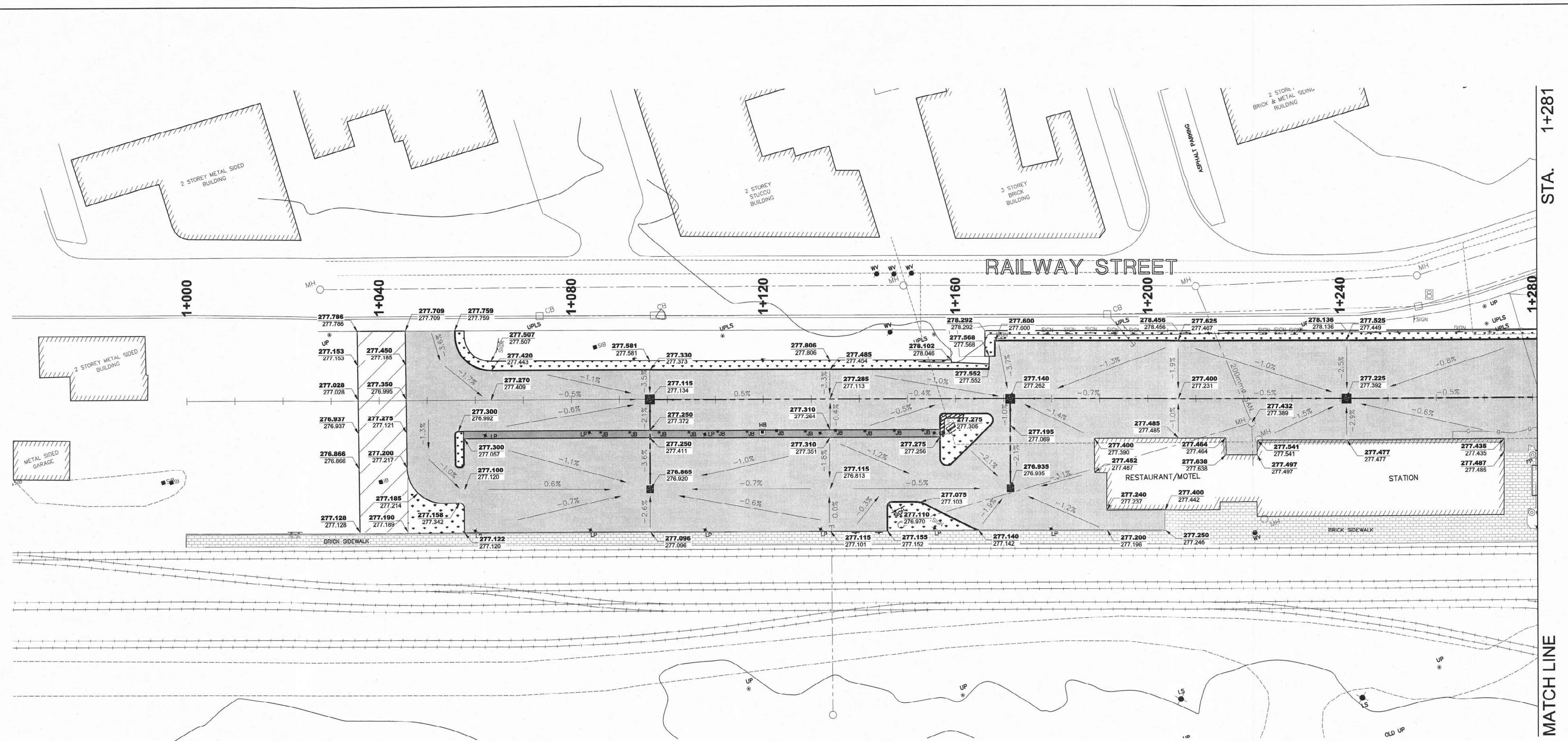
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**COCHRANE STATION PARKING LOT**

PROJECT No. **NWL - 25002304-00**

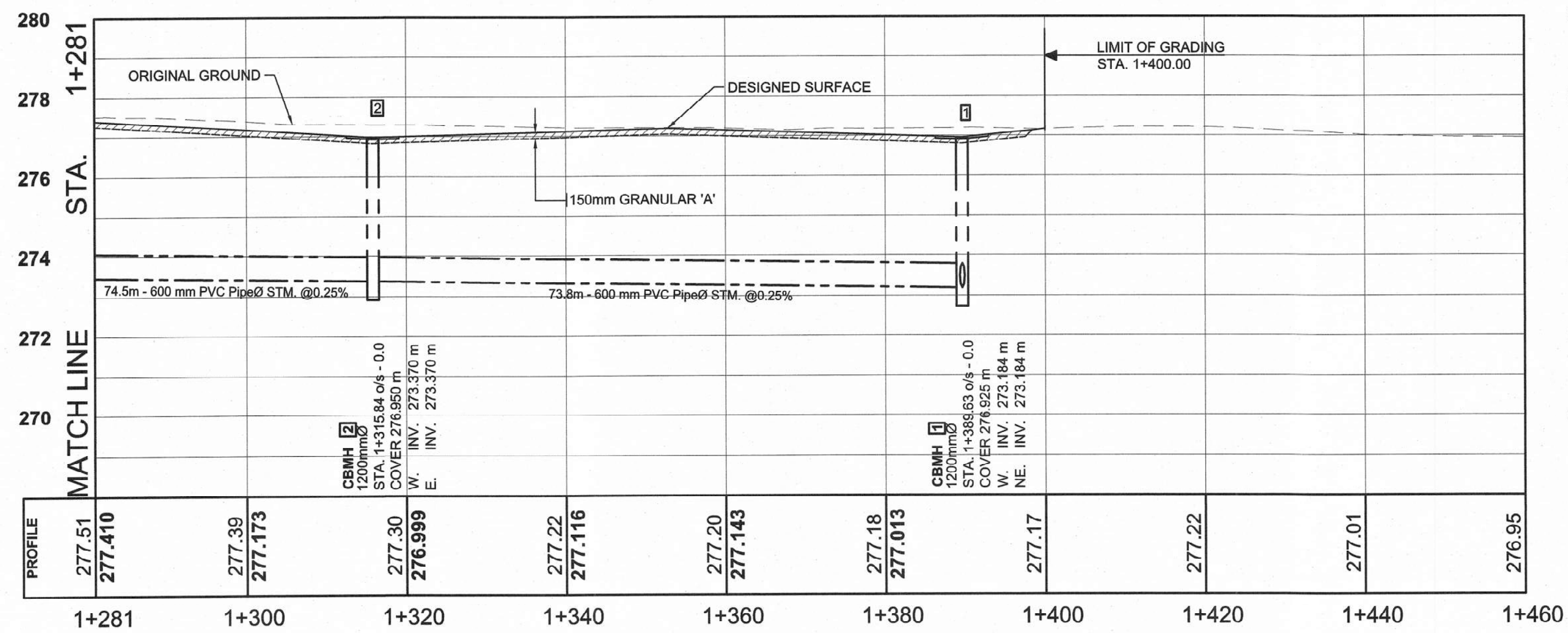
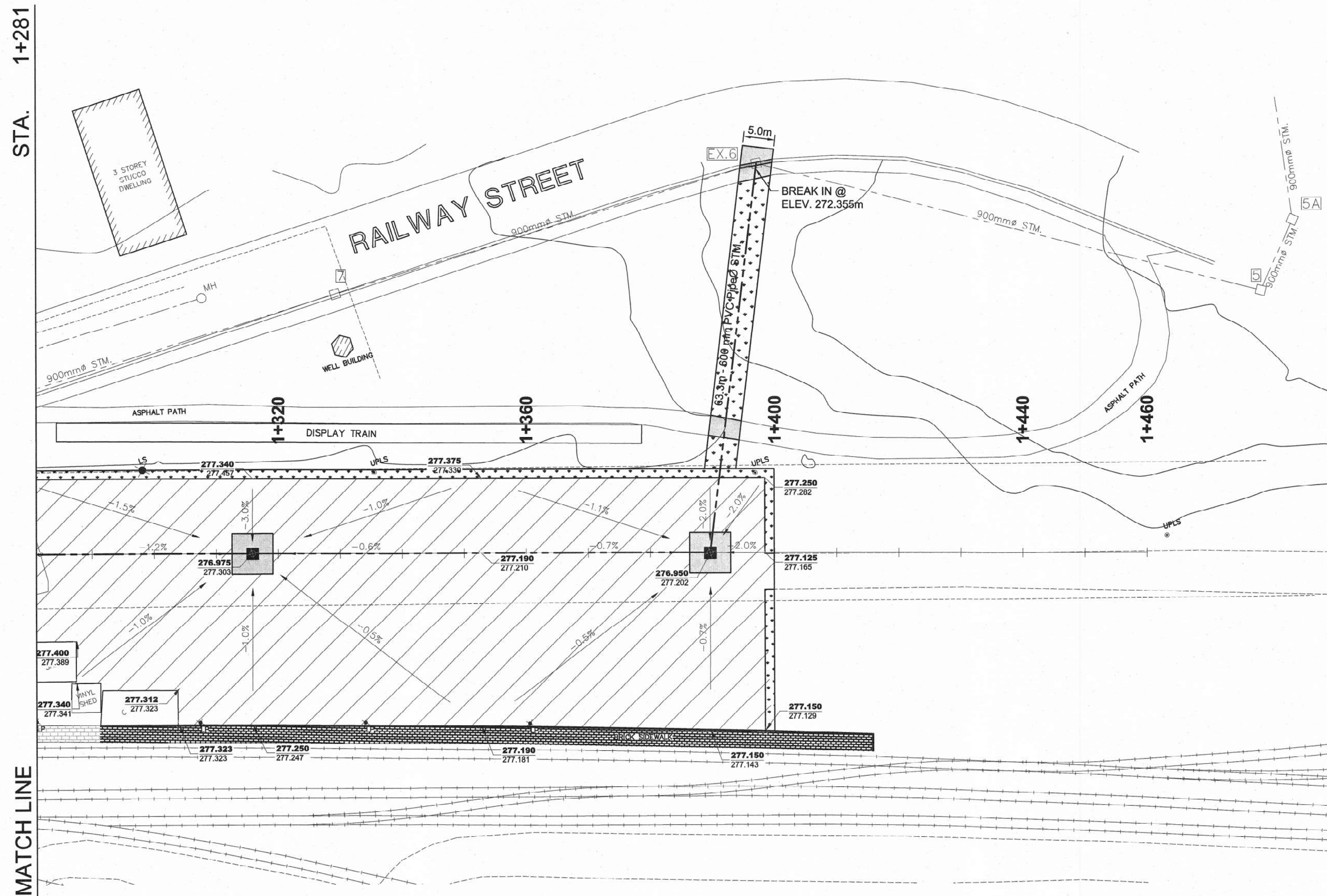
DRAWING TITLE  
**SITE GRADING  
STA. 1+000 TO 1+281**

	DESIGNED	SCALE
	EGL	AS SHOWN
	DRAWN	PLAN No.
EGL	25-1298	
CHECKED	DRAWING No.	
TAP	6	

EXP Services Inc.  
E: 1-705-647-4311 | F: 1-705-647-3111  
310 Whitewood Ave. W.  
New Liskard, ON P0J 1P0  
Canada  
www.exp.com



1/17/2025 3:05:11 PM S:\ENGINEERING\PROJECT FILES\25002304-00 COCHRANE STATION PARKING LOT\PROJ-EXE\DRAWINGS\EXP\DRAWINGS\PLAN\25002304-00\_CV1.DWG



ORIENTATION

PLAN ONLY (APPROXIMATE)

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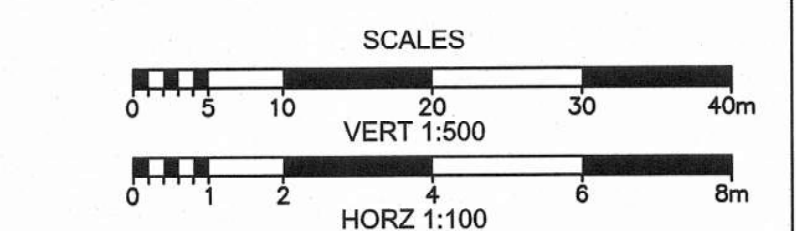
DIMENSIONS NOTES:  
1. ALL DIMENSIONS ARE IN METERS (m) UNLESS NOTED OTHERWISE.

- NOTES:
- NOT WITHSTANDING WHAT IS SHOWN HEREON, THE LOCATION OF ALL UTILITIES ARE TO BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION.
  - SITE SURVEY COMPLETED BY SURVEYORS ON SITE INC. AND PROVIDED TO EXP BY THE ONTC.
  - STRUCTURE GRATES ARE TO BE AS PER OPSD 400.020 TYPE.
  - PROPOSED CURBS ARE TO BE AS PER OPSD 600.110

LEGEND:

- ASPHALT SURFACE
- SEED AND COVER OVER 100mm TOPSOIL
- GRANULAR SURFACE
- CONCRETE
- INTERLOCK PAVERS
- CONCRETE CURB

PROPOSED ELEV.  
EXISTING ELEV.



No.	DATE	REVISION	BY
2	25/11/07	ISSUED FOR TENDER	TAP
1	25/3/27	ISSUED FOR CLIENT REVIEW	EGL

CLIENT: ONTARIO NORTHLAND TRANSPORTATION COMMISSION

PROJECT TITLE: COCHRANE STATION PARKING LOT

PROJECT No.: NWL - 25002304-00

DRAWING TITLE: SITE GRADING STA. 1+281 TO 1+460

	DESIGNED	SCALE
	EGL	AS SHOWN
	DRAWN	PLAN No.
	EGL	25-1298
CHECKED	DRAWING No.	
TAP	7	

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11/2025 3:05:15 PM S:\ENGINEERING\PROJECT FILES\25002304-00\25002304-00\DRAWINGS\DWG\25002304-00-CML.DWG

ORIENTATION

PLAN ONLY (APPROXIMATE)

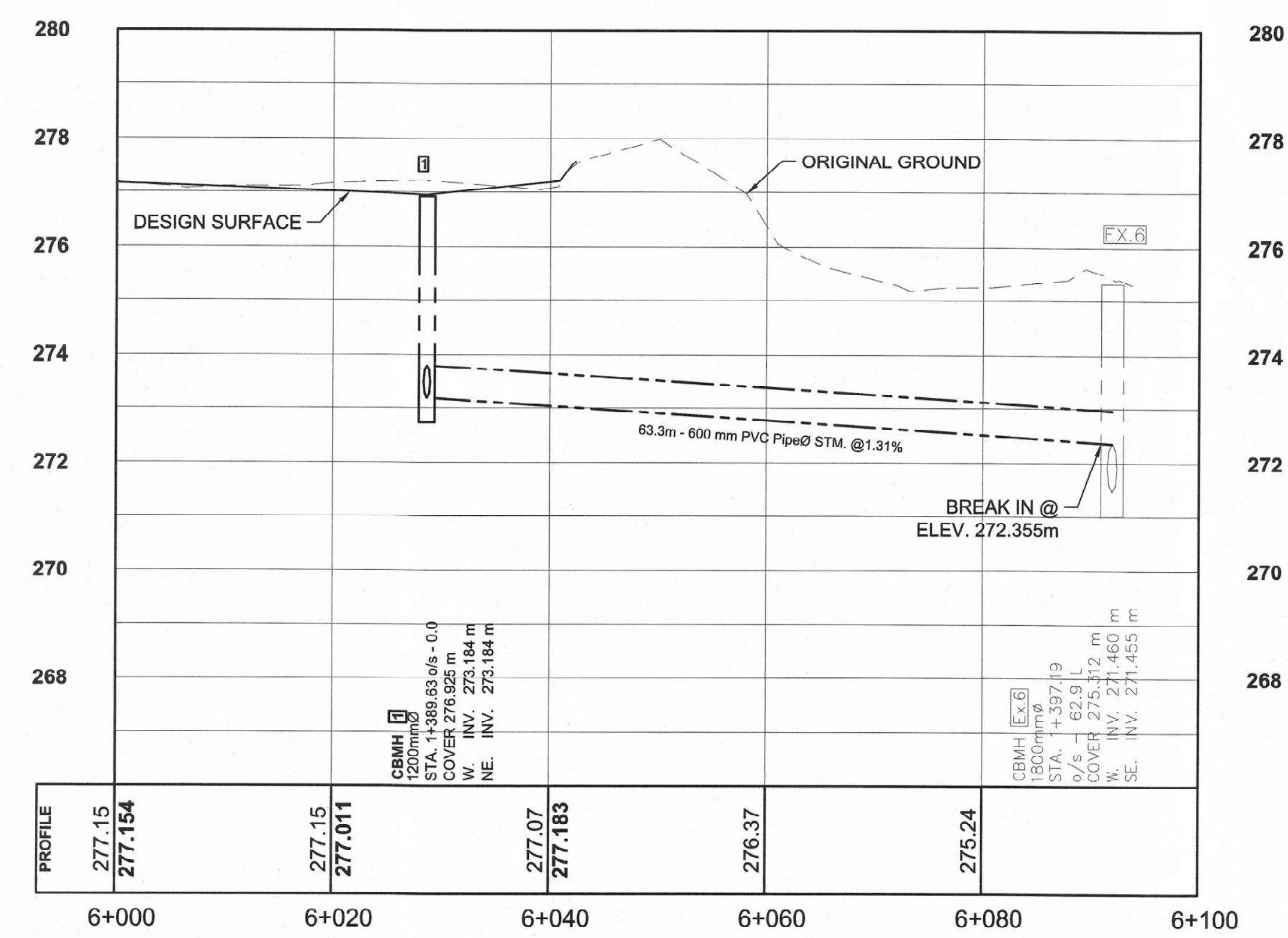
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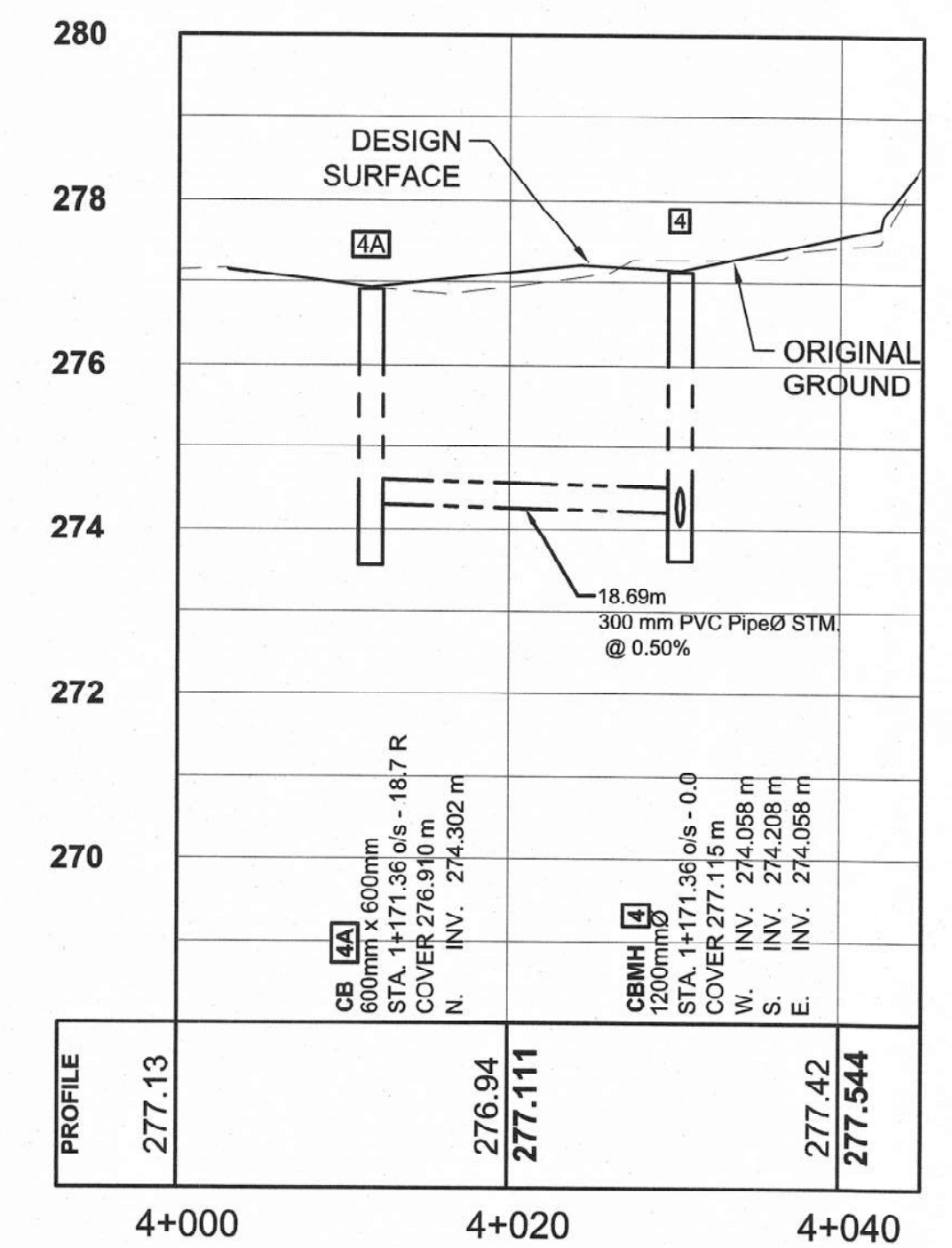
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  - PROPOSED CURBS ARE TO BE AS PER OPSD 600.110

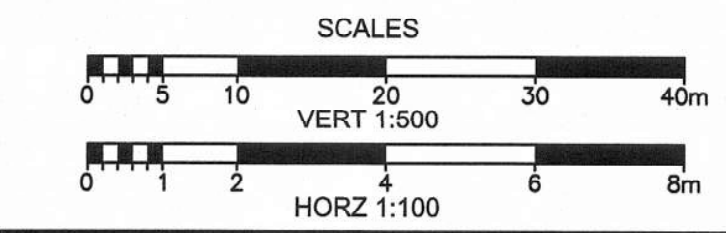
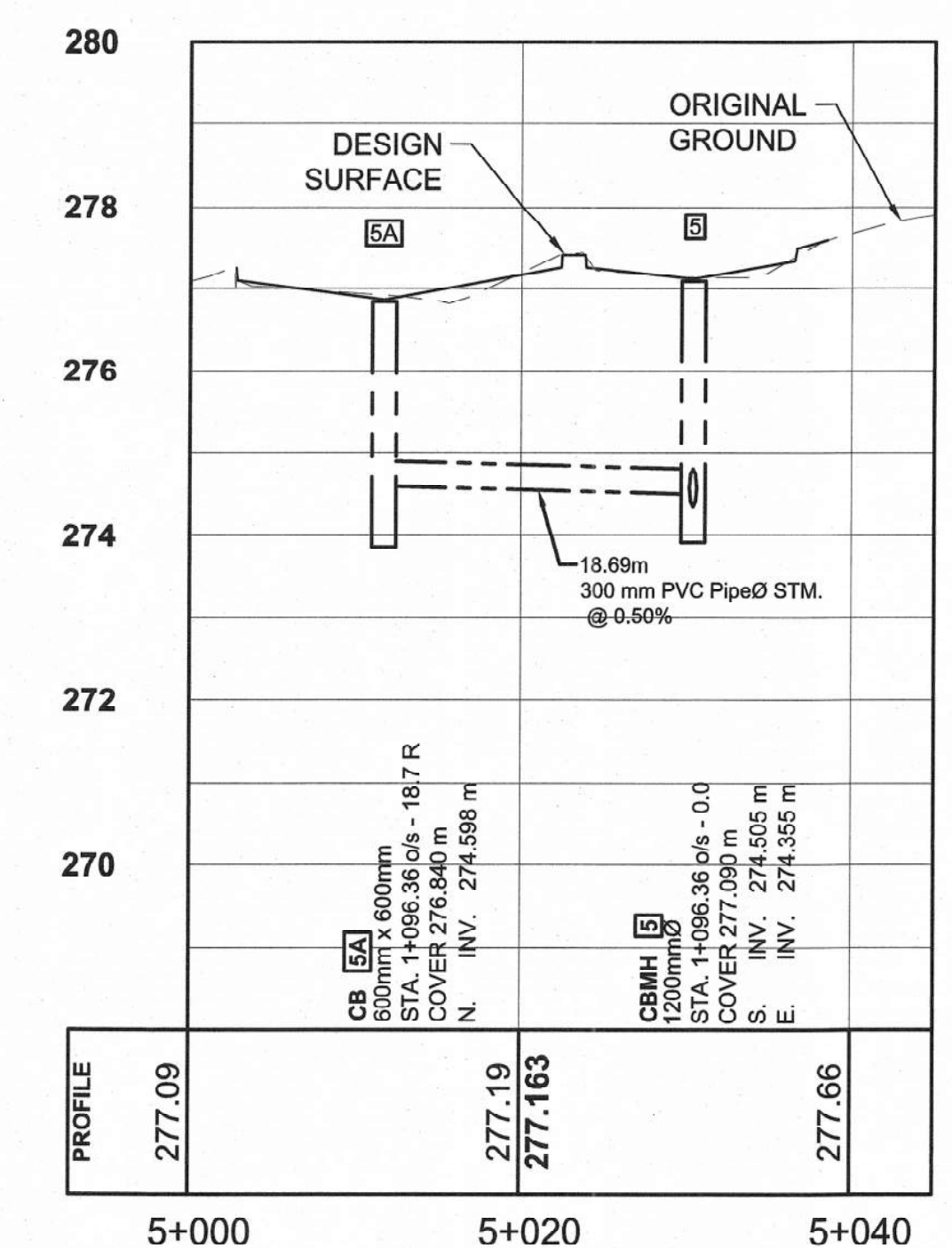
### STORM LATERAL CBMH 1 TO CBMH EX.6



### STORM LATERAL CB 4A TO CBMH 4



### STORM LATERAL CB 5A TO CBMH 5



No.	DATE	REVISION	BY
2	25/11/07	ISSUED FOR TENDER	TAP
1	25/3/27	ISSUED FOR CLIENT REVIEW	EGL

CLIENT  
**ONTARIO NORTHLAND  
TRANSPORTATION COMMISSION**

PROJECT TITLE  
**COCHRANE STATION PARKING LOT**

PROJECT No. **NWL - 25002304-00**


DRAWING TITLE	
<b>STORM LATERALS</b>	

DESIGNED	SCALE
EGL	AS SHOWN
DRAWN	PLAN No.
EGL	25-1298
CHECKED	DRAWING No.
TAP	8

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Canada  
www.exp.com

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ORIENTATION



PLAN ONLY (APPROXIMATE)

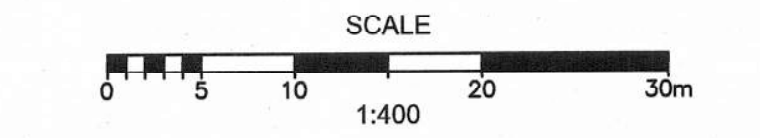
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  - SITE SURVEY COMPLETED BY SURVEYORS ON SITE INC. AND PROVIDED TO EXP BY THE ONTC.
  - STRUCTURE GRATES ARE TO BE AS PER OPSD 400.020 TYPE.
  - PROPOSED CURBS ARE TO BE AS PER OPSD 600.110
  - SIGN TEMPLATE TO BE SUBMITTED TO OWNER FOR APPROVAL PRIOR TO ORDERING.

- LEGEND:
- ASPHALT SURFACE
  - SEED AND COVER OVER 100mm TOPSOIL
  - GRANULAR SURFACE
  - CONCRETE
  - INTERLOCK PAVERS
  - CONCRETE CURB
- PROPOSED ELEV.  
EXISTING ELEV.




No.	DATE	REVISION	BY
2	25/11/07	ISSUED FOR TENDER	TAP
1	25/3/27	ISSUED FOR CLIENT REVIEW	EGL

CLIENT  
**ONTARIO NORTHLAND TRANSPORTATION COMMISSION**

PROJECT TITLE  
**COCHRANE STATION PARKING LOT**

PROJECT No. **NWL - 25002304-00**

DRAWING TITLE  
**LINE PAINTING**

	DESIGNED	SCALE
	EGL	AS SHOWN
	DRAWN	PLAN No.
EGL	25-1298	
CHECKED	DRAWING No.	
TAP	9	


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PAINTING LEGEND

1	SOLID WHITE, 10cm
2	DISABILITY PARKING SYMBOL

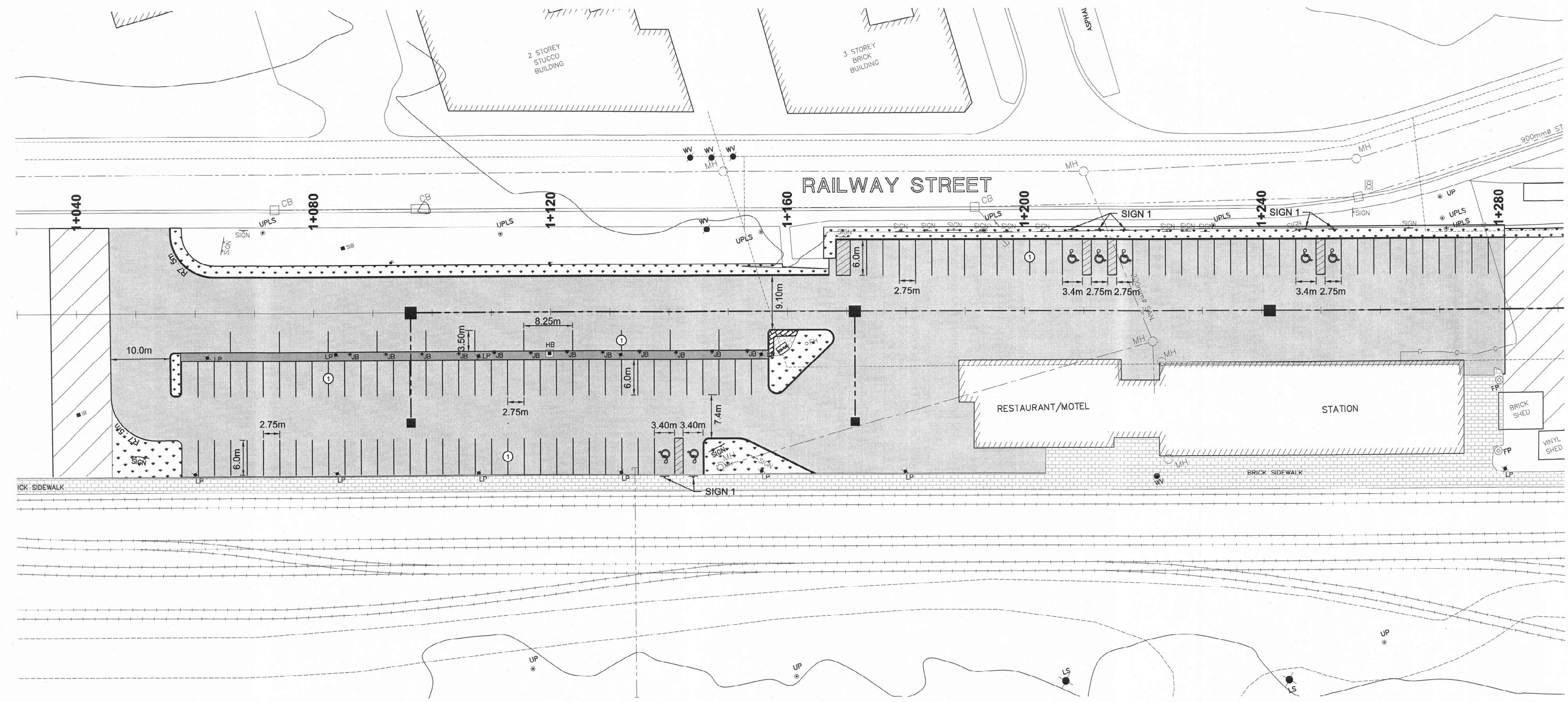
SIGN LEGEND



BLACK LETTER "P", LEGEND, BORDER AND STRIPPING  
2cm RED REF. ANNULAR BAND  
WHITE REF. BACKGROUND  
1.0cm RED REF. INTERDICTIONARY STROKE

BLUE REF. BACKGROUND AND OUTLINE  
WHITE REF. SYMBOL AND BORDER

SIGN 1



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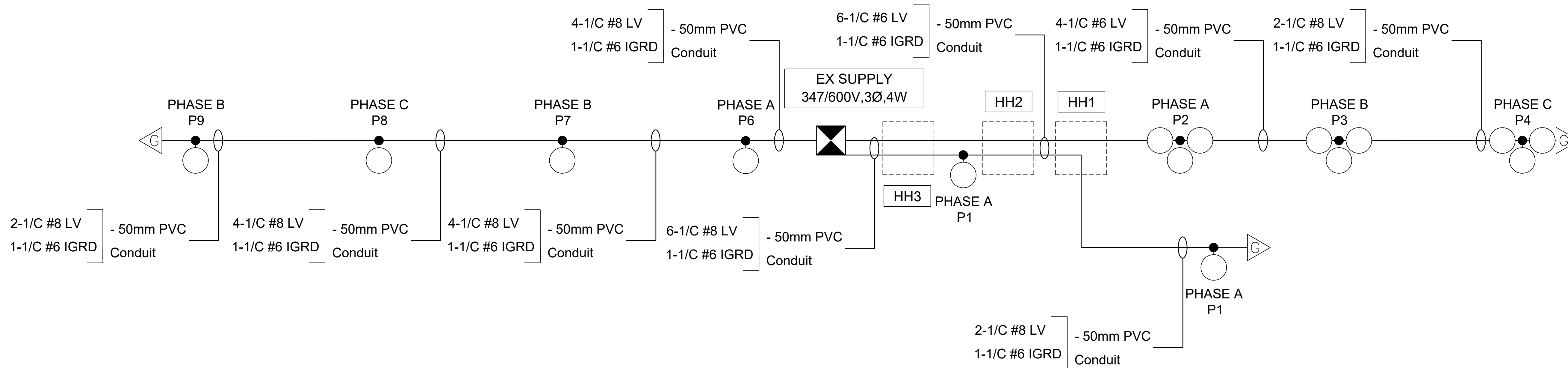




**GENERAL NOTE(S):**

- CIRCUITRY FOR STREETLIGHTING CONSTITUTES A MULTI-WIRE BRANCH CIRCUIT. USE A 15A, 3-POLE BREAKER AT THE EXISTING 347/600V DISTRIBUTION PANEL TO ENSURE SIMULTANEOUS DISCONNECTION OF ALL UNGROUNDED CONDUCTORS.
- COLOR CODE PHASE CONDUCTORS AT ALL TERMINATION AND SPLICE POINTS: PHASE A (RED), PHASE B (BLACK), PHASE C (BLUE).
- CONTRACTOR SHALL DISTRIBUTE FIXTURE LOADS ACROSS PHASE A, B, AND C AS INDICATED ON THE WIRING DIAGRAM TO ENSURE A BALANCED SYSTEM LOAD.
- CONTRACTOR TO VERIFY THE EXACT LOCATION OF THE EXISTING 347/600V DISTRIBUTION PANEL AND AVAILABLE CIRCUIT SPACE PRIOR TO COMMENCING WORK.
- PROVIDE PERMANENT WEATHERPROOF LAMINATE LABELS INSIDE EACH POLE HANDHOLE AND AT THE DISTRIBUTION PANEL INDICATING THE CIRCUIT NUMBER AND PHASE.
- ALL BRANCH CIRCUIT CONDUCTORS TO BE #8 AWG STRANDED COPPER WITH RW90 (OR XHHW-2) INSULATION, RATED FOR 600V MINIMUM.
- PROVIDE 1-#6 AWG GREEN INSULATED COPPER BONDING CONDUCTOR (IGRD) IN ALL CONDUITS. ALL POLE STRUCTURES AND THE DISTRIBUTION PANEL MUST BE BONDED IN ACCORDANCE WITH OESC SECTION 10.

**STREETLIGHTING WIRING DIAGRAM**



ORIENTATION

PLAN ONLY (APPROXIMATE)

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DIMENSIONS NOTES:

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- NOTES:
- NOT WITHSTANDING WHAT IS SHOWN HEREON, THE LOCATION OF ALL UTILITIES ARE TO BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION.

**LEGEND:**

- PROPOSED 30ft SITE LIGHTING POLE, 3 LED FIXTURE AT 90 DEGREES TO EACH OTHER WITH QUICK MOUNT (STANDARD LENGTH), BLACK FINISH, COOPER LIGHTING SOLUTIONS #GALLEON SERIES (CAT# GLEON-SA2D-740-9-5WQ)
- PROPOSED 30ft SITE LIGHTING POLE, LED FIXTURE WITH QUICK MOUNT (STANDARD LENGTH), BLACK FINISH, COOPER LIGHTING SOLUTIONS #GALLEON SERIES (CAT# GLEON-SA2D-740-9-T3)
- ELECTRICAL GROUND RODS
- PROPOSED #8 COPPER STREETLIGHT WIRING INSTALLED IN 50mm CONDUIT
- 460mm DIA. ELECTRICAL HANDHOLE (OPSD Z112.020)

SCALE

VERT 1:500

No.	DATE (YY/MM/DD)	REVISION	BY
1	26/04/08	ISSUED FOR TENDER	GK

CLIENT: ONTARIO NORTHLAND TRANSPORTATION COMMISSION

PROJECT TITLE: COCHRANE STATION PARKING LOT

PROJECT No. NWL - 25002304-00

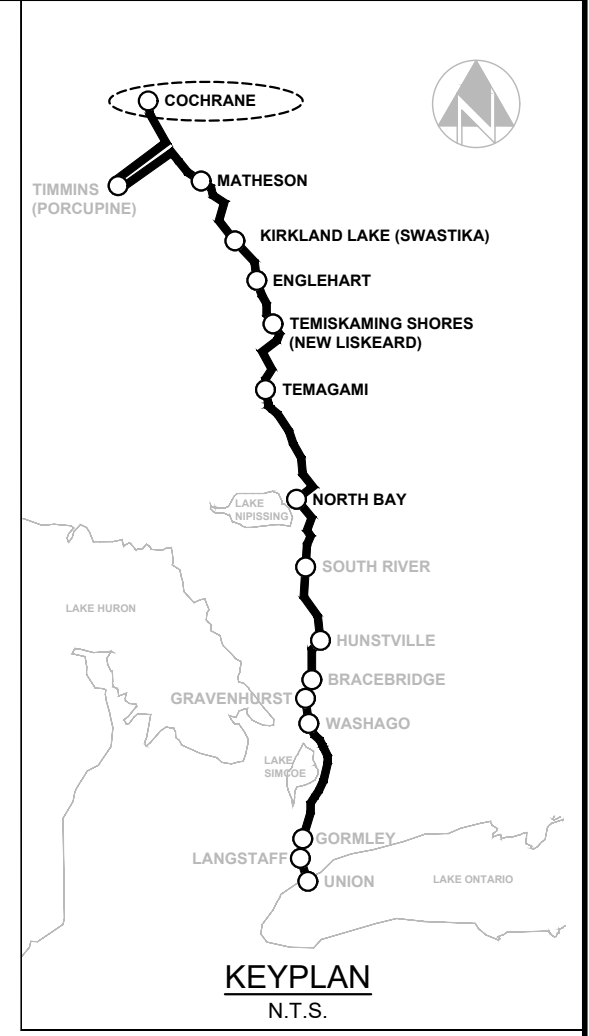
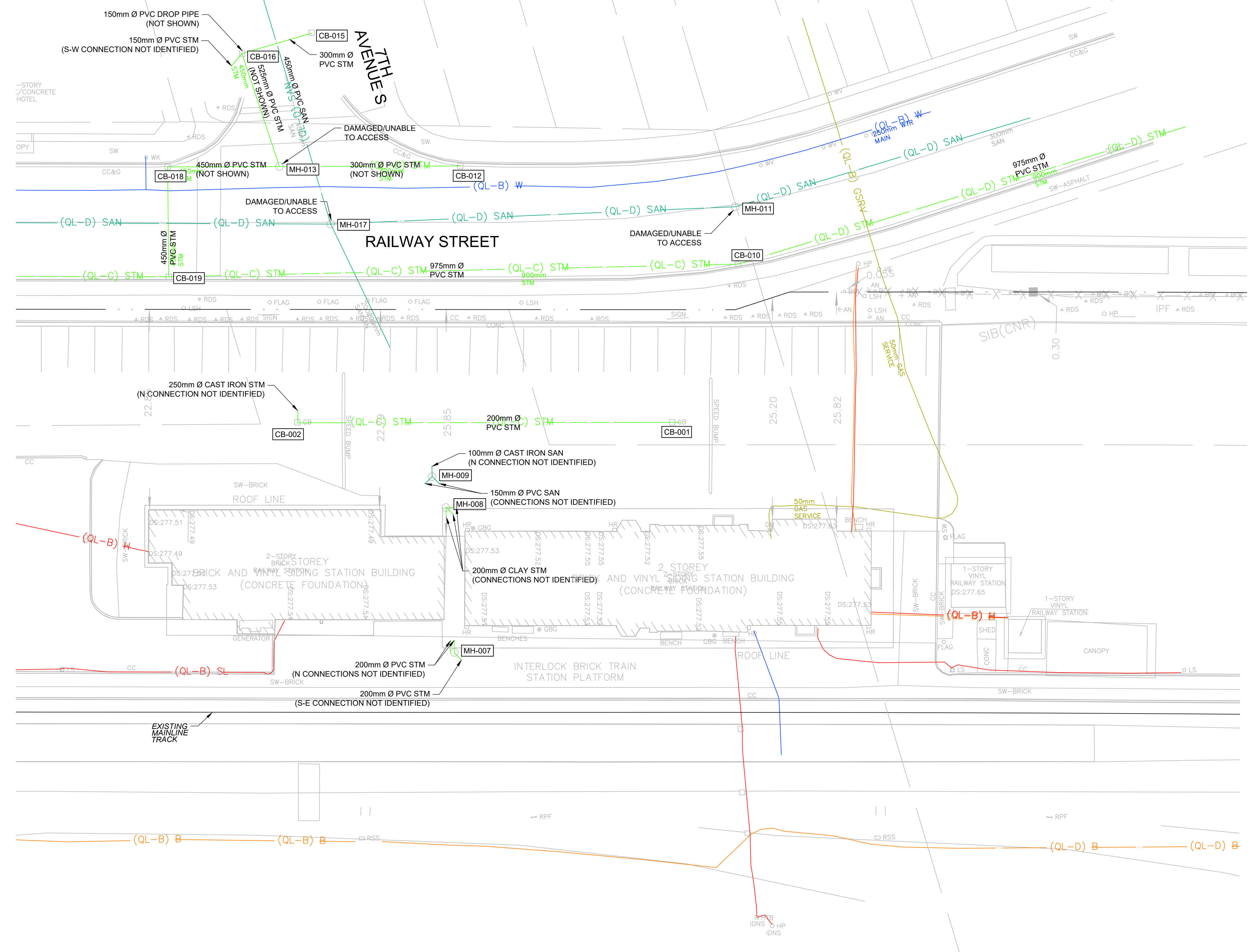
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	DESIGNED	SCALE
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	DRAWN	PLAN No.
EK	25-1298	
CHECKED	DRAWING No.	
GK	E-103	

EXP Services Inc.

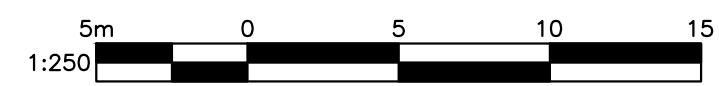
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 310 Whitehead Ave. W.  
 New Liskeard, ON P0J 1P0  
 Canada  
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FILE NAME: C:\Users\jvanderdorp\DC\Projects\GANNETT FLEMING INC\073613-ONTC-NorlanderPassengerRail\Project Files\Design\Civil\Wkg\12\_203\_UTL\_Ext.dwg  
 PROJECT NUMBER: 073613  
 ONTARIO NORTHLAND  
 CREATED: 2024-03-15  
 MODIFIED: 2024-07-30 11:47



**LEGEND**

(QL-B) COMB	COMBINATION SEWER
(QL-B) STM	STORM SEWER
(QL-B) SAN	SANITARY SEWER
(QL-B) W	WATER MAIN
(QL-B) WSRV	WATER SERVICE
(QL-B) W ABND	WATER MAIN (ABANDONED)
(QL-B) G	GAS MAIN
(QL-B) GSRV	GAS SERVICE
(QL-B) G ABND	GAS MAIN (ABANDONED)
(QL-B) HON	HYDRO ONE
(QL-B) H	HYDRO
(QL-B) SL	STREET LIGHTING
(QL-B) TC	TRAFFIC CONTROL
(QL-B) TTC	TORONTO TRANSIT COMMISSION
(QL-B) MTO	MINISTRY OF TRANSPORTATION
(QL-B) AP	APTUM TECH
(QL-B) B-FO	BELL CANADA
(QL-B) B-F	BELL CANADA FIBRE OPTIC
(QL-B) BF	BEANFIELD
(QL-B) CO	COGECO
(QL-B) GT	GROUP TELECOM
(QL-B) GO	GO COMMUNICATIONS
(QL-B) METX	METROLINX
(QL-B) AS	ALLSTREAM
(QL-B) R	ROGERS
(QL-B) R-FO	ROGERS FIBRE OPTIC
(QL-B) T	TELUS
(QL-B) TEL UNKN	UNKNOWN TELECOM
(QL-B) VT	VIDEOTRON
(QL-B) ZG	ZAYO GROUP
(QL-B) 360	360 NETWORK
(QL-B) CN	CN RAIL COMMUNICATIONS
(QL-B) CP	CP RAIL COMMUNICATIONS
(QL-B) TCPL	TRANS-CANADIAN PIPELINE
(QL-B) SCPL	SUN-CANADIAN PIPELINE
(QL-B) STEAM	STEAM PIPE



ISSUED FOR CONSTRUCTION

NO.	DATE	MODIFICATION	DRAWN	CHKD.	APPRVD.	NO.	DATE	MODIFICATION	DRAWN	CHKD.	APPRVD.
REVISIONS											



DESIGNED	N/A
DRAWN	BD
CHECKED	TJD
APPROVED	KC



**NORTHEAST PASSENGER RAIL SERVICE**  
 ONTARIO, CANADA  
**REINSTATED STATIONS (PACKAGE 1 & 2)**  
 COCHRANE STATION  
 CIVIL  
 EXISTING UTILITY COMPOSITE PLAN

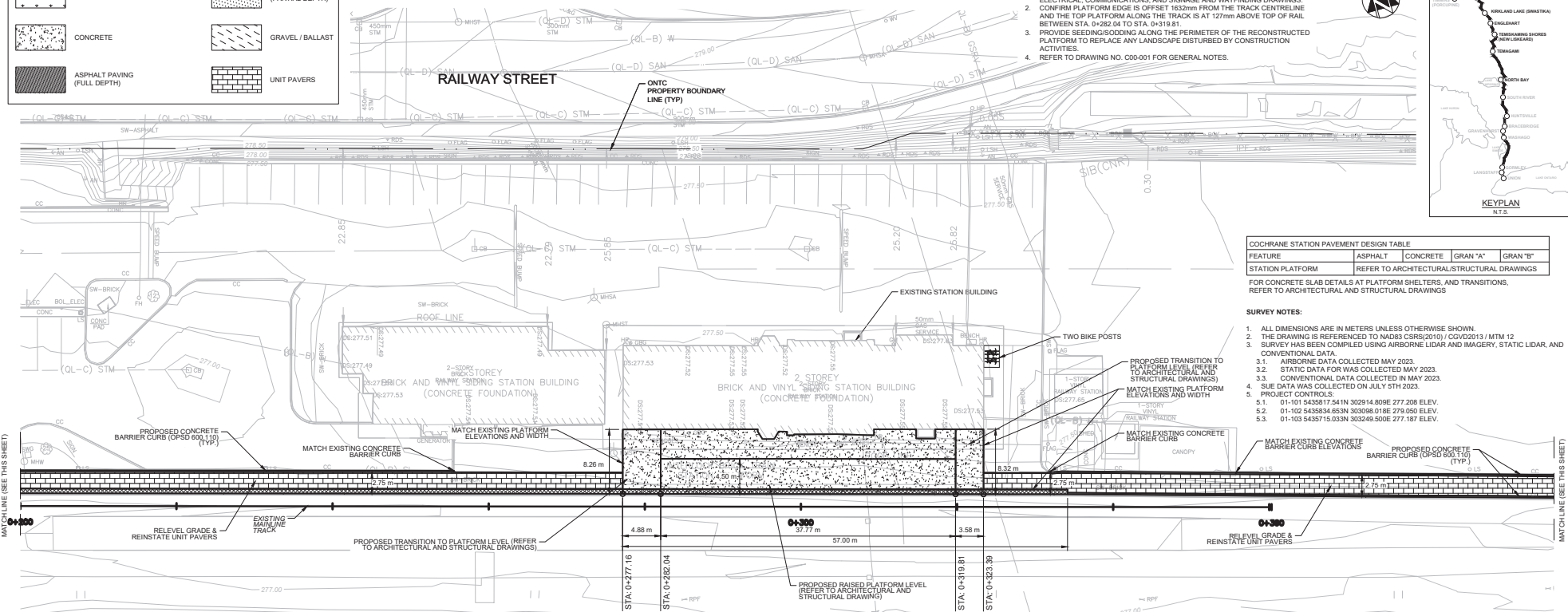
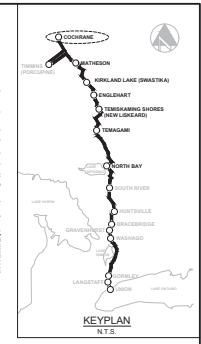
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SHEET	OF	43 173

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 DRAWN: 2025-07-24 20:17  
 MODIFIED: 2025-07-24 20:17

**LEGEND**

	SEEDING/SODDING		ASPHALT PAVING (PARTIAL DEPTH)
	CONCRETE		GRAVEL/BALLAST
	ASPHALT PAVING (FULL DEPTH)		UNIT PAVERS

- NOTES:**
- DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, ELECTRICAL, COMMUNICATIONS, AND SIGNAGE AND WAYFINDING DRAWINGS.
  - CONFIRM PLATFORM EDGE IS OFFSET 1630mm FROM THE TRACK CENTRELINE AND THE TOP PLATFORM ALONG THE TRACK IS AT 127mm ABOVE TOP OF RAIL BETWEEN STA. 0+282.04 TO STA. 0+319.81.
  - PROVIDE SEEDING/SODDING ALONG THE PERIMETER OF THE RECONSTRUCTED PLATFORM TO REPLACE ANY LANDSCAPE DISTURBED BY CONSTRUCTION ACTIVITIES.
  - REFER TO DRAWING NO. C00-001 FOR GENERAL NOTES.



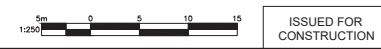
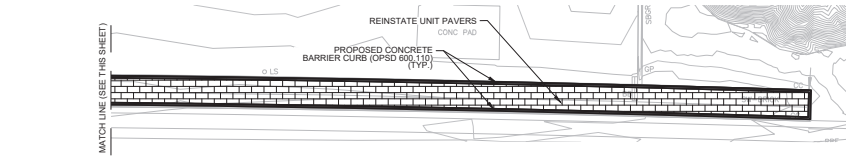
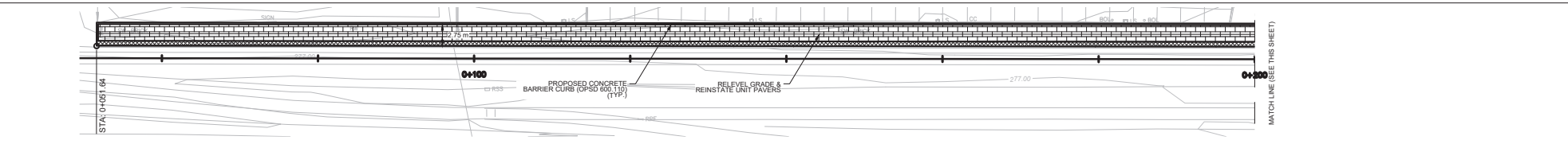
**COCHRANE STATION PAVEMENT DESIGN TABLE**

FEATURE	ASPHALT	CONCRETE	GRAN "A"	GRAN "B"
STATION PLATFORM				

REFER TO ARCHITECTURAL/STRUCTURAL DRAWINGS

FOR CONCRETE SLAB DETAILS AT PLATFORM SHELTERS, AND TRANSITIONS, REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS

- SURVEY NOTES:**
- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
  - THE DRAWING IS REFERENCED TO NAD83 CSRS(2010) / CGVD2013 / MTM 12
  - SURVEY HAS BEEN COMPILED USING AIRBORNE LIDAR AND IMAGERY, STATIC LIDAR, AND CONVENTIONAL DATA.
    - AIRBORNE DATA COLLECTED MAY 2023.
    - STATIC DATA FOR WAS COLLECTED MAY 2023.
    - CONVENTIONAL DATA COLLECTED IN MAY 2023.
  - SUE DATA WAS COLLECTED ON JULY 5TH 2023.
  - PROJECT CONTROLS.
    - 01-101 5435817.541N 302914.809E 277.208 ELEV.
    - 01-102 5435834.653N 303098.018E 279.050 ELEV.
    - 01-103 5435715.033N 303249.500E 277.167 ELEV.



ISSUED FOR CONSTRUCTION

DESIGNED				BD		NORTHEAST PASSENGER RAIL SERVICE		CONTRACT NUMBER 13258																																					
DRAWN				BD		ONTARIO, CANADA		SCALE 1:250 DATE 04/25/2025																																					
CHECKED				TJD		REINSTATED STATIONS (PACKAGE 1 & 2)		DRAWING NUMBER CSK12-201																																					
APPROVED				KC		COCHRANE STATION CIVIL GENERAL SITE PLAN		SHEET OF																																					
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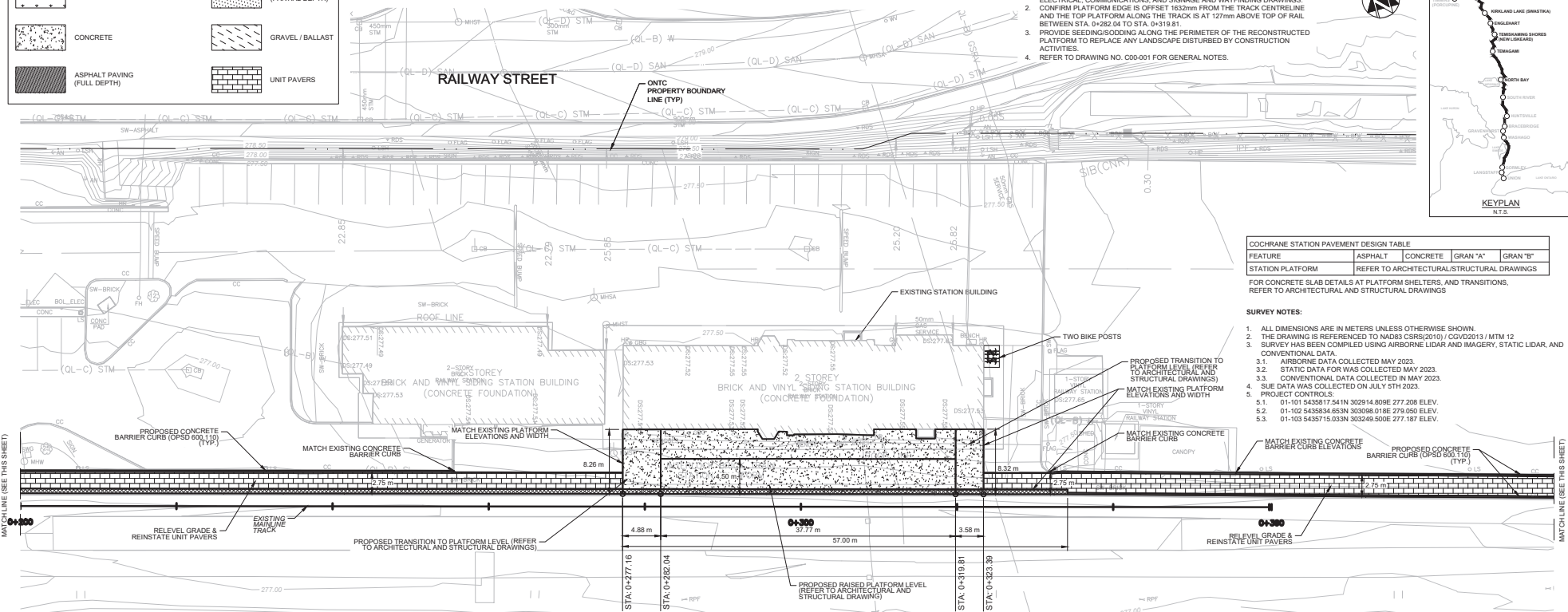
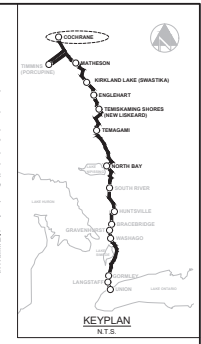




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 MODIFIED: 2025-07-24 20:17

LEGEND	
	SEEDING/SODDING
	CONCRETE
	ASPHALT PAVING (FULL DEPTH)
	ASPHALT PAVING (PARTIAL DEPTH)
	GRAVEL / BALLAST
	UNIT PAVERS

- NOTES:**
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  - PROVIDE SEEDING/SODDING ALONG THE PERIMETER OF THE RECONSTRUCTED PLATFORM TO REPLACE ANY LANDSCAPE DISTURBED BY CONSTRUCTION ACTIVITIES.
  - REFER TO DRAWING NO. C00-001 FOR GENERAL NOTES.

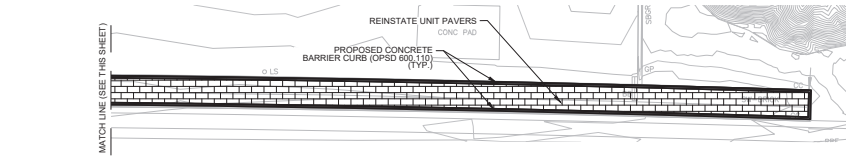
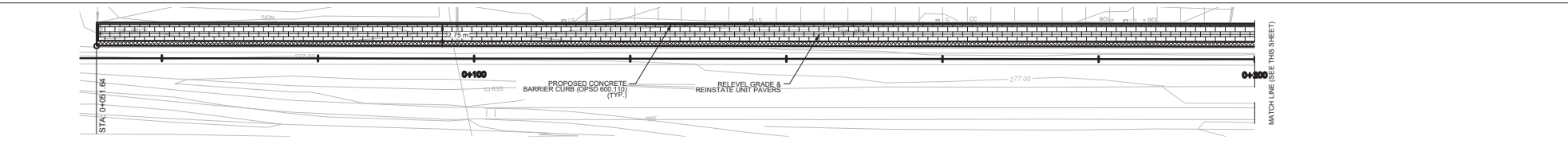


FEATURE	ASPHALT	CONCRETE	GRAN "A"	GRAN "B"
STATION PLATFORM				

REFER TO ARCHITECTURAL/STRUCTURAL DRAWINGS

FOR CONCRETE SLAB DETAILS AT PLATFORM SHELTERS, AND TRANSITIONS, REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS

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- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
  - THE DRAWING IS REFERENCED TO NAD83 CSRS(2010) / CGVD2013 / MTM 12
  - SURVEY HAS BEEN COMPILED USING AIRBORNE LIDAR AND IMAGERY, STATIC LIDAR, AND CONVENTIONAL DATA.
    - AIRBORNE DATA COLLECTED MAY 2023.
    - STATIC DATA FOR WAS COLLECTED MAY 2023.
    - CONVENTIONAL DATA COLLECTED IN MAY 2023.
  - SUE DATA WAS COLLECTED ON JULY 5TH 2023.
  - PROJECT CONTROLS.
    - 01-101 5435817.541N 302914.809E 277.208 ELEV.
    - 01-102 5435834.653N 303098.018E 279.050 ELEV.
    - 01-103 5435715.033N 303249.500E 277.167 ELEV.



ISSUED FOR CONSTRUCTION

	DESIGNED	BD		NORTHEAST PASSENGER RAIL SERVICE ONTARIO, CANADA REINSTATED STATIONS (PACKAGE 1 & 2)	CONTRACT NUMBER	13258	
	DRAWN	BD			SCALE	DATE	04/25/2025
	CHECKED	TJD			COCHRANE STATION CIVIL GENERAL SITE PLAN	DRAWING NUMBER	CSK12-201
	APPROVED	KC				SHEET	OF

NO.	DATE	MODIFICATION	DRAWN	CHKD.	APPRVD.	NO.	DATE	MODIFICATION	DRAWN	CHKD.	APPRVD.
REVISIONS											
REVISIONS											



