

Land Development
Phase II – Culvert Reconstruction

PROJECT NO. 324-021



Request for Tender

Sealed proposals for Phase II of the Land Development Project, culvert reconstruction. Tender form documents along with specifications and picture of location can be found on the Port of Johnstown's website. www.portofjohnstown.com.

Land Development: Phase II – Culvert Reconstruction
Project # 324-021
Port of Johnstown

Will be received until: June 16th, 2025 at 12:00 pm

Must be delivered to:

Robert Dalley
Senior Advisor,
Port of Johnstown
3035 County Road 2
Johnstown, Ontario
K0E 1T1

And clearly marked on outside of envelope:

Tender : Land Development: Phase II – Culvert Reconstruction
Project #324-021
Port of Johnstown

NOTE: Electronic submissions will not be accepted.

Work Includes:

The Port of Johnstown is seeking tender bids for reconstruction of approximately 94m of 600mm dia. culvert.

A mandatory site meeting and job showing will be held upstairs in Admin. Building B at the Port of Johnstown location on Monday, June 2nd, 2025 at 10 AM. Drawings and Specifications will be available on the Port of Johnstown's web site as of Thursday, May 22nd, 2025. All parties interested in attending the mandatory site meeting are asked to e-mail Stephanie McVitty at smcvitty@portofjohnstown.com or call 613-925-4228 indicating their intent to attend.

Questions will be received until end of day June 9th, 2025, and shall be sent in writing to the Engineer. The Port of Johnstown reserves the right to distribute any and all questions (anonymously) and answers pertaining to this tender by addenda. The final addendum, if applicable, will be issued on June 11th, 2025.

Engineer: Kevin MacCulloch, P.Eng., EVB Engineering
800 Second St. West, Cornwall, ON K6J 1H6
Telephone : 613-935-3775 x270
Email: kevin.macculloch@evbengineering.com

Public tender opening will be held upstairs in the Administration B building at the Port of Johnstown on June 16th, 2025 at 12:05 pm.

Lowest or any tender not necessarily accepted.

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SCHEDULE OF REFERENCE DOCUMENTS AND DRAWINGS
2822 COUNTY RD. 2 – OUTLET RECONSTRUCTION

C1.1	NEW STORM OUTLET REMOVALS AND SITE PLAN
C3.1	DETAILS & O.P.S.D.'S

SECTION 1

INFORMATION FOR TENDERS

SECTION 1 - INFORMATION FOR TENDERERS

1.1 Description of Works

The following is a general but not necessarily complete description of the works to be constructed under this contract:

- Remove existing and install new culvert between County Rd.2 and St. Lawrence River at 2801 County Rd. 2.
- Install new concrete headwall.

1.2 Site Office (Not Applicable)

A site office as specified in the Special Provisions, items 54 and 105 shall be provided by the Contractor.

1.3 Liquidated Damages

Liquidated damages in the amount of any direct costs as may be established by the Owner plus \$1000 per day for each day that the work is not completed within the schedule as defined herein will be assessed against the contractor.

1.4 Delivery of Tenders

Tenders, sealed in an envelope clearly marked with the project or contract title (including the name of the Owner or area) and the contract number, if any, will be received by the Owner at the location stated in the tender advertisement for receipt of tenders on the advertised closing date and time for receipt of tenders. Before being placed in the tender box by the tenderer, the tender envelope will be marked by the Owner with the time and date the envelope is received. The use of the mails or courier for delivery of a tender will be at the sole risk of the tenderer and no consideration will be given to tenders deposited after the advertised deadline. Digital submissions (email, FTP, etc.) or facsimile submissions will not be accepted. Delivery to any employee of the Owner concerned with the reception or delivery of mail will not be considered as proper delivery unless the envelope is subsequently deposited in the tender box before the said closing time.

On the closing day, soon after the closing time, the envelopes will be opened and the tenders will be read and recorded publicly by a representative from the Owner and their agent in the location stated in the tender advertisement. Tenders will then be checked and analyzed and a report making recommendation to the Owner will be completed.

1.5 Disqualification of Tenders

Under no circumstances will tenders be considered which:

- a) Late bids by any amount of time.

- b) Bids completed in pencil.
- c) Bid surety not submitted with the bid when the bid request or any addenda indicated that such surety is required.
- d) Execution of agreement to bond:
 - a. Bond company corporate seal or equivalent proof of authority to bind company or signature missing.
 - b. Surety company not licensed to do business in Ontario.
- e) Execution of bid bond:
 - a. Corporate seal or equivalent proof of authority to bind company or signature of the bidder or both missing.
 - b. Corporate seal or equivalent proof of authority to bind company or signature of bonding company missing.
- f) Other bid security: Cheque which has not been certified.
- g) Bidder not attending mandatory site meeting.
- h) Pricing or signature pages missing.
- i) Insufficient financial security (i.e. no deposit or bid bond or insufficient deposit).
- j) Bid received on documents other than those provided in request.
- k) Execution of bid documents.
- l) Part bids (all items not bid)
- m) Pages requiring completion of information by vendor are missing.
- n) Bid documents which suggest that the bidder has made a major mistake in calculations or bid.

1.6 Withdrawal of Qualifying of Tenders

A tender who has already submitted a tender may submit a further tender at any time up to the official closing time. The last tender received shall supersede and invalidate all tenders previously submitted by that tenderer for this contract.

A tender may withdraw or qualify their tender at any time up to the official closing time by submitting a letter bearing their signature and seal as in their tender to be delivered to the Contract Administrator. The submission must be deposited in the tender box, marked with a time and date

of receipt before the stated tender closing. The tenderer shall show their name, the name of the project, and the contract number(s) on their submission.

1.7 Informal of Unbalanced Tenders

All entries in the Form of Tender shall be made in ink or electronically. Entries or changes made in pencil shall be invalid or informal.

Tenders which are incomplete, conditional, illegible, or obscure, or that contain additions not called for, reservations, erasures, alterations (unless properly and clearly made and initialed by the tenderer's signing officer) or irregularities of any kind, may be rejected as informal.

Tenders that contain prices which appear to be so unbalanced as likely to affect adversely the interests of the Owner may be rejected.

Wherever in a tender the amount tendered for an item does not agree with the extension of the estimated quantity and the tendered unit price, the unit price shall govern, and the amount and the Total Tender Price shall be corrected accordingly, unless otherwise decided by the Owner.

A discrepancy in addition or subtraction in a tender shall be corrected by the Owner by adding or subtracting the items correctly and correcting the Total Tender Price accordingly, unless otherwise decided by the Owner. Where an error has been made in transferring an amount from one part of the Form of Tender to another, the amount shown before transfer shall, subject to any corrections as provided for above, be taken to be correct and the amount shown after transfer and the total Tender Price shall be corrected accordingly.

If a tenderer has omitted to enter a price for an item of work set out in the Form of Tender, they shall, unless they have specifically stated otherwise in their tender, be deemed to have allowed elsewhere in the Form of Tender for the cost of carrying out the said item of work and, unless otherwise agreed to by the Owner, no increase shall be made in the total Tender Price on account of such omission.

The Owner reserves the right to waive formalities at its discretion.

Tenderers who have submitted tenders that have been rejected by the Owner because of informalities will normally be notified of the reasons for the rejection within ten (10) days after the closing date for tenders.

1.8 Examination of Site

Each tenderer should visit the site of the work before submitting their tender and should satisfy themselves by personal examination as to the total conditions to be met with during the construction and conduct of the work. They shall make their own estimate of the facilities and difficulties to be encountered including the nature of the subsurface materials and conditions. They are not to claim at any time after submission of their tender that there was any misunderstanding of the terms and conditions of the Contract relating to site conditions.

The Owner has made no arrangements with private owners for site investigations to be carried out by prospective tenderers. If any person proposes to carry out any investigation on any

property relative to the proposed works, they shall, before entering the said property, and any other property for the purpose of obtaining access to the said property, and before commencing the said investigation, contact each owner and occupant of the said properties and advise them of the nature and extent of the proposed investigation and obtain an agreement in writing thereto of all such owners and occupants. The person (or firm) who was responsible for carrying out such an investigation or for making use of any access as aforesaid shall reinstate promptly all property which has been disturbed by such investigation or by use of such access and shall be responsible for all damage and claims resulting therefrom in accordance with the said agreement of such owners and occupants.

With respect to any matter referred to in the foregoing paragraph, no person referred to therein is authorized to act as an agent of or to make any representation on behalf of the Owner and the Owner shall not be responsible for any disturbance to or reinstatement of any property or for any damage or claims referred to therein.

1.9 Tender

Each tender shall be in accordance with the General Conditions and shall include a completed Form of Tender, Statements A to C inclusive, an Agreement to Bond, all as bound herein and a tender deposit as required herein, together with any further forms or sheets which the tenderer is instructed elsewhere herein, or in any addendum hereto, to submit with their tender. The tenderer may retain the rest of the tender documents issued to them.

The tenderer shall give the total tender price both in words and in figures and, except as is otherwise specifically permitted in the Form of Tender, shall fill in all blank spaces for unit prices, item prices, lump sums, and other information in the Form of Tender. All prices tendered and all amounts to be paid will be in Canadian Dollars.

1.10 Omissions, Discrepancies, and Interpretations

Should a Tenderer find emissions from or discrepancies in any of the tender documents or should the Tenderer be in doubt as to the meaning of any part of such documents, the Tenderer shall notify the Owner or their representative without delay, and no later than two (2) business days before the closing date for tenders, as noted in the Tender Ad.

Communication between the Tenderer and the Owner or their representative must be in writing, and if the Consultant considers that a correction, explanation, or interpretation is necessary or desirable, an Addendum will be issued to all who have taken out tender documents. Addendum will be issued to all plan takers by email (with read receipts).

The Consultant will only make official modifications to the Tender by issuing official addendums. Any oral statement or other representation from any source is not accepted as binding, unless confirmed through an official written addendum.

As noted in the Tender Ad, the final addendum will be issued no later than one (1) business day before the closing date for tenders.

1.11 Quantities Are Estimated

The quantities shown for unit price items in the Form of Tender are estimated only and are for the sole purpose of establishing a dollar amount based on the unit price. For any work done or materials supplied on a unit price basis, the Contractor will be paid for the actual measured quantities at the respective unit prices tendered.

The Contract Administrator has the right to increase or reduce the quantities required or to suspend or omit any item or portion of the work at any time as they may deem advisable. The Contractor shall not be entitled to any compensation for loss of anticipated profit as a result of the deletion of any item or part of an item from the Form of Tender, unless said item is a Major Item as defined in the General Conditions.

1.12 Acceptance or Rejection of Tenders

Subject to the General Conditions, except as provided hereunder, neither the Contract Administrator nor any officer or employee of the Owner has authority to make or accept an offer or to enter into a contract on behalf of the Owner or to create any rights against or to impose any obligations on the Owner. The recommendation of a tender to the Owner for acceptance does not constitute acceptance of the tender by the Owner.

A tender is accepted by the Owner when an agreement in the form bound herein is executed by the Owner and by the tenderer or when the Contract Administrator, with the written authorization of the Owner and within the period referred to in Section 1.13 hereof, has issued a written order to commence work to the tenderer and the Owner or anyone acting on its behalf has requested the tenderer to execute the Agreement and to return it to the Owner and the acceptance of the tender and the execution of the Agreement by the Owner are subject to the express condition that the Owner receive a Performance Bond and a Payment Bond in accordance with the requirements hereof, within seven (7) days after notification of the execution of the agreement by the Owner has been mailed to the tenderer whose tender has been accepted as aforesaid.

The Owner shall not be responsible for any liabilities, costs, expenses, loss, or damage incurred, sustained or suffered by any tenderer prior or subsequent to or by reason of the acceptance or the non-acceptance by the Owner of any tender or by reason of any delay in the acceptance of a tender save as provided in the Contract. Tenders are subject to a formal contract being prepared and executed. The Owner reserves the right to reject any or all tenders and to waive formalities as the interests of the Owner may require without stating reasons therefor and the lowest or any tender will not necessarily be accepted. If an insufficient number of tenders are received, tenders may be returned unopened.

1.13 Period of Validity of Tender

The tenderers attention is drawn to the Form of Tender, "Tender Validity Period", for the tender validity period. The prices entered by the Tenderer in the Form of Tender shall be based on the assumption that the Owner will notify the successful Tenderer in writing that their Tender has been accepted within forty-five (45) calendar days of the Tender Opening.

In addition, however, the tenderer shall enter in the space provided in the Form of Tender the extra lump sum price, if any, to be added to the Total Tender Price shown in the form of Tender if the Contract Administrator's written award of contract is issued to the tenderer after the aforesaid 45-day period has elapsed but within a 60-day period after the opening date for tenders.

The forgoing lump sum shall apply regardless of any difference between the Final Contract Price and the Original Contract Price.

Failure to enter the extra lump sum price in the space provided in the Form of Tender shall mean that the extra lump sum for extending the validity of tender to 60 days shall be considered NIL.

1.14 Tender Deposit

Each tender shall include a tender deposit in the form of a certified cheque, bid bond or bank draft and in the amount stated in the Form of Tender and payable as instructed in the Tender Ad. The tender deposits of all but the two (2) lowest tenderers will be returned within ten (10) days after the date of opening tenders. The tender deposits of the two (2) lowest tenderers will be retained until a tender has been accepted and the Performance Bond, the Labour and Material Payment Bond and the other documents required herein have been furnished to the satisfaction of the Owner, save that if a tenderer has not been requested by the Owner to execute the Agreement within 45 days after the date of opening tenders or if the Contract Administrator has not issued to the tenderer a written order to commence work within the said 45 days, their tender deposit will be returned, except as otherwise provided herein. After the execution of the Contract and the receipt by the Owner of the Performance Bond and the Labour and Material Payment Bond the tender deposit of the successful tenderer will be returned.

If either of the above-mentioned two (2) tenderers has not been notified within 45 days after the date of opening tenders that their tender has been recommended to the Owner for acceptance, they may apply to the Owner for the return of their tender deposit. Unless otherwise determined by the Owner, the tender deposit of one of the said two (2) tenders (normally the one who submitted the second lowest tender) will be returned when so applied for. The tender deposit of the other tenderer will be retained or returned by the Owner as provided for elsewhere in this Section.

The Owner may, at its discretion:

- a) Cash a tender deposit cheque and deposit the proceeds to its account, without prejudice to the ultimate disposition of such tender deposit as provided for herein; or
- b) Return a tender deposit to a tenderer at an earlier time than provided for herein; or
- c) Return a tender deposit to a tenderer on receipt from the said tenderer of an alternative security acceptable to the Owner in lieu of the said tender deposit; and no such action shall prejudice the validity of the tender to which such tender deposit relates.

Except as otherwise herein provided the tenderer guarantees that if their tender is withdrawn before the Owner shall have considered the tenders or before or after they have been notified that their tender has been recommended to the Owner for acceptance or that if the Owner does

not for any reason receive within the period of seven (7) days as stipulated and as required herein, the Agreement executed by the tenderer, the Performance Bond and the Labour and Material Payment Bond executed by the tenderer and the surety company and other documents required herein, the Owner may retain the tender deposit for the use of the Owner and may accept any tender, advertise for new tenders, negotiate a contract or not accept any tender as the Owner may deem advisable.

1.15 Agreement

The tenderer agrees that, if requested so to do by the Owner or anyone acting on its behalf within 60 days after the date of opening tenders, they will execute in quadruplicate and return to the Owner the Agreement in the form bound herein within seven (7) days after being so requested. If the tenderer has not been so requested within the said 60 days or if the Contract Administrator's written order to commence work has not been mailed or delivered to the tenderer or their office or their postal address within the said 60 days, the tenderer may, unless they have otherwise agreed or offered and except as otherwise provided herein, withdraw their tender.

1.16 Performance and Payment Bonds

The Contractor, together with a surety company shall, unless otherwise directed, furnish to the Owner a Performance Bond and a separate Labour and Material Payment Bond each in the amount of one hundred percent (100%) of the total tender price. The bonds shall be those issued by a bonding agency licensed to operate in the Province of Ontario and in a form satisfactory to the Owner. The tenderer shall tender for the cost of the bonds in the item provided for that purpose in the Form of Tender on the assumption that each bond will be in the amount of 100% of the total tender price.

The tenderer shall include with their tender the Agreement to Bond executed under its corporate seal by the surety company from which they propose to obtain the required bonds. The tenderer will be required to furnish the Performance Bond and the Labour and Material Payment Bond in triplicate as required within seven (7) days after notification of the execution of the Agreement by the Owner has been mailed to them. One copy of the said bonds shall be bound into each of the three (3) executed sets of the Contract.

1.17 Proof of Ability

In order to aid the Owner in determining the responsibility of each tenderer, the tenderer shall complete the following statement sheets in the form of tender:

- a) Statement "A" – Stating the tenderer's experience in similar work which they have successfully completed.
- b) Statement "B" – Giving a list of the tenderer's senior supervisory staff to be employed on the Contract with a summary of the experience of each.

1.18 Subcontractors

The tenderer shall give in Statement “C” of the tender documents the name and address of each proposed subcontractor used in making their tender. Only one subcontractor shall be named for each part of the work to be sublet.

If the successful tenderer wishes to substitute a subcontractor other than the one named in Statement C of the Form of Tender for a specific item of work, they shall submit documentation to the Contract Administrator pertaining to the proposed subcontractor’s experience and competence to carry out the work. Employment of the proposed subcontractor on the works is subject to the written approval of the Contract Administrator.

The term “subcontractor” shall not include suppliers of preselected equipment unless otherwise specifically stated in these documents or directed.

1.19 Workplace Safety and Insurance Board

The Contractor shall provide the Contract Administrator with copies of a Certificate of Clearance from the Workplace Safety and Insurance Board as further described in the General Conditions of the contract.

1.20 Occupational Health and Safety

To avoid any misunderstanding as to the nature of the work to be performed herein, the Contractor by executing this contract, unequivocally acknowledges that it is the constructor within the meaning of the Occupational Health and Safety Act, and the Contractor undertakes to carry out the duties and responsibilities of a constructor with respect to the work.

It is specifically drawn to the attention of the tenderer that the Occupational Health and Safety Act provides in addition to other matters that, "A constructor shall ensure, on a project undertaken by the constructor that:

- (a) the measures and procedures prescribed by this Act and the regulations are carried out on the project.
- (b) every employer and every worker performing work on the project complies with this Act and the regulations; and,
- (c) the health and safety of workers on the project is protected."

1.21 Canadian Labour and Material

Unless otherwise specifically approved in writing by the Contract Administrator or specified in the Contract the Contractor shall employ Canadian labour. He shall utilize materials, parts, and equipment of Canadian manufacture in constructing the works wherever possible. Provincial policy provides for a preference of up to ten percent (10%) for Canadian content in the analysis of tenders.

1.22 Cost of Power and Facilities at the Site

The Contractor shall provide and shall bear the costs of all electricity, fuel, water, and sanitary facilities required for, or at the site of, the works up to the date of substantial performance as established by the Certificate of Substantial Performance. Such costs incurred after the said date shall be borne by the Owner save that any such costs incurred in completing unfinished work or rectifying deficiencies may, at the discretion of the Contract Administrator, be charged against the Contractor.

1.23 Review of Shop Drawings

The Contractor (or subcontractor or equipment supplier acting on behalf of the Contractor) shall submit to the Contract Administrator in accordance with a procedure to be stipulated by the Contract Administrator all shop, working, or setting drawings required in order to make clear the work proposed. The Contractor shall make any changes in such drawings that the Contract Administrator may require.

When submitting such drawings, the Contractor shall notify the Contract Administrator in writing of all respects in which such drawings differ from the requirements of the Contract or from previously notified requirements of the Contract Administrator. The Contract Administrator's review of such drawings shall not be construed as approval of such differences unless the Contractor has complied with the preceding sentence hereof and unless the Contract Administrator has specifically approved such differences in writing.

The Contract Administrator's review of such drawings shall not relieve the Contractor from responsibility for the correctness of the drawings or the adequacy of the details shown on the drawings.

Work shall not be carried out before the Contract Administrator's review of the shop, working, or setting drawings relating to such work has been carried out.

1.24 Machinery and Equipment Supplied by the Contractor

The Contractor is responsible for ensuring that all machinery and equipment supplied by them, or by any subcontractor under the Contract, complies with the requirements of the Contract and in particular with the requirements of the Specifications for machinery and equipment, and that all suppliers of such machinery and equipment comply with such requirements. Failure on the part of a supplier to comply with such requirements shall not relieve the Contractor of responsibility for ensuring that the requirements of the Contract are fulfilled.

1.25 Harmonized Sales Tax

The total tendered amount noted in the Form of Tender shall be exclusive of Harmonized Sales Tax. Payments of the Harmonized Sales Tax will be made to the contractor in conjunction with amounts certified as due on Monthly Payment Certificates as approved by the Contract Administrator. The amount of tax due will be shown as a separate item.

1.26 Non-Resident Contractor

If the Contractor is non-resident in Ontario, they shall, immediately after they have received the Contract Administrator's written order to commence work, obtain from the Retail Sales Tax Branch a certificate showing that the Contractor has registered with the Retail Sales Tax Branch and shall submit such certificate to the Owner at the same time that they furnish the Performance Bond and the Labour and Material Payment Bond.

If the Contractor is non-resident in Ontario, they shall not commence work or order any materials or equipment for the Contract until they have registered with the Retail Sales Tax Branch.

The Contractor shall ensure that all subcontractors whom they propose to use for carrying out any of the work required by the Contract and who are non-resident in Ontario have registered with and have complied with the requirements of the Retail Sales Tax Branch before they commence any such work.

1.27 Insurance

The Contractor shall procure and maintain insurance, naming the Owner and Contractor Administrator as additionally insured in accordance with the General Conditions and Supplemental General Conditions.

1.28 Access to Existing Operating Facilities During Construction

The Contractor is reminded that it is essential that continuous access be provided to existing operating facilities within the vicinity of the working area during the entire construction period. Therefore, the Contractor will be required to schedule work and construct necessary temporary works as necessary to ensure this requirement is met. All costs anticipated for compliance with this clause shall be included in the Tender Price.

1.29 Lump Sum for Other Requirements

In this item of the Schedule of Items and Prices, or in the case of a lump sum type contract, in the Breakdown Schedule, the tenderer shall enter his tender price for providing items such as watchmen, permits and approvals (other than those to be paid by the Owner), items required by the Drawings or Specifications but which have been omitted from the Schedule and other items required by the Contract but not specifically covered by or related to the other items in the Schedule.

1.30 Layout

The Contractor shall be responsible to lay out the project. A series of stakes shall be placed at all new structures and at maximum 25-metre intervals and off set to property line to delineate the stations as per the Contract Drawings.

If requested, georeferenced (NAD83) AutoCAD Civil 2D 2018 drawings will be provided to the Contractor, subject to the signature of a “CAD Drawing Release Waiver” by the Contractor. Alternatively, the Contractor will be given central coordinates.

AutoCAD drawings will not be provided during the tender period.

1.31 As-Built Records

The Contractor is responsible to provide redline “as-built” drawings, which shall be updated as the project progresses and will be verified by the Contract Administrator for completeness and accuracy. “As-built” drawings shall include:

- (a) Geodetic invert elevations of all storm at all structures,
- (b) Any modifications made during construction (plan view and profile view as applicable),
- (c) Plan view locations of all surface features (grates, valves, hydrants, curb stops, etc.) as surveyed by the Contractor at the completion of the project. Contractor shall also provide the Contract Administrator with a points file of all surface features, complete with northings, eastings, elevations, and descriptions.

“As-built” records must be submitted prior to the issuance of Substantial Performance.

1.32 Coordination with Property Owners

The Contractor shall be responsible to coordinate water shutdowns, location of new services and laterals, driveway closures, etc. with affected property owners.

The Contractor shall be receptive to requests from property owners to complete additional work on private property, such as reconstruction of driveways, laterals, services, etc. beyond the limits shown on the Contract Drawings.

It is understood that work on private property beyond the limits shown on the Contract Drawings will not be paid for by the Town, except as required to separate existing shared services.

1.33 Mandatory Job Showing

There will be a mandatory job showing, scheduled for Monday, June 2nd, 2025 at 10:00 am, at the administration building B (upstairs) at 3035 County Rd. 2, Johnstown, ON K0E 1T1.

The owner shall not be bound by information provided by any of its representatives or employees that may be present at the time of such visit, unless confirmed in writing by addendum.

SECTION 2

FORM OF TENDER

SECTION 2 - FORM OF TENDER

Project Name: **Land Development: Phase II – Culvert Reconstruction**

Project No: **324-021**

Tenderer's Business Name: _____

Business Address: _____

Type of Business: ☐ Proprietorship ☐ Corporation ☐ Partnership
(Place checkmark in appropriate box)

Note: The Tenderer's name and address must be inserted above, and, in the case of a partnership, the name and residence of each and every member of the firm must be listed.

HST Number: _____

To: **Port of Johnstown**
(herein referred to as the Owner)

I (We)_____ having carefully examined the locality and site of the proposed works, and having read, understood and accepted the Agreement, **Addendum(s) No. _____ to _____ inclusive***, Special Provisions, Contract Drawings, Information to Bidders, Supplemental Specifications, Standard Specifications (if any), Form of Tender, Supplemental General Conditions, General Conditions attached hereto, each and all of which forms part of this Tender, hereby offer to furnish all machinery, tools, labour, apparatus, plant and other means of construction; all materials, except as otherwise stated in the Contract; and to complete the work in strict accordance with the Contract Documents, being the Contract or Contracts herein being referred to, on the terms, conditions and time specified and under the provisions set out or called for in the Contract Documents for the Total Tendered Amount of:

_____/100

dollars (\$_____) excluding HST, being made as shown in the Form of Tender – Schedule of Items and Prices.

* **THE TENDERER WILL INSERT HERE THE NUMBER OF THE ADDENDA ISSUED DURING THE TENDERING PERIOD AND TAKEN INTO ACCOUNT IN PREPARING THE TENDER.**

2.1 Schedule of Items and Prices

ITEM #	DESCRIPTION	UNIT	QTY	UNIT PRICE	TOTAL AMOUNT
1	Removal of Existing Asphalt	m ²	845		
2	Removal of Existing Culverts of Various Sizes	m	70		
3	Common Excavation and Grading	ls	1		
4	PROVISIONAL – Bedrock Excavation	m ³	50		
5	New 600mmØ HDPE Culverts	m	94		
6	Granular 'B'	T	590		
7	Granular 'A'	T	290		
8	Hot Mix Asphalt (50mm HL-4)	T	90		
9	Rip-Rap c/w Geotextile	T	10		
10	Concrete Headwall	ea	1		
11	Topsoil and Sod	m ²	50		
12	Sediment and Erosion Control	ls	1		
13	Lump Sum for Other Requirements	ls	1		
14	Contingency	ls	1	\$25,000	\$25,000
	Total Tendered Amount (excl. H.S.T.)			\$	

2.2 DECLARATION OF TENDERER

The Tenderer declares that:

- a. No person, partnership, or corporation other than the Tenderer has any interest in this Tender or in the proposed Contract for which this Tender is made and that this Tender is made without any connection, knowledge, comparison of figures or arrangements with any other person, partnership or corporation submitting a Tender for the same work and is in all respects made without collusion or fraud.
- b. No member of the Municipal Council and no employee of the Municipality or of the Contract Administrator is or will become interested directly or indirectly as a contracting party, partner, surety or otherwise in or in the performance of the Contract or in the supplies, work, or business to which it relates, or in any portion of the profits thereof, or in any of the monies derived therefrom.
- c. The prices offered in this schedule takes into account in all respects the cost of execution of the work under all weather conditions.
- d. The Tenderer acknowledges that the Owner shall have the right to reject any, or all, Submissions for any reason, or to accept any Submission which the Owner, in its sole unfettered discretion, deems most advantageous to itself. The lowest, or any, Submission will not necessarily be accepted, and the Owner shall have the unfettered right to:
 - i. Accept a non-compliant Submission;
 - ii. Accept a Submission which is not the lowest Submission; and
 - iii. Reject a Submission that is the lowest Submission even if it is the only Submission received.
- e. The Tenderer acknowledges that the Owner reserves the right to consider, during the evaluation of Submissions;
 - i. information provided in the Submission document itself.
 - ii. information provided in response to enquiries of credit and industry references set out in the Submission.
 - iii. information received in response to enquiries made by the Owner of third parties apart from those disclosed in the Submission in relation to the reputation, reliability, experience, and capabilities of the Tenderer.
 - iv. the manner in which the Respondent provides services to others.
 - v. the experience and qualification of the Tenderer's senior management, and project management,
 - vi. the compliance of the Tenderer with the Owner's requirements and specifications; and
 - vii. whether the Tenderer has been involved in litigation with the Owner during the last sixty (60) months before the date this request for Tender.
- f. The Tenderer acknowledges that the Owner may rely upon the criteria which the Owner deems relevant, even though such criteria may not have been disclosed to the Tenderer. By submitting a Submission, the Tenderer acknowledges the Owner's rights under this Section and absolutely waives any right or cause of action against the Owner and its consultants, by reason of the Owner's failure to accept the Submission submitted by the

Tenderer, whether such right or cause of action arises in contract, negligence, or otherwise.

2.3 TENDER VALIDITY PERIOD

The submitted tender shall remain valid for forty-five (45) days from the date of tender closing. In accordance with Item 1.13 of the Information for Tenderers, the extra lump sum to extend the period of validity shall be as follows:

- a. From 45 days to 60 days shall be \$_____

The Owner may in its discretion take into account the extra lump sum tendered above when determine the lowest tender submission. If left blank, Nil will be entered.

2.4 CONTRACT BONDS

All Tenders must be accompanied by an Agreement to Bond, completed and executed by the Tenderer's Surety. The Agreement to Bond will provide for a Performance Bond for 100% of the Contract Price, and a Labour and Material Payment Bond for 100% of the Contract Price.

The Successful Tenderer shall, prior to execution of the Contract, provide to the Owner the following Bonds:

- a. a bond in the amount of 100% of the contract price (excluding H.S.T.) guaranteeing the full and faithful performance of the work, including maintenance of the works for the duration of warranty period and the obligation to indemnify and save harmless the Owner, and
- b. a bond in the amount of 100% of the contract price (excluding H.S.T.) guaranteeing payment for labour and materials.

2.5 CONSTRUCTION SCHEDULE

The successful Contractor acknowledges that time shall be deemed to be of the essence for this Contract. The contractor agrees to have all Works included in Table 1 and Table 2 above "Substantially Performed" by **August 15th, 2025**, based on contract award date of **June 24th, 2025**.

The successful Tenderer will be required to submit a Detailed Work Schedule and Projected Monthly Cash Flow Forecast within fourteen (14) days after contract award.

2.6 TENDER DEPOSIT

Every tender shall be accompanied by a certified cheque, bank draft, or bid bond made payable to the Owner in the amount of **ten percent (10%)** of the total bid price to serve as a tender deposit. Bid bonds submitted as a security shall be in accordance with the standards of the Canadian Construction Association and shall be from the same guarantee surety company supplying the Performance and Labour and Material Bonds for this Contract.

2.7 TENDER ACCEPTANCE AND AWARD OF CONTRACT

The Tenderer agrees that:

- a. The Tender is subject to a formal contract being prepared and executed.
- b. If this Tender is accepted by the Owner, the required Contract Documents will be sent to the successful Tenderer following acceptance of the Tender. The Tenderer will execute the Agreement in triplicate and furnish in triplicate to the Owner the required Bonds, the Certificate of Liability Insurance, and a Workplace Safety & Insurance Board clearance letter stating that all assessments or compensation payable to the Workplace Safety & Insurance Board have been paid along with all other required documents within 7 (seven) calendar days from the date of receipt of the Contract Documents from the Owner.
- c. This offer is to continue open to acceptance until the Contract is executed by the successful Tenderer or before the expiry of the validity period, whichever event first occurs, and that the Owner may, at any time within that period accept this Tender whether any other Tender has been previously accepted or not.
- d. The Tenderer will forfeit the deposit accompanying this Tender if this Tender is withdrawn before the Contract is executed by the successful Tenderer or before the expiry of the validity period, whichever event first occurs.
- e. If so, requested in writing by the Owner, the undersigned will enter into a Contract with the Owner based upon the Tender but jointly in the names of the Tenderer and the Tenderer's parent company, if any. The Tenderer further agrees that any request by the Owner as indicated above is not and shall not be deemed to be a counter-offer by the Owner.
- f. The Owner may reject any or all tenders, waive minor informalities or minor irregularities and accept the tender which appears to be in the best interest of the Owner.
- g. If this Tender is accepted by the Owner, the Tenderer will carry out any additional or extra work (including the supplying of any additional materials or equipment pertaining thereto) or will delete any work as may be required by the Contract Administrator in accordance with the Contract.
- h. The carrying out of any work referred to in clause (g) above or the issuance by the Owner of a Contract Change Order relating to such work or the acceptance by the Tenderer of such Contract Change Order will not, except as expressly stated in such Contract Change Order, waive, or impair any of the terms of the Contract or any Contract Change Order previously issued by the Owner or any of the rights of the Owner under the Contract.
- i. The Owner reserves the right to remove any or all the items listed as provisional and reduce the Contract value by the stipulated amount for the provisional items. The value of all other "non-provisional" items shall not be impacted by the deletion of provisional items.
- j. The Owner reserves the right to consider or not consider the value of any or all of the items listed as provisional in awarding the Contract.

- k. The Tenderer is not entitled to payment of the Contingency Allowance except for additional work carried out by the Tenderer in accordance with the Contract and only to the extent of such additional work, as authorized by the Owner or their agent in writing.

2.8 WORKPLACE SAFETY AND INSURANCE BOARD

The successful Tenderer must:

- a. Submit their Workplace Safety Insurance Board (WSIB) number and CAD-7 rating of the applicable province in which the employer resides.
- b. Furnish a Workplace Safety and Insurance Board Clearance Certificate indicating that such contractor or sub-contractor is in good standing before starting to perform services pursuant to this Agreement. Such Certificate must be renewed every sixty (60) days, for as long as the Agreement is in effect, and a copy shall be promptly provided to the Owner.

This Tender is submitted by:

Tenderer's Business Name: _____

Tenderer Signature: _____

Tenderer's Signature
I/We are authorized to bind the Company/Corporation

Print Name

Witness Signature: _____

Witness Signature

Print Name

Dated at _____ this _____ day of _____, 20____.

Note: If the Tender is submitted by or on behalf of a corporation, it must be signed in the name of such corporation by the duly authorized officers or agent thereof who shall also subscribe their own name and office. The seal of the Corporation shall also be affixed.

If the Tender is submitted by or on behalf of an individual or partnership, a seal must be affixed opposite the signature of the individual or each partner and each signature shall be witnessed.

2.9 STATEMENT “A” – TENDERER’S EXPERIENCE

All Contractors must complete Statements A, B and C – failure to complete and submit these three Statements may result in the rejection of their bid submissions.

Complete the following table providing a minimum of three (3) projects similar in type and scope to this project, which have been successfully completed by the Tenderer and that demonstrate the Tenderer’s past relevant experience and success in completing projects of similar scope and magnitude. The Owner reserves the right to verify all information provided. (Additional text on separate sheets may be attached provided the information is directly relevant to and/or qualify the contents of the Statements.)

WORK EXPERIENCE - PROJECT 1	
Project Name	
Owner or Municipality	
Contact name/Telephone No.	
Date Work was Completed	
Location of project	
Approximate Value	
Description of work Must indicate if the work included elements that are pertinent to this project.	

WORK EXPERIENCE - PROJECT 2	
Project Name	
Owner or Municipality	
Contact name/Telephone No.	
Date Work was Completed	
Location of project	
Approximate Value	
Description of work Must indicate if the work included elements that are pertinent to this project.	

WORK EXPERIENCE - PROJECT 3	
Project Name	
Owner or Municipality	
Contact name/Telephone No.	
Date Work was Completed	
Location of project	
Approximate Value	
Description of work Must indicate if the work included elements that are pertinent to this project.	

All Contractors must complete Statements A, B and C – failure to complete and submit these three Statements may result in the rejection of their bid submissions.

At a minimum, the Tenderer must identify the proposed:

- a. Project Manager,
- b. Construction Superintendent (In-charge of day to day operation, full time presence on construction site.)
- c. Project Foreman

[illegible]

2.11 STATEMENT “C” – LIST OF SUB-CONTRACTORS

All Contractors must complete Statements A, B and C – failure to complete and submit these three Statements may result in the rejection of their bid submissions.

The Contractor shall identify in the table below the Sub-Contractor(s) to be employed in this contract for each sub-trade. Where the Contractor proposes to complete the work specified, the contractor must indicate “By Own Forces” in the space provided. Failure to fully disclose all information requested may result in rejection of the Contractor’s bid. Where the Contractor indicates work “By Owner Forces”; the Contractor cannot substitute a Sub-Contractor after the tender has been received.

SUB-TRADE	PROPOSED SUBCONTRACTOR
Underground Servicing	
New Asphalt	
Landscaping	

Add sub-trades as required.

SECTION 3

CONTRACT AGREEMENT

SECTION 3 - CONTRACT AGREEMENT

This agreement, made in triplicate this _____ day of _____ in _____.

BETWEEN:

(hereinafter called the "Owner")

- and -

(hereinafter called the "Contractor")

WITNESSETH

That the Owner and Contractor in consideration of the fulfillment of their respective promise and obligations herein set forth covenant and agree with each other as follows:

ARTICLE 1

a. A general but not necessarily complete description of the work is as follows:

- Remove existing and install new culvert between County Rd.2 and St. Lawrence River at 2801 County Rd. 2.
- Install new concrete headwall.

b. The Contractor shall, for the prices set out in the Form of Tender and except as otherwise specifically provided, provide at no additional cost to the Owner all and every kind of labour, machinery, plant, structures, roads, ways, materials, appliances, articles and things necessary for the due execution and completion of all the work set out in this Contract and shall forthwith according to the instructions of the Engineer, commence the works and diligently execute the respective portions thereof, and deliver the works complete in every particular to the Owner within the time specified in the Contract.

ARTICLE 2

In the event that the Form of Tender provides for and contains a Contingency Allowance, it is understood and agreed that such Contingency Allowance is merely for the convenience of accounting by the Owner, and the Contractor is not entitled to payment thereof except of extra or additional work carried out by him as directed by the Contract Administrator and in accordance with the Contract and only to the extent of such extra or additional work.

ARTICLE 3

In case of any inconsistency or conflict between the provisions of this Agreement and the Plans or Specifications or General Conditions or Form of Tender or any other document or writing, the provisions of such documents shall take precedence and govern in the following order, namely:

1. This agreement
2. Addendum, if any
3. Special Provisions
4. Contract Drawings
5. Standard Specifications (OPSS latest edition)
6. Standard Drawings
7. Tender
8. Supplemental General Conditions
9. OPSS.Muni 100 2019 General Conditions
10. Working Drawings

ARTICLE 4

The Contractor shall not without the consent in writing of the Contract Administrator and without restricting in any way the provisions of the Section of the General Conditions headed "Subletting", make any assignment of any part or the whole of any monies due or to become due under the provisions of this Contract.

ARTICLE 5

The Owner covenants with the Contractor that the Contractor having in all respects complied with the provisions of this Contract, will be paid for and in respect of the works the sum of _____/100 Dollars (\$ _____) subject to Article 2 hereof and subject to such additions and deductions as may properly be made under the terms hereof, subject to the provision that the Owner may make payments on account monthly or otherwise as may be provided in the General Conditions attached hereto.

ARTICLE 6

Where any notice, direction or other communication is required to be or may be given or made by one of the parties hereto to the other or to the Contract Administrator or to his agent, it shall be deemed sufficiently given or made if mailed or delivered in writing to such party or to the Contract Administrator at the following addresses:

The Owner:	Port of Johnstown 3035 County Rd. 2 Johnstown, ON K0E 1T1
------------	---

The Contractor:

The Contract Administrator: EVB Engineering
800 Second St. West
Cornwall, ON K6J 1H6

Where any such notice, direction or other communication is given or made to the Contract Administrator, a copy thereof shall likewise be delivered to any agent of the Contract administrator appointed in accordance with the General Conditions of this Contract and where any such notice, direction or other communication is given or made to such agent a copy thereof shall likewise be delivered to the Contract Administrator.

ARTICLE 7

A copy of each of the Specifications, General Conditions, Special Provisions, Form of Tender, Information for Tenderers is/are hereto annexed and together with the Drawings relating thereto and listed in the Specifications are made part of this Contract as fully to all intents and purposes as though recited in full herein.

ARTICLE 8

No implied contract of any kind whatsoever by or on behalf of the Owner shall arise or be implied by or inferred from anything in this Contract contained, nor from any position or situation of the parties at any time, it being clearly understood that the express covenants and agreements herein contained made by the Owner shall be the only covenants and agreements upon which any rights against the Owner may be founded.

ARTICLE 9

Time shall be deemed the essence of this Contract.

ARTICLE 10

The Contractor declares that in tendering for the works and in entering into this Contract he has either investigated for himself the character of the work and all local conditions that might affect his tender or his acceptance or performance of the work, or that not having so investigated, he acknowledges that his responsibility under the Contract is in no way reduced or limited thereby and, in either case, he is willing to assume and does hereby assume all risk of conditions arising, developing, or being revealed in the course of the work which might or could make the work, or any items thereof, more expensive in character, or more onerous to fulfill, than was contemplated or known when the tender was made or the Contract signed. The Contractor also declares that he did not and does not rely upon information furnished by any methods whatsoever by the Owner or its officers, employees or agents, being aware that any information from such sources was and

is approximate and speculative only and was not in any manner warranted or guaranteed by the Owner.

ARTICLE 11

The Contract shall apply to and be binding on the parties hereto and their successors, administrators, executors and assigns and each of them.

IN WITNESS THEREOF the parties hereto have hereunto set their hands and seals the day and year first above written or caused their corporate seals to be affixed, attested by the signature of their proper officers, as the case may be.

_____	}	Owner:	
		Per: _____	
		Per: _____	
*Witness as to Signature of Contractor	}		(Seal)
Address _____		Contractor:	
_____		Per: _____	
Occupation _____		Per: _____	
			(Seal)

*Not necessary if corporate seal is affixed.

SECTION 4
SUPPLEMENTAL GENERAL CONDITIONS
GENERAL CONDITIONS

SECTION 4 - SUPPLEMENTAL GENERAL CONDITIONS

Insert the following sections to the General Conditions:

GC 1.04 Definitions (Add)

Contemplated Change Notice (CCN) – means a request for a price quotation only. This is not an instruction to proceed with the change to the original contract documents or a change to the contract schedule.

Request for Information (RFI) – means a request for information seeks the clarification of plans, drawings, specifications, and agreements. The Construction RFI is a formal written process in which parties, such as, the Contractor and designer clarify information gaps on construction documents.

Site Instruction (SI) – is a request, order, or command from the Owner to the Contractor that contains directives to the Contractor.

Certificate of Completion – a contract shall be deemed to be completed and services or materials shall be deemed to be last supplied to the improvement when the price of completion, correction of a known defect or last supply is not more than the lesser of,

- (a) 1 per cent of the contract price; and
- (b) \$5,000. R.S.O. 1990, c. C.30, s. 2(3); 2017, c. 24, s. 4(5,6).

GC 8.02.03.13 Maintenance Security (Add)

.01 As referenced in 8.02.04.05.02 (d), the contract shall provide to the Owner for the duration of the Warranty Period, a Maintenance Security, the value of which shall be derived from the following table:

CONTRACT PRICE		VALUE OF MAINTENANCE SECURITY (\$)
FROM (\$)	TO (\$)	
Less than 0.1M		4% of Final Contract Price
0.1M	< 0.5M	4,000 on first 0.1M + 3.0% on next 0.4M
0.5M	< 1.0M	16,000 on first 0.5M + 2.4% on next 0.5M
1.0M	<2.0M	28,000 on first 1.0M + 2.2% on next 1.0M
2.0M	<4.0M	50,000 on first 2.0M + 2.0% on next 2.0M
4.0M	<6.0M	90,000 on first 4.0M + 1.8% on next 2.0M
6.0M	10.0M	126,000 on first 6.0M + 1.5% on next 4.M
Greater than 10.0M		186,000 on first 10.0M + 1.0% on balance

The maintenance security, which is at no time a part of the statutory holdback, shall be retained by the Owner in increments from monies that would otherwise be payable to the Contractor, commencing during the latter part of the period of construction, so that by the

date of substantial performance of the contract the full value of the required maintenance security has been retained.

Except as otherwise provided hereunder, the maintenance security, less any deductions made therefrom as provided for in the Contract, shall be paid to the Contractor following the issuance by the Contract Administrator of the Final Acceptance Certificate at the end of the Warranty Period.

The Contractor may apply in writing to the Contract Administrator at the time of substantial performance to substitute for the monies retained as the maintenance security an alternative maintenance security of equivalent or greater value comprising:

- (a) one or more irrevocable letters of credit or
- (b) Another readily negotiable security.

Acceptance of any such alternative shall be at the discretion of the Contract Administrator and the Solicitor for the Owner.

Following receipt and acceptance of any such alternative, the Contract Administrator shall release to the Contractor the monies previously retained for maintenance security purposes.

The Contract Administrator may, in their discretion, allow the total maintenance security to be made up in part of monies retained under the Contract and in part of an alternative maintenance security as indicated in (a) and (b) above provided that the total value of such parts, as determined by the Contract Administrator, shall be not less than the required value as derived from the table set out above.

Such alternative maintenance security or the monies derived therefrom, less any deductions made as provided for in the Contract, shall be released to the Contractor following the issuance by the Contract Administrator of the Final Acceptance Certificate at the end of the period of maintenance.

Where the Contract Administrator proposes to release the statutory holdback to a Subcontractor through the Contractor as provided for herein, the Contract Administrator shall arrange for "the required maintenance security in respect of the said Subcontract", to be provided by a retention from monies that would otherwise be payable to the Contractor. The value of the required maintenance security shall be determined by applying to the value of the Subcontract work the same effective percentage retention, derived from the foregoing table, as applies to the Contract as a whole.

The Contractor may apply in writing to the Contract Administrator to substitute for the maintenance security referred to in the preceding paragraph an irrevocable letter of credit in the name of the Contractor.

Following the substantial performance of the Contract, the Contract Administrator may require the Contractor to consolidate all letters of credit provided pursuant to the foregoing into one or two letters of credit covering the Contract as a whole.

The Contractor shall allow his Subcontractors to provide letters of credit to the Contractor in conformity with the foregoing procedures. The Contractor shall provide the Contract Administrator with copies of any or all such letters of credit on request.

GC 8.02.04.04 Certificate of Substantial Performance (Amended)

- .01 Upon submission and acceptance of all maintenance and operation manuals, record drawings, warranties, certificates of approvals from the various authorities and commissioning authorities and application by the Contractor and when the Contract Administrator has verified that the contract has been substantially performed, the Contract Administrator shall issue a Certificate of Substantial Performance.

GC 8.02.04.01.05 Document Holdback (Add)

- .01 In addition to any other holdback either by statute, agreed to by the Owner and Contractor, or required by the Contractor, the Owner will retain a holdback in the amount of one percent of the contract price which will be released to the Contractor only after the Contractor has provided a complete set of as-built drawings and complete maintenance and operational documentation to the satisfaction of the Contract Administrator.
- .02 The documentation holdback will be retained by the owner at the time Contract Administrator certifies the seventy percent (70%) of the work has been performed.



OPSS MUNI GENERAL CONDITIONS OF CONTRACT

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SECTION GC 1.0 - INTERPRETATION

GC 1.01 Captions

- .01 The captions appearing in these General Conditions have been inserted as a matter of convenience and for ease of reference only and in no way define, limit, or enlarge the scope or meaning of the General Conditions or any provision hereof.

GC 1.02 Abbreviations

- .01 The abbreviations on the left below are commonly found in the Contract Documents and represent the organizations and phrases listed on the right:

"AASHTO"	-	American Association of State Highway Transportation Officials
"ACI"	-	American Concrete Institute
"ANSI"	-	American National Standards Institute
"ASTM"	-	ASTM International
"AWG"	-	American Wire Gauge
"AWWA"	-	American Water Works Association
"CCIL"	-	Canadian Council of Independent Laboratories
"CGSB"	-	Canadian General Standards Board
"CSA"	-	CSA Group - formerly Canadian Standards Association
"CWB"	-	Canadian Welding Bureau
"GC"	-	General Conditions
"ISO"	-	International Organization for Standardization
"MOECP"	-	Ontario Ministry of the Environment and Conservation and Parks
"MTO"	-	Ontario Ministry of Transportation
"MUTCD"	-	Manual of Uniform Traffic Control Devices, published by MTO
"OHSA"	-	Ontario Occupational Health and Safety Act
"OLS"	-	Ontario Land Surveyor
"OPS"	-	Ontario Provincial Standard
"OPSD"	-	Ontario Provincial Standard Drawing
"OPSS"	-	Ontario Provincial Standard Specification
"OTM"	-	Ontario Traffic Manual
"PEO"	-	Professional Engineers Ontario
"SAE"	-	SAE International
"SCC"	-	Standards Council of Canada
"SSPC"	-	The Society for Protective Coatings
"UL"	-	Underwriters Laboratories
"ULC"	-	Underwriters Laboratories Canada
"WHMIS"	-	Workplace Hazardous Materials Information System
"WSIB"	-	Workplace Safety & Insurance Board

GC 1.03 Gender and Singular References

- .01 References to the masculine or singular throughout the Contract Documents shall be considered to include the feminine and the plural and vice versa, as the context requires.

GC 1.04

Definitions

.01 For the purposes of the Contract Documents the following definitions shall apply:

Abnormal Weather means an extreme climatic condition characterized by wind speed, air temperature, precipitation, or snow fall depth, that is less than or greater than 1-1/2 standard deviations from the mean determined from the weather records of the 25 year period immediately preceding the tender opening date.

Actual Measurement means the field measurement of that quantity within the approved limits of the Work.

Addenda means any additions or change in the Tender documents issued by the Owner prior to Tender closing.

Additional Work means work not provided for in the Contract Documents and not considered by the Contract Administrator to be essential to the satisfactory completion of the Contract within its intended scope.

Agreement means the agreement between the Owner and the Contractor for the performance of the Work that is included in the Contract Documents.

Base means a layer of Material of specified type and thickness placed immediately below the pavement, driving surface, finished grade, curb and gutter, or sidewalk.

Business Day means any Day except Saturdays, Sundays, and statutory holidays.

Certificate of Subcontract Completion means the certificate issued by the Contract Administrator in accordance with clause GC 8.02.04.02, Certification of Subcontract Completion.

Certificate of Substantial Performance means the certificate issued by the Contract Administrator at Substantial Performance.

Change Directive means any written instruction signed by the Owner, or by the Contract Administrator where so authorized, directing that a Change in the Work or Extra Work be performed.

Change in the Work means the deletion, extension, increase, decrease, or alteration of lines; grades; dimensions; quantities; methods; drawings; substantial changes in geotechnical, subsurface, surface, or other conditions; changes in the character of the Work to be done; or Materials of the Work or part thereof, within the intended scope of the Contract.

Change Order means a written amendment to the Contract signed by the Contractor and the Owner, or the Contract Administrator where so authorized, covering contingencies, a Change in the Work, Extra Work, Additional Work; and establishing the basis for payment and the time allowed for the adjustment of the Contract Time.

Completion means contract completion as set out in the Construction Act.

Completion Certificate means the certificate issued by the Contract Administrator at Completion.

Completion Payment Certificate means the certificate described more particularly in clause GC 8.02.04.07.

Constructor means, for the purposes of, and within the meaning of the Occupational Health and Safety Act, R.S.O. 1990, c.O.1, as amended and amendments thereto, the Contractor who executes the Contract.

Contract means the undertaking by the Owner and the Contractor to perform their respective duties, responsibilities, and obligations as prescribed in the Contract Documents.

Contract Administrator means the person, partnership, or corporation designated by the Owner to be the Owner's representative for the purposes of the Contract.

Contract Documents mean the executed Agreement between the Owner and the Contractor, Tender, General Conditions of Contract, Supplemental General Conditions of Contract, Standard Specifications, Special Provisions, Contract Drawings, Addenda incorporated in a Contract Document before the execution of the Agreement, such other documents as may be listed in the Agreement, and subsequent amendments to the Contract Documents made pursuant to the provisions of the Agreement.

Contract Drawings or **Contract Plans** mean drawings or plans, any Geotechnical Report, any Subsurface Report, and any other reports and information provided by the Owner for the Work, and without limiting the generality thereof, may include soil profiles, foundation investigation reports, reinforcing steel schedules, aggregate sources lists, Quantity Sheets, and cross-sections.

Contract Time means the time stipulated in the Contract Documents for Substantial Performance or Completion of the Work, including any extension of time made pursuant to the Contract Documents.

Contractor means the person, partnership, or corporation undertaking the Work as identified in the Agreement.

Control Monument means any horizontal or vertical (benchmark) monument that is used to lay out the Work.

Controlling Operation means any component of the Work that, if delayed, may delay the completion of the Work.

Cut-Off Date means the date up to which payment shall be made for Work performed.

Daily Work Records mean daily Records detailing the number and categories of workers and hours worked or on standby, types and quantities of Equipment and number of hours in use or on standby, and description and quantities of Material utilized.

Day means a calendar day.

Drawings or **Plans** mean any Contract Drawings or Contract Plans, or any Working Drawings or Working Plans, or any reproductions of drawings or plans pertaining to the Work.

End Result Specification means specifications that require the Contractor to be responsible for supplying a product or part of the Work. The Owner accepts or rejects the final product or applies a price adjustment that is commensurate with the degree of compliance with the specification.

Engineer means a professional engineer licenced by the Professional Engineers of Ontario to practice in the Province of Ontario.

Equipment means all machinery and equipment used for preparing, fabricating, conveying or erecting the Work and normally referred to as construction machinery and equipment.

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

Extra Work means work not provided for in the Contract as awarded but considered by the Contract Administrator to be essential to the satisfactory completion of the Contract within its intended scope, including unanticipated Work required to comply with legislation and regulations that affect the Work.

Final Acceptance means the date on which the Contract Administrator determines that the Work has passed all inspection and testing requirements and the Contract Administrator is satisfied that the Contractor has rectified all imperfect Work and has discharged all of the Contractor's obligations under the Contract Documents.

Final Acceptance Certificate means the certificate issued by the Contract Administrator at Final Acceptance of the Work.

Final Detailed Statement means a complete evaluation prepared by the Contract Administrator showing the quantities, unit prices, and final dollar amounts of all items of Work completed under the Contract, including variations in tender items and Extra Work, all as set out in the same general form as the monthly Estimates.

Geotechnical Report means a report or other information identifying soil, rock, and ground water conditions in the area of any proposed Work.

Grade means the required elevation of that part of the Work.

Hand Tools means tools that are commonly called tools or implements of the trade and include small power tools.

Highway means a common and public highway any part of which is intended for or used by the general public for the passage of vehicles and includes the area between the lateral property lines thereof.

Inclement Weather means weather conditions or conditions resulting directly from weather conditions that prevent the Contractor from proceeding with a Controlling Operation.

Lot means a specific quantity of Material or a specific amount of construction normally from a single source and produced by the same process.

Lump Sum Item means a tender item indicating a portion of the Work for which payment will be made at a single tendered price. Payment is not based on a measured quantity, although a quantity may be given in the Contract Documents.

Major Item means any tender item that has a value, calculated on the basis of its actual or estimated tender quantity, whichever is the larger, multiplied by its tender unit price, which is equal to or greater than the lesser of,

- a) \$100,000, or
- b) 5% of the total tender value calculated on the basis of the total of all the estimated tender quantities and the tender unit prices.

Material means Material, machinery, equipment and fixtures forming part of the Work.

Monument means either a Property Monument or a Control Monument.

Owner means the party to the Contract for whom the Work is being performed, as identified in the Agreement, and includes, with the same meaning and import, "Authority."

Pavement means a wearing course or courses placed on the Roadway and consisting of asphaltic concrete, hydraulic cement concrete, Portland cement concrete, or plant or road mixed mulch.

Performance Bond means the type of security furnished to the Owner to guarantee completion of the Work in accordance with the Contract and to the extent provided in the bond.

Plan Quantity means that quantity as computed from within the boundary lines of the Work as shown in the Contract Documents.

Project means the construction of the Work as contemplated by this Contract.

Property Monument means any property bar, concrete pillar, rock post, cut cross or other object that marks the boundary between real property ownership.

Quality Assurance (QA) means a system or series of activities carried out by the Owner to ensure that Work meets the specified requirements.

Quality Control (QC) means a system or series of activities carried out by the Contractor, Subcontractor, supplier, and manufacturer to ensure that Work meets the specified requirements.

Quantity Sheet means a list of the quantities of Work to be done.

Quarried Rock means Material removed from an open excavation made in a solid mass of rock that, prior to removal, was integral with the parent mass.

Quarry means a place where aggregate has been or is being removed from an open excavation made in a solid mass of igneous, sedimentary, or metamorphic rock or any combination of these that, prior to removal, was integral with the parent areas.

Rate of Interest means the rate of interest as determined under the Financial Administration Act, R.S.O. 1990, c. F.12, as amended by the Minister of Finance of Ontario and issued by, and available from, the Owner.

Records mean any books, payrolls, accounts, or other information that relate to the Work or any Change in the Work, Extra Work, Additional Work or claims arising therefrom.

Roadway means that part of the Highway designed or intended for use by vehicular traffic and includes the Shoulders.

Shoulder means that portion of the Roadway between the edge of the travelled portion of the wearing surface and the top inside edge of the ditch or fill slope.

Special Provisions mean directions containing requirements specific to the Work.

Standard Drawing or Standard Specification means a standard practice required and stipulated by the Owner for performance of the Work.

Statutory Holdback means the holdbacks required under the Construction Act.

Subbase means a layer of Material of specified type and thickness between the Subgrade and the Base.

Subcontractor means a person, partnership or corporation undertaking the execution of a part of the Work by virtue of an agreement with the Contractor.

Subgrade means the earth or rock surface, whether in cut or fill, as prepared to support the pavement structure, consisting of Base, Subbase, and Pavement.

Substantial Performance has the meaning as set out in the Construction Act, R.S.O. 1990, c. C.30, as amended.

Subsurface Report means a report or other information identifying the location of Utilities, concealed and adjacent structures, and physical obstructions that fall within the influence of the Work.

Superintendent means the Contractor's authorized representative in charge of the Work and who shall be a "competent person" within the meaning of the definition contained in the Occupational Health and Safety Act, R.S.O. 1990, c. 0.1, as amended.

Surety means the person, partnership or corporation, other than the Contractor, licensed in Ontario to transact business under the Insurance Act, R.S.O. 1990, c.I.8, as amended, executing a bond provided by the Contractor.

Tender means an offer in writing from the Contractor, submitted in the format prescribed by the Owner, to complete the Work.

Time and Material means costs calculated according to clause GC 8.02.05, Payment on a Time and Material Basis.

Utility means an aboveground or underground facility maintained by a municipality, public utility authority or regulated authority and includes services such as sanitary sewer, storm sewer, water, electric, gas, oil, steam, data transmission, telephone, and cable television.

Warranty Period means the applicable time period according to clause GC 7.16.02, Warranty.

Work means the total construction and related services required by the Contract Documents.

Working Area means all the lands and easements owned or acquired by the Owner for the construction of the Work.

Working Day means any Day,

- a) except Saturdays, Sundays and statutory holidays;
- b) except a Day as determined by the Contract Administrator, on which the Contractor is prevented by inclement weather or conditions resulting immediately therefrom, from proceeding with a Controlling Operation. For the purposes of this definition, this shall be a Day during which the Contractor cannot proceed with at least 60% of the normal labour and Equipment force effectively engaged on the Controlling Operation for at least 5 hours;
- c) except a Day on which the Contractor is prevented from proceeding with a Controlling Operation, as determined by the Contract Administrator by reason of,
 - i. any breach of the Contract by the Owner or if such prevention is due to the Owner, another contractor hired by the Owner, or an employee of any one of them, or by anyone else acting on behalf of the Owner.
 - ii. non-delivery of Owner supplied Materials.
 - iii. any cause beyond the reasonable control of the Contractor that can be substantiated by the Contractor to the satisfaction of the Contract Administrator.

Working Drawings or Working Plans means any Drawings or Plans prepared by the Contractor for the execution of the Work and may, without limiting the generality thereof, include formwork, falsework, and shoring plans; Roadway protection plans; shop drawings; shop plans; or erection diagrams.

GC 1.05 Ontario Traffic Manual

- .01 All references in the Contract Documents to the MUTCD, including all Parts and Divisions thereof, or MTO Traffic Control Manual for Roadway Work Operations, or Traffic Control Manual for Roadway Operations Field Edition are hereby deleted and replaced by all currently available books which make up the Ontario Traffic Manual.

GC 1.06 Final Acceptance

- .01 For the purposes of determining whether Final Acceptance has occurred, the Contract Administrator shall not take into account, in determining the discharge of the Contractor's obligations, any warranty obligation of the Contractor to the extent that the warranty extends beyond 24 months after Substantial Performance.

GC 1.07 Interpretation of Certain Words

- .01 The words "acceptable," "approval," "authorized," "considered necessary," "directed," "required," "satisfactory," or words of like import, shall mean approval of, directed, required, considered necessary, or authorized by and acceptable or satisfactory to the Contract Administrator, unless the context clearly indicates otherwise.

SECTION GC 2.0 - CONTRACT DOCUMENTS

GC 2.01 Reliance on Contract Documents

- .01 The Owner warrants that the information furnished in the Contract Documents can be relied upon with the following limitations or exceptions:
- a) Based on available information at the time of the contract, the location of all mainline underground Utilities that may affect the Work shall be shown to a tolerance of:
 - i. 1 m horizontal, and
 - ii. 0.3 m vertical
- .02 The Owner does not warrant or make any representation with respect to:
- a) interpretations of data or opinions expressed in any Subsurface Report available for the perusal of the Contractor, that are not included as part of the Contract Documents, and
 - b) other information specifically excluded from this warranty.

GC 2.02 Order of Precedence

- .01 In the event of any inconsistency or conflict in the contents of the following documents, such documents shall take precedence and govern in the following descending order:
- a) Agreement
 - b) Addenda
 - c) Special Provisions
 - d) Contract Drawings
 - e) Standard Specifications
 - f) Standard Drawings
 - g) Tender
 - h) Supplemental General Conditions
 - i) OPSS.MUNI 100 General Conditions of Contract
 - j) Working Drawings
- Later dates shall govern within each of the above categories of documents.
- .02 In the event of any conflict among or inconsistency in the information shown on Drawings, the following rules shall apply:
- a) Dimensions shown in figures on a Drawing shall govern where they differ from dimensions scaled from the same Drawing;
 - b) Drawings of larger scale shall govern over those of smaller scale;
 - c) Detailed Drawings shall govern over general Drawings; and

- d) Drawings of a later date shall govern over those of an earlier date in the same series.
- .03 In the event of any inconsistency or conflict in the contents of Standard Specifications the following descending order of precedence shall govern:
- a) Owner's Standard Specifications
 - b) Ontario Provincial Standard Specifications
 - c) Other standards referenced in OPSSs and OPSDs (e.g., CSA, CGSB, ASTM, and ANSI).
- .04 The Contract Documents are complementary, and what is required by any one shall be as binding as if required by all.

SECTION GC 3.0 - ADMINISTRATION OF THE CONTRACT

GC 3.01 Contract Administrator's Authority

- .01 The Contract Administrator shall be the Owner's representative during construction and until the issuance of the Completion Certificate or the issuance of the Final Acceptance Certificate, whichever is later. All instructions to the Contractor, including instructions from the Owner, shall be issued by the Contract Administrator. The Contract Administrator shall have the authority to act on behalf of the Owner only to the extent provided in the Contract Documents.
- .02 All claims, disputes and other matters in question relating to the performance and the quality of the Work or the interpretation of the Contract Documents shall be referred to the Contract Administrator in writing by the Contractor.
- .03 The Contract Administrator may inspect the Work for its conformity with the Plans and Standard Specifications, and to record the necessary data to establish payment quantities under the schedule of tender quantities and unit prices or to make an assessment of the value of the Work completed in the case of a lump sum price Contract.
- .04 The Contract Administrator shall determine the amounts owing to the Contractor under the Contract and shall issue certificates for payment in such amounts as provided for in section GC 8.0, Measurement and Payment.
- .05 The Contract Administrator shall, with reasonable promptness, review and take appropriate action upon the Contractor's submissions such as shop drawings, product data, and samples in accordance with the Contract Documents so as to not cause delay in the schedule.
- .06 The Contract Administrator shall investigate all allegations of a Change in the Work made by the Contractor and issue appropriate instructions.
- .07 The Contract Administrator shall prepare Change Directives and Change Orders for the Owner's approval.
- .08 Upon written application by the Contractor, the Contract Administrator and the Contractor shall jointly conduct an inspection of the Work to establish the date of Substantial Performance of the Work or the date of Completion of the Work or both.
- .09 The Contract Administrator shall be, in the first instance, the interpreter of the Contract Documents and the judge of the performance thereunder by both parties to the Contract. Interpretations and decisions of the Contract Administrator shall be consistent with the intent of the Contract Documents and, in making these decisions, the Contract Administrator shall not show partiality to either party.
- .10 The Contract Administrator shall have the authority to reject any part of the Work or Material that does not conform to the Contract Documents.
- .11 In the event that the Contract Administrator determines that any part of the Work performed by the Contractor is defective, whether the result of poor workmanship the use of defective Material or damage through carelessness or other act or omission of the Contractor and whether or not incorporated in the Work or otherwise fails to conform to the Contract Documents, then the Contractor shall if directed by the Contract Administrator promptly, as directed by the Contract Administrator, remove the Work and replace, make good, or re-execute the Work at no additional cost to the Owner.
- .12 Any part of the Work destroyed or damaged by such removals, replacements, or re-executions shall be made good, promptly, at no additional cost to the Owner.

- .13 If, in the opinion of the Contract Administrator, it is not expedient to correct defective Work or Work not performed in accordance with the Contract Documents, the Owner may deduct from monies otherwise due to the Contractor the difference in value between the Work as performed and that called for by the Contract Documents amount that will be determined in the first instance by the Contract Administrator.
- .14 Notwithstanding any inspections made by the Contract Administrator or the issuance of any certificates or the making of any payment by the Owner, the failure of the Contract Administrator to reject any defective Work or Material shall not constitute acceptance of defective Work or Material.
- .15 The Contract Administrator shall have the authority to temporarily suspend the Work for such reasonable time as may be necessary:
- a) to facilitate the checking of any portion of the Contractor's construction layout;
 - b) to facilitate the inspection of any portion of the Work; or
 - c) for the Contractor to remedy its non-compliance with any provisions of the Contract Documents.
- The Contractor shall not be entitled to any compensation for suspension of the Work in these circumstances.
- .16 The Owner has the right to terminate the Contract for wilful or persistent violation by the Contractor or its workers of any applicable laws or bylaws, including but not limited to, the Occupational Health and Safety Act legislation and regulations, Workplace Safety and Insurance Board Act, and Regulation 347 of the Environmental Protection Act.
- .17 If the Contract Administrator determines that any worker employed on the Work is incompetent, as defined by the Occupational Health and Safety Act, or is disorderly, then the Contract Administrator shall provide written notice to the Contractor and the Contractor shall immediately remove the worker from the Working Area. Such worker shall not return to the Working Area without the prior written consent of the Contract Administrator.

GC 3.02 Working Drawings

- .01 The Contractor shall arrange for the preparation of clearly identified and dated Working Drawings as called for by the Contract Documents.
- .02 The Contractor shall submit Working Drawings to the Contract Administrator with reasonable promptness and in orderly sequence so as to not cause delay in the Work. If either the Contractor or the Contract Administrator so requests, they shall jointly prepare a schedule fixing the dates for submission and return of Working Drawings. Working Drawings shall be submitted in printed form. At the time of submission the Contractor shall notify the Contract Administrator in writing of any deviations from the Contract Documents that exist in the Working Drawings.
- .03 The Contract Administrator shall review and return Working Drawings in accordance with an agreed upon schedule, or otherwise, with reasonable promptness so as not to cause delay.
- .04 The Contract Administrator's review shall be to check for conformity to the design concept and for general arrangement only and such review shall not relieve the Contractor of responsibility for errors or omissions in the Working Drawings or of responsibility for meeting all requirements of the Contract Documents, unless a deviation on the Working Drawings has been approved in writing by the Contract Administrator.

- .05 The Contractor shall make any changes in Working Drawings that the Contract Administrator may require to make the Working Drawings consistent with the Contract Documents and resubmit, unless otherwise directed by the Contract Administrator. When resubmitting, the Contractor shall notify the Contract Administrator in writing of any revisions other than those requested by the Contract Administrator.
- .06 Work related to the Working Drawings shall not proceed until the Working Drawings have been signed and dated by the Contract Administrator.
- .07 The Contractor shall keep one set of the reviewed Working Drawings, marked as above, at the site at all times.

GC 3.03 Right of the Contract Administrator to Modify Methods and Equipment

- .01 The Contractor shall, when requested in writing, make alterations in the method, Equipment, or work force at any time the Contract Administrator considers the Contractor's actions to be unsafe, or damaging to either the Work or existing facilities or the environment
- .02 The Contractor shall, when requested in writing, alter the sequence of its operations on the Contract so as to avoid interference with work being performed by others.
- .03 Notwithstanding the foregoing, the Contractor shall ensure that all necessary safety precautions and protection are maintained throughout the Work.

GC 3.04 Emergency Situations

- .01 The Contract Administrator has the right to determine the existence of an emergency situation and, when such an emergency situation is deemed to exist, the Contract Administrator 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 Contract Administrator may direct others to remedy the situation.
- .02 If the emergency situation was the fault of the Contractor, the remedial Work shall be done at the Contractor's expense. If the emergency situation was not the fault of the Contractor, the Owner shall pay for the remedial Work.

GC 3.05 Layout Information

- .01 The Contract Administrator shall provide background information, including without limitation, baseline and benchmark information, to facilitate the general location, alignment, elevation and layout of the Work.
- .02 The Contract Administrator shall provide pre and post construction inventories of all Monuments, etc. that are located within the Working Area.
- .03 The Owner shall be responsible only for the correctness of the layout information provided by the Contract Administrator.

GC 3.06 Extension of Contract Time

- .01 An application for an extension of Contract Time shall be made in writing by the Contractor to the Contract Administrator as soon as the need for such extension becomes evident and at least 15 Days prior to the expiration of the Contract Time. The application for an extension of Contract Time shall enumerate the reasons, and state the length of extension required.

- .02 Circumstances suitable for consideration of an extension of Contract Time include the following:
- a) Delays, subsection GC 3.07.
 - b) Changes in the Work, clause GC 3.10.01.
 - c) Extra Work, clause GC 3.10.02.
 - d) Additional Work, clause GC 3.10.03.
- .03 The Contract Administrator shall, in considering an application for an extension to the Contract Time, take into account whether the delays, Changes in the Work, Extra Work, or Additional Work involve a Controlling Operation.
- .04 The Contract Time shall be extended for such additional time as may be recommended by the Contract Administrator and deemed fair and reasonable by the Owner.
- .05 The terms and conditions of the Contract shall continue for such extension of Contract Time.

GC 3.07 Delays

- .01 If the Contractor is delayed in the performance of the Work by,
- a) war, blockades, and civil commotions;
 - b) errors in the Contract Documents;
 - c) an act or omission of the Owner or Contract Administrator, or anyone employed or engaged by them directly or indirectly, contrary to the provisions of the Contract Documents;
 - d) a stop work order issued by a court or public authority, provided that such order was not issued as the result of an act or omission of the Contractor or anyone employed or engaged by the Contractor directly or indirectly;
 - e) the Contract Administrator giving notice under section GC 7, Suspension of Work;
 - f) Abnormal Weather; or
 - g) archaeological finds, in accordance with subsection GC 3.15, Archaeological Finds,
- then the Contractor shall be reimbursed by the Owner for reasonable costs incurred by the Contractor as the result of such delay, provided that in the case of an application for an extension of Contract Time due to Abnormal Weather, the Contractor shall, with the Contractor's application, submit evidence from Environment Canada in support of such application. Extension of Contract Time may be granted in accordance with subsection GC 3.06, Extension of Contract Time.
- .02 If the Work is delayed by labour disputes, strikes or lock-outs, including lock-outs decreed or recommended to its members by a recognized contractor's association, of which the Contractor is a member or to which the Contractor is otherwise bound, which are beyond the Contractor's control, then the Contract Time shall be extended in accordance with subsection GC 3.06, Extension of Contract Time.

- .03 In no case shall the extension of Contract Time be less than the time lost as the result of the event causing the delay, unless a shorter extension is agreed to by the Contractor. The Contractor shall not be entitled to payment for costs incurred as the result of such delays unless such delays are the result of actions by the Owner.
- .04 The Contractor shall not be entitled to payment for the cost of delays incurred as a result of a dispute between the Contractor and Owner. The Contractor shall execute the Work and may pursue resolution of the dispute in accordance with subsection GC 3.13, Claims, Negotiations, Mediations.

GC 3.08 Assignment of Contract

- .01 The Contractor shall not assign the Contract, either in whole or in part, without the prior written consent of the Owner.

GC 3.09 Subcontracting by the Contractor

- .01 Subject to clause GC 3.09.03, Subcontracting by the Contractor, the Contractor may subcontract any part of the Work, in accordance with the Contract Documents and any limitations specified therein.
- .02 The Contractor shall notify the Contract Administrator in writing in 10 Days prior to the start of construction of the intention to subcontract. Such notification shall identify the part of the Work, and the Subcontractor with whom it is intended.
- .03 The Contract Administrator shall, within 5 Days of receipt of such notification, accept or reject the intended Subcontractor. The rejection shall be in writing and shall include the reasons for the rejection.
- .04 The Contractor shall not, without the written consent of the Owner, change a Subcontractor who has been engaged in accordance with this subsection.
- .05 The Contractor shall preserve and protect the rights of the Owner under the Contract Documents with respect to that part of the Work to be performed under subcontract and shall,
 - a) enter into agreements with the intended Subcontractors to require them to perform their Work in accordance with the Contract Documents; and
 - b) be as fully responsible to the Owner for acts and omissions of the Contractor's Subcontractors and of persons directly or indirectly employed by them as for acts and omissions of persons directly employed by the Contractor.
- .06 The Owner's consent to subcontracting by the Contractor shall not be construed to relieve the Contractor from any obligation under the Contract and shall not impose any liability upon the Owner. Nothing contained in the Contract Documents shall create a contractual relationship between a Subcontractor and the Owner.

GC 3.10 Changes

GC 3.10.01 Changes in the Work

- .01 The Owner, or the Contract Administrator where so authorized, may, by order in writing, make a Change in the Work without invalidating the Contract. The Contractor shall not be required to proceed with a Change in the Work until in receipt of a Change Order or Change Directive. Upon the receipt of such Change Order or Change Directive the Contractor shall proceed with the Change in the Work.

- .02 The Contractor may apply for an extension of Contract Time according to the terms of clause GC 3.06, Extension of Contract Time.
- .03 If the Change in the Work relates solely to quantities, payment for that part of the Work shall be made according to the conditions specified in clause GC 8.01.02, Variations in Tender Quantities. If the Change in the Work does not solely relate to quantities, then either the Owner or the Contractor may initiate negotiations upwards or downwards for the adjustment of the Contract price in respect of the Change in the Work pursuant to subsection GC 3.13, Claims, Negotiations, Mediation or payment may be made according to the conditions contained in clause GC 8.02.05, Payment on a Time and Material Basis.

GC 3.10.02 Extra Work

- .01 The Owner, or Contract Administrator where so authorized, may instruct the Contractor to perform Extra Work without invalidating the Contract. The Contractor shall not be required to proceed with the Extra Work until in receipt of a Change Order or Change Directive. Upon receipt of such Change Order or Change Directive the Contractor shall proceed with the Extra Work.
- .02 The Contractor may apply for an extension of Contract Time according to the terms of clause GC 3.06, Extension of Contract Time.
- .03 Either the Owner or Contractor may initiate negotiations upwards or downwards for the payment for the Extra Work pursuant to subsection GC 3.13, Claims, Negotiations, Mediation, or payment may be made according to the conditions contained in clause GC 8.02.05, Payment on a Time and Material Basis.

GC 3.10.03 Additional Work

- .01 The Owner, or Contract Administrator where so authorized, may request the Contractor to perform Additional Work without invalidating the Contract. If the Contractor agrees to perform Additional Work, the Contractor shall proceed with such Additional Work upon receipt of a Change Order.
- .02 The Contractor may apply for an extension of Contract Time according to the terms of subsection GC 3.06, Extension of Contract Time.
- .03 Payment for the Additional Work may be negotiated pursuant to subsection GC 3.13, Claims, Negotiations, Mediation, or payment may be made according to the conditions contained in clause GC 8.02.05, Payment on a Time and Material Basis.

GC 3.11 Notices

- .01 Any notice permitted or required to be given to the Contract Administrator or the Superintendent in respect of the Work shall be deemed to have been given to and received by the addressee on the date of delivery if delivered by hand, email, or by facsimile transmission and on the fifth Day after the date of mailing, if sent by mail.
- .02 The Contractor and the Owner shall provide each other with the mail and email addresses; cell phone, and telephone numbers for the Contract Administrator and the Superintendent at the commencement of the Work, and update as necessary.
- .03 In the event of an emergency situation or other urgent matter the Contract Administrator or the Superintendent may give a verbal notice, provided that such notice is confirmed in writing within 2 Days.
- .04 Any notice permitted or required to be given to the Owner or the Contractor shall be given in accordance with the notice provision of the Contract.

GC 3.12 Use and Occupancy of the Work Prior to Substantial Performance

- .01 Where it is not contemplated elsewhere in the Contract Documents, the Owner may use or occupy the Work or any part thereof prior to Substantial Performance, provided that at least 30 Days written notice has been given to the Contractor.
- .02 The use or occupancy of the Work or any part thereof by the Owner prior to Substantial Performance shall not constitute an acceptance of the Work or parts so occupied. In addition, the use or occupancy of the Work shall not relieve the Contractor or the Contractor's Surety from any liability that has arisen, or may arise, from the performance of the Work in accordance with the Contract Documents. The Owner shall be responsible for any damage that occurs because of the Owner's use or occupancy. Such use or occupancy of any part of the Work by the Owner does not waive the Owner's right to charge the Contractor liquidated damages in accordance with the terms of the Contract.

GC 3.13 Claims, Negotiations, Mediation

GC 3.13.01 Continuance of the Work

- .01 Unless the Contract has been terminated or completed, the Contractor shall in every case, after serving or receiving any notification of a claim or dispute, verbal or written, continue to proceed with the Work with due diligence and expedition. It is understood by the parties that such action shall not jeopardize any claim it may have.

GC 3.13.02 Record Keeping

- .01 Immediately upon commencing Work that may result in a claim, the Contractor shall keep Daily Work Records during the course of the Work, sufficient to substantiate the Contractor's claim, and the Contract Administrator shall keep Daily Work Records to be used in assessing the Contractor's claim, all in accordance with clause GC 8.02.07, Records.
- .02 The Contractor and the Contract Administrator shall attempt to reconcile their respective Daily Work Records on a daily basis, to simplify review of the claim, when submitted. If the Contractor and the Contract Administrator fail to reconcile their respective Daily Work Records, then the Contractor shall submit its Daily Work Records as part of its claim, whereby the resolution of the dispute about the Daily Work Records shall not be resolved until there is a resolution of the claim.
- .03 The keeping of Daily Work Records by the Contract Administrator or the reconciling of such Daily Work Records with those of the Contractor shall not be construed to be acceptance of the claim.

GC 3.13.03 Claims Procedure

- .01 The Contractor shall give verbal notice of any situation that may lead to a claim for additional payment immediately upon becoming aware of the situation.
- .02 The Contractor shall provide written notice within 7 Days of the commencement of any part of the Work that may be affected by the situation.
- .03 The Contractor shall submit detailed claims as soon as reasonably possible and in any event no later than 30 Days or such additional/other/longer time as mutually agreed after completion of the Work affected by the situation. The detailed claim shall:
 - a) identify the item or items in respect of which the claim arises;

- b) state the grounds, contractual or otherwise, upon which the claim is made; and
 - c) include the Records maintained by the Contractor supporting such claim.
- .04 Within 30 Days of the receipt of the Contractor's detailed claim, the Contract Administrator may request the Contractor to submit any further and other particulars as the Contract Administrator considers necessary to assess the claim. The Contractor shall submit the requested information within 30 Days of receipt of such request.
- .05 Within 90 Days of receipt of the detailed claim, the Contract Administrator shall advise the Contractor, in writing, of the Contract Administrator's opinion with regard to the validity of the claim.

GC 3.13.04 Negotiations

- .01 The parties shall make all reasonable efforts to resolve their dispute by amicable negotiations and agree to provide, without prejudice, open and timely disclosure of relevant facts, information, and documents to facilitate these negotiations.
- .02 Should the Contractor disagree with the opinion given in clause GC 3.13.03.05, with respect to any part of the claim, the Contract Administrator shall enter into negotiations with the Contractor to resolve the matters in dispute. Where a negotiated settlement cannot be reached and it is agreed that payment cannot be made on a Time and Material basis in accordance with clause GC 8.02.05, Payment on a Time and Material Basis, the parties shall proceed in accordance with clause GC 3.13.05, Mediation, or subsection GC 3.14, Arbitration.
- .03 Prior to the expiry of 30 Business Days from the date of receipt of the Contractors claim, the Contract Administrator shall provide a written response to the Contractor stating the Contract Administrator's final price for the Change Order and an explanation of the rationale and basis of the Contract Administrator's position which shall be deemed to be the initial site response.

GC 3.13.05 Mediation

- .01 If a claim is not resolved satisfactorily through the negotiation stage noted in clause GC 3.13.04, Negotiations, within a period of 30 Days following the opinion given in clause GC 3.13.03.05, and the Contractor wishes to pursue the issue further, the parties may, upon mutual agreement, utilize the services of an independent third party mediator.
- .02 The mediator shall be mutually agreed upon by the Owner and Contractor.
- .03 The mediator shall be knowledgeable regarding the area of the disputed issue. The mediator shall meet with the parties together or separately, as necessary, to review all aspects of the issue. In a final attempt to assist the parties in resolving the issue themselves prior to proceeding to arbitration the mediator shall provide, without prejudice, a non-binding recommendation for settlement.
- .04 The review by the mediator shall be completed within 90 Days following the opinion given in clause GC 3.13.03.05.
- .05 Each party is responsible for its own costs related to the use of the third party mediator process. The cost of the third party mediator shall be equally shared by the Owner and Contractor.

GC 3.13.06 Payment

- .01 Payment of the claim shall be made no later than 30 Days after the date of resolution of the claim or dispute. Such payment shall be made according to the terms of section GC 8.0, Measurement and Payment.

GC 3.13.07 Rights of Both Parties

- .01 It is agreed that no action taken under subsection GC 3.13, Claims, Negotiations, Mediation, by either party shall be construed as a renunciation or waiver of any of the rights or recourse available to the parties, provided that the requirements set out in this subsection are fulfilled.

GC 3.14 Arbitration

GC 3.14.01 Conditions of Arbitration

- .01 If a claim is not resolved satisfactorily through the negotiation stage noted in clause GC 3.13.04, Negotiations, or the mediation stage noted in clause GC 3.13.05, Mediation, either party may invoke the provisions of subsection GC 3.14, Arbitration, by giving written notice to the other party.
- .02 Notification that arbitration shall be implemented to resolve the issue shall be communicated in writing as soon as possible and no later than 60 Days following the opinion given in clause GC 3.13.03.05. Where the use of a third party mediator was implemented, notification shall be within 120 Days of the opinion given in clause GC 3.13.03.05.
- .03 The parties shall be bound by the decision of the arbitrator.
- .04 The rules and procedures of the Arbitration Act, 1991, S.O. 1991, c.17, as amended, shall apply to any arbitration conducted hereunder except to the extent that they are modified by the express provisions of subsection GC 3.14, Arbitration.

GC 3.14.02 Arbitration Procedure

- .01 The following provisions are to be included in the agreement to arbitrate and are subject only to such right of appeal as exist where the arbitrator has exceeded his or her jurisdiction or have otherwise disqualified him or herself:
- a) All existing actions in respect of the matters under arbitration shall be stayed pending arbitration;
 - b) All outstanding claims and matters to be settled are to be set out in a schedule to the agreement. Only such claims and matters as are in the schedule shall be arbitrated; and
 - c) Before proceeding with the arbitration, the Contractor shall confirm that all matters in dispute are set out in the schedule.

GC 3.14.03 Appointment of Arbitrator

- .01 The arbitrator shall be mutually agreed upon by the Owner and Contractor to adjudicate the dispute.
- .02 Where the Owner and Contractor cannot agree on a sole arbitrator within 30 Days of the notification of arbitration noted in clause GC 3.14.01.02, the Owner and the Contractor shall each choose an appointee within 37 Days of the notice of arbitration.
- .03 The appointees shall mutually agree upon an arbitrator to adjudicate the dispute within 15 Days after the last appointee was chosen or they shall refer the matter to the ADR Institute of Ontario (ADRIO), which may select an arbitrator to adjudicate the dispute within 7 Days of being requested to do so.
- .04 The arbitrator shall not be interested financially in the Contract nor in either party's business and shall not be employed by either party.
- .05 The arbitrator may appoint independent experts and any other persons to assist him or her.

- .06 The arbitrator is not bound by the rules of evidence that govern the trial of cases in court but may hear and consider any evidence that the arbitrator considers relevant.
- .07 The hearing shall commence within 90 Days of the appointment of the arbitrator.

GC 3.14.04 Costs

- .01 The arbitrator's fee shall be equally shared by the Owner and the Contractor.
- .02 The fees of any independent experts and any other persons appointed to assist the arbitrator shall be shared equally by the Owner and the Contractor.
- .03 The arbitration hearing shall be held in a place mutually agreed upon by both parties or in the event the parties do not agree, a site shall be chosen by the arbitrator. The cost of obtaining appropriate facilities shall be shared equally by the Owner and the Contractor.
- .04 The arbitrator may, in his or her discretion, award reasonable costs, related to the arbitration.

GC 3.14.05 The Decision

- .01 The reasoned decision shall be made in writing within 90 Days of the conclusion of the hearing. An extension of time to make a decision may be granted with consent of both parties. Payment shall be made in accordance with clause GC 3.13.06, Payment.

GC 3.15 Archaeological Finds

- .01 If the Contractor's operations expose any items that may indicate an archaeological find, such as but not limited to building remains, hardware, accumulations of bones, pottery, or arrowheads, the Contractor shall immediately notify the Contract Administrator and suspend operations within the area identified by the Contract Administrator. Notification may be verbal provided that such notice is confirmed in writing within 2 Days. Work shall remain suspended within that area until otherwise directed by the Contract Administrator in writing, in accordance with subsection GC 7.09, Suspension of Work.
- .02 Any delay in the completion of the Contract that is caused by such a suspension of Work shall be considered to be beyond the Contractor's control in accordance with clause GC 3.07.01.
- .03 Any Work directed or authorized in connection with an archaeological find shall be considered as Extra Work in accordance with clause GC 3.10.02, Extra Work.
- .04 The Contractor shall take all reasonable action to minimize additional costs that may accrue as a result of any work stoppage.

SECTION GC 4.0 - OWNER'S RESPONSIBILITIES AND RIGHTS

GC 4.01 Working Area

- .01 The Owner shall acquire all property rights that are deemed necessary by the Owner for the construction of the Work, including temporary working easements, and shall indicate the full extent of the Working Area on the Contract Drawings.

GC 4.02 Approvals and Permits

- .01 The Owner shall pay for all plumbing and building permits.
- .02 The Owner shall obtain and pay for all permits, licences, and certificates solely required for the design of the Work.

GC 4.03 Management and Disposition of Materials

- .01 The Owner shall identify in the Contract Documents the Materials to be moved within or removed from the Working Area and any characteristics of those Materials that necessitates special Materials management and disposition.
- .02 In accordance with regulations under the Occupational Health and Safety Act, R.S.O. 1990, c.O.1, as amended, the Owner advises that,
 - a) the designated substances silica, lead, and arsenic are generally present throughout the Working Area occurring naturally or as a result of vehicle emissions;
 - b) the designated substance asbestos may be present in cement products, asphalt, and conduits for Utilities;
 - c) the following hazardous materials are ordinarily present in construction activities: limestone, gypsum, marble, mica, and Portland cement; and
 - d) exposure to these substances may occur as a result of activities by the Contractor such as sweeping, grinding, crushing, drilling, blasting, cutting, and abrasive blasting.
- .03 The Owner shall identify in the Contract Documents any designated substances or hazardous materials other than those identified above and their location in the Working Area.
- .04 If the Owner or Contractor discovers or is advised of the presence of designated substances or hazardous Materials that are in addition to those listed in clause GC 4.03.02, or not clearly identified in the Contract Documents according to clause GC 4.03.03, then verbal notice shall be provided to the other party immediately with written confirmation within 2 Days. The Contractor shall stop Work in the area immediately and shall determine the necessary steps required to complete the Work in accordance with applicable legislation and regulations.
- .05 The Owner shall be responsible for any reasonable additional costs of removing, managing and disposing of any Material not identified in the Contract Documents, or where conditions exist that could not have been reasonably foreseen at the time of tendering. All work under this paragraph shall be deemed to be Extra Work.

- .06 Prior to commencement of the Work, the Owner shall provide to the Contractor a list of those products controlled under the Workplace Hazardous Materials Information System (WHMIS), that the Owner may supply or use on the Contract, together with copies of the Safety Data Sheets for these products. All containers used in the application of products controlled under WHMIS shall be labelled. The Owner shall notify the Contractor in writing of changes to the list and provide relevant Safety Data Sheets.
- .07 Unless expressly permitted in the Contract Documents, the Contractor shall not bring onto the Work Area any designated substance or hazardous Material per OHSA without the prior written authorization of the Contract Administrator.
- .08 The Contractor shall use all reasonable care to avoid spilling or disturbing any designated substances or hazardous Material per OHSA.

GC 4.04 Construction Affecting Railway Property

- .01 The Owner shall pay the costs of all flagging and other traffic control measures required and provided by the railway company unless such costs are solely a function of the Contractor's chosen method of completing the Work.
- .02 Every precaution shall be taken by the Contractor to protect all railway property at track crossings; or otherwise, on which construction operations are to take place in accordance with the terms of this Contract.
- .03 The Contractor shall be required to conduct the construction operations in such a manner as to avoid a possibility of damaging any railway property in the vicinity of the Works. Every reasonable precaution shall be taken by the Contractor to ensure the safety of the workers, Subcontractors, and Equipment, as well as railway property throughout the duration of the Contract.

GC 4.05 Default by the Contractor

- .01 If the Contractor fails to commence the Work within 14 Days of a formal order to commence Work signed by the Contract Administrator or, upon commencement of the Work, should neglect to prosecute the Work properly or otherwise fails to comply with the requirements of the Contract and, if the Contract Administrator has given a written statement to the Owner and Contractor that sufficient cause exists to justify such action, the Owner may, without prejudice to any other right or remedy the Owner may have, notify the Contractor in writing that the Contractor is in default of the Contractor's contractual obligations and instruct the Contractor to correct the default in the 5 Working Days immediately following the receipt of such notice.
- .02 If the Contractor is adjudged bankrupt, or makes a general assignment for the benefit of creditors because of the Contractor's insolvency or if a receiver is appointed because of the Contractor's insolvency, the Owner may, without prejudice to any other right or remedy the Owner may have, by giving the Contractor or receiver or trustee in bankruptcy notice in writing, terminate the Contract.

GC 4.06 Contractor's Right to Correct a Default

- .01 The Contractor shall have the right within the 5 Working Days following the receipt of a notice of default to correct the default and provide the Owner with satisfactory proof that appropriate corrective measures have been taken.
- .02 If the Owner determines that the correction of the default cannot be completed within the 5 Working Days following receipt of the notice, the Contractor shall not be in default if the Contractor,
 - a) commences the correction of the default within the 5 Working Days following receipt of the notice;

- b) provides the Owner with a schedule acceptable to the Owner for the progress of such correction; and
- c) completes the correction in accordance with such schedule.

GC 4.07 Owner's Right to Correct Default

- .01 If the Contractor fails to correct the default within the time specified in subsection GC 4.06, Contractor's Right to Correct a Default, or subsequently agreed upon, the Owner, without prejudice to any other right or remedy the Owner may have, may correct such default and deduct the cost thereof, as certified by the Contract Administrator, from any payment then or thereafter due to the Contractor.

GC 4.08 Termination of Contractor's Right to Continue the Work

- .01 Where the Contractor fails to correct a default within the time specified in subsection GC 4.06, Contractor's Right to Correct a Default, or subsequently agreed upon, the Owner, without prejudice to any other right or remedy the Owner may have, may terminate the Contractor's right to continue the Work in whole or in part by giving written notice to the Contractor.
- .02 If the Owner terminates the Contractor's right to continue with the Work in whole or in part, the Owner shall be entitled to,
 - a) take possession of the Working Area or that portion of the Working Area devoted to that part of the Work terminated;
 - b) utilize any Material within the Working Area;
 - d) withhold further payments to the Contractor with respect to the Work or the portion of the Work withdrawn from the Contractor until the Work or portion thereof withdrawn is completed;
 - d) charge the Contractor the additional cost over the Contract price of completing the Work or portion thereof withdrawn from the Contractor, as certified by the Contract Administrator and any additional compensation paid to the Contract Administrator for such additional service arising from the correction of the default;
 - e) charge the Contractor a reasonable allowance, as determined by the Contract Administrator, to cover correction to the Work performed by the Contractor that may be required under subsection GC 7.16, Warranty;
 - f) charge the Contractor for any damages the Owner sustained as a result of the default; and
 - g) charge the Contractor the amount by which the cost of corrections to the Work under subsection GC 7.16, Warranty, exceeds the allowance provided for such corrections.

GC 4.09 Final Payment to Contractor

- .01 If the Owner's cost to correct and complete the Work in whole or in part is less than the amount withheld from the Contractor under subsection GC 4.08, Termination of Contractor's Right to Continue the Work, the Owner shall pay the balance to the Contractor as soon as the final accounting for the Contract is complete.

GC 4.10 Termination of the Contract

- .01 Where the Contractor is in default of the Contract the Owner shall, without prejudice to any other right or remedy the Owner may have, terminate the Contract by giving written notice of termination to the Contractor, the Surety, and any trustee or receiver acting on behalf of the Contractor's estate or creditors.
- .02 If the Owner elects to terminate the Contract, the Owner shall provide the Contractor and the trustee or receiver with a complete accounting to the date of termination.

GC 4.11 Continuation of Contractor's Obligations

- .01 The Contractor's obligation under the Contract as to quality, correction, and warranty of the Work performed prior to the time of termination of the Contract or termination of the Contractor's right to continue with the Work in whole or in part shall continue to be in force after such termination.

GC 4.12 Use of Performance Bond

- .01 If the Contractor is in default of the Contract and the Contractor has provided a Performance Bond, the provisions of section GC 4.0, Owner's Responsibilities and Rights, shall be exercised in accordance with the conditions of the Performance Bond.

GC 4.13 Payment Adjustment

- .01 If any situation should occur in the performance of the Work that would result in a Change in the Work, the Owner shall be entitled to an adjustment and those adjustments shall be managed in accordance with clause GC 3.10.01, Changes in the Work.

SECTION GC 5.0 - MATERIAL

GC 5.01 Supply of Material

- .01 All Material necessary for the proper completion of the Work, except that listed as being supplied by the Owner, shall be supplied by the Contractor. The Contract price for the appropriate tender items shall be deemed to include full compensation for the supply and delivery of such Material.

GC 5.02 Quality of Material

- .01 All Material supplied by the Contractor shall be new, unless otherwise specified in the Contract Documents.
- .02 Material supplied by the Contractor shall conform to the requirements of the Contract.
- .03 As specified in the Contract Documents or as requested by the Contract Administrator, the Contractor shall make available, for inspection or testing, a sample of any Material to be supplied by the Contractor.
- .04 The Contractor shall obtain for the Contract Administrator the right to enter onto the premises of the Material manufacturer or supplier to carry out such inspection, sampling, and testing as specified in the Contract Documents or as requested by the Contract Administrator.
- .05 The Contractor shall notify the Contract Administrator of the sources of supply sufficiently in advance of the Material shipping dates to enable the Contract Administrator to perform the required inspection, sampling, and testing.
- .06 The Owner shall not be responsible for any delays to the Contractor's operations where the Contractor fails to give sufficient advance notice to the Contract Administrator to enable the Contract Administrator to carry out the required inspection, sampling, and testing before the scheduled shipping date.
- .07 The Contractor shall not change the source of supply of any Material without the written authorization of the Contract Administrator.
- .08 Material that is not specified shall be of a quality best suited to the purpose required, and the use of such Material shall be subject to the approval of the Contract Administrator.
- .09 All Material inspection, sampling, and testing shall be carried out on random basis in accordance with the standard inspection or testing methods required for the Material. Any approval given by the Contract Administrator for the Materials to be used in the Work based upon the random method shall not relieve the Contractor from the responsibility of incorporating Material that conforms to the Contract Documents into the Work or properly performing the Contract and of any liability arising from the failure to properly perform as specified in the Contract Documents.

GC 5.03 Rejected Material

- .01 Rejected Material shall be removed from the Working Area expeditiously after the notification to that effect from the Contract Administrator. Where the Contractor fails to comply with such notice, the Contract Administrator may cause the rejected Material to be removed from the Working Area and disposed of, in what the Contract Administrator considers to be the most appropriate manner, and the Contractor shall pay the costs of disposal and the appropriate overhead charges.

GC 5.04**Substitutions**

- .01 Where the Contract Documents require the Contractor to supply a Material designated by a trade or other name, the Tender shall be based only upon supply of the Material so designated, that shall be regarded as the standard of quality required by the Contract Documents. After the acceptance of the Tender, the Contractor may apply to the Contract Administrator to substitute another Material identified by a different trade or other name for the Material designated as aforesaid. The application shall be in writing and shall state the price for the proposed substitute Material designated as aforesaid, and such other information as the Contract Administrator may require.
- .02 Rulings on a proposed substitution shall not be made prior to the acceptance of the Tender. Substitutions shall not be made without the prior approval of the Contract Administrator. The approval or rejection of a proposed substitution shall be at the discretion of the Contract Administrator.
- .03 If the proposed substitution is approved by the Contract Administrator, the Contractor shall be entitled to the first \$1,000 of the aggregate saving in cost by reason of such substitution and to 50% of any additional saving in cost in excess of such \$1,000. Each such approval shall be conveyed to the Contractor in writing or by issuance of a Certificate of Equality on the Owner's standard form of "Certification of Equality" and, if any adjustment to the Contract price is made by reason of such substitution, a Change Order shall be issued as well.

GC 5.05**Owner Supplied Material****GC 5.05.01****Ordering of Excess Material**

- .01 Where Material is supplied by the Owner and where this Material is ordered by the Contractor in excess of the amount specified to complete the Work, such excess Material shall become the property of the Contractor on completion of the Work and shall be charged to the Contractor at cost plus applicable overheads.

GC 5.05.02**Care of Material**

- .01 The Contractor shall, in advance of receipt of shipments of Material supplied by the Owner, provide adequate and proper storage facilities acceptable to the Contract Administrator, and on the receipt of such Material shall promptly place it in storage, except where it is to be incorporated forthwith into the Work.
- .02 The Contractor shall be responsible for acceptance of Material supplied by the Owner, at the specified delivery point and for its safe handling and storage. If such Material is damaged while under the control of the Contractor, it shall be replaced or repaired by the Contractor at no expense to the Owner, and to the satisfaction of the Contract Administrator. If such Material is rejected by the Contract Administrator for reasons that are not the fault of the Contractor, it shall remain in the care and at the risk of the Contractor until its disposition has been determined by the Contract Administrator.
- .03 Where Material supplied by the Owner arrives at the delivery point in a damaged condition or where there are discrepancies between the quantities received and the quantities shown on the bills of lading, the Contractor shall immediately report such damage or discrepancies to the Contract Administrator who shall arrange for an immediate inspection of the shipment and provide the Contractor with a written release from responsibility for such damage or deficiencies. Where damage or deficiencies are not so reported, it shall be assumed that the shipment arrived in good condition and order, and any damage or deficiencies reported thereafter shall be made good by the Contractor at no extra cost to the Owner.

- .04 The full amount of Material supplied by the Owner in each shipment shall be accounted for by the Contractor and such Material shall be at the risk of the Contractor after taking delivery. Such Material shall not, except with the written permission of the Contract Administrator, be used by the Contractor for purposes other than the performance of the Work under the Contract.
- .05 Empty reels, crates, containers, and other type of packaging from Material supplied by the Owner shall become the property of the Contractor when they are no longer required for their original purpose and shall be disposed of by the Contractor at the Contractor's expense unless otherwise specified in the Contract Documents.
- .06 Immediately upon receipt of each shipment, the Contractor shall provide the Contract Administrator copies of bills of lading, or such other documentation the Contract Administrator may require to substantiate and reconcile the quantities of Material received.
- .07 Where Material supplied by the Owner is ordered and stockpiled prior to the award of the Contract, the Contractor shall, at no extra cost to the Owner, immediately upon commencement of operations, check the Material, report any damage or deficiencies to the Contract Administrator and take charge of the Material at the stockpile site. Where damage or deficiencies are not so recorded by the Contractor, it shall be assumed that the stockpile was in good condition and order when the Contractor took charge of it, and any damage or deficiencies reported thereafter shall be made good by the Contractor at no extra cost to the Owner.

SECTION GC 6.0 - INSURANCE, PROTECTION AND DAMAGE

GC 6.01 Protection of Work, Persons and Property

- .01 The Contractor, the Contractor's agents, and all workers employed by or under the control of the Contractor, including Subcontractors, shall protect the Work, persons, and property from damage or injury. The Contractor shall be responsible for all losses and damage that may arise as the result of the Contractor's operations under the Contract, unless indicated to the contrary below.
- .02 The Contractor is responsible for the full cost of any necessary temporary protective Work and the restoration of all damage where the Contractor damages the Work or property in the performance of the Contract. If the Contractor is not responsible for the damage that occurs to the Work or property, the Contractor shall restore such damage, and such Work and payment shall be administered according to these General Conditions.
- .03 The Contractor shall immediately inform the Contract Administrator of all damage and injuries that occur during the term of the Contract. The Contractor shall then investigate and report back to the Contract Administrator within 15 Days of occurrence of incident, or as soon as possible. The Contract Administrator may conduct its own investigation and the Contractor shall provide all assistance to the Contract Administrator as may be necessary for that purpose.
- .04 The Contractor shall not be responsible for loss and damage that occurs as a result of,
 - a) war;
 - b) blockades and civil commotions;
 - c) errors in the Contract Documents; or
 - d) acts or omissions of the Owner, the Contract Administrator, their agents and employees, or others not under the control of the Contractor, but within the Working Area with the Owner's permission.
- .05 The Contractor and the Contractor's Surety shall not be released from any term or provision of any responsibility, obligation, or liability under the Contract or waive or impair any of the rights of the Owner, except by a release duly executed by the Owner.

GC 6.02 Indemnification

- .01 The Contractor shall indemnify and hold harmless the Owner and the Contract Administrator, their elected officials, agents, officers, and employees from and against all claims, demands, losses, expenses, costs, damages, actions, suits, or proceedings by third parties, hereinafter called "claims", directly or indirectly arising or alleged to arise out of the performance of or the failure to perform the Work, provided such claims are,
 - a) attributable to bodily injury, sickness, disease, or death or to damage to or destruction of tangible property;
 - b) caused by negligent acts or omissions of the Contractor or anyone for whose acts the Contractor may be liable; and
 - c) 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 or, where so specified in the Contract Documents, from the date of certification of Final Acceptance.

- .02 The Contractor shall indemnify and hold harmless the Owner from all and every claim for damages, royalties or fees for the infringement of any patented invention or copyright occasioned by the Contractor in connection with the Work performed or Material furnished by the Contractor under the Contract.
- .03 The Owner expressly waives the right to indemnity for claims other than those stated in clauses GC 6.02.01 and GC 6.02.02.
- .04 The Owner shall indemnify and hold harmless the Contractor, their elected officials, agents, officers, and employees from and against all claims, demands, losses, expenses, costs, damages, actions, suits, or proceedings arising out of the Contractor's performance of the Contract that are attributable to a lack of or defect in title or an alleged lack of or defect in title to the Working Area.
- .05 The Contractor expressly waives the right to indemnity for claims other than those stated in clause GC 6.02.04.

GC 6.03 Contractor's Insurance

GC 6.03.01 General

- .01 Without restricting the generality of subsection GC 6.02, Indemnification, the Contractor shall provide, maintain, and pay for the insurance coverages listed under clauses GC 6.03.02 and GC 6.03.03. Insurance coverage in clauses GC 6.03.04, GC 6.03.05, and GC 6.03.06 shall only apply when so specified in the Contract Documents.
- .02 The Contractor shall provide the Contract Administrator with an original Certificate of Insurance for each type of insurance coverage that is required by the Contract Documents. The Contractor shall ensure that the Contract Administrator is, at all times in receipt of a valid Certificate of Insurance for each type of insurance coverage, in such amounts as specified in the Contract Documents. The Contractor will not be permitted to commence Work until the Contract Administrator is in receipt of such proof of insurance. The Contract Administrator may withhold payments of monies due to the Contractor until the Contractor has provided the Contract Administrator with original valid Certificates of Insurance as required by the provisions of the Contract Documents.

GC 6.03.02 Commercial General Liability Insurance

- .01 Commercial General Liability Insurance shall be in the name of the Contractor, with the Owner and the Contract Administrator named as additional insureds, with limits of not less than five million dollars inclusive per occurrence for bodily injury, death, and damage to property including loss of use thereof. The insurance shall be provided in a form acceptable to the Owner.
- .02 Approval of this insurance shall be conditional upon the Contractor obtaining the services of an insurer licensed to underwrite insurance in the Province of Ontario and obtaining the insurer's certificate of equivalency to the required insurance.
- .03 The Contractor shall submit annually to the Owner, proof of continuation of the completed operations coverage and, if the Contractor fails to do so, the limitation period for claiming indemnity described in clause GC 6.02.01 c), shall not be binding on the Owner.
- .04 Should the Contractor decide not to employ Subcontractors for operations requiring the use of explosives for blasting, pile driving or caisson work, removal or weakening of support of property building or land, the Commercial General Liability Insurance shall include the appropriate endorsements.

- .05 The policies shall be endorsed to provide the Owner with not less than 30 Days written notice in advance of cancellation, termination, or material change.
- .06 "Claims Made" insurance policies shall not be permitted.

GC 6.03.03 Automobile Liability Insurance

- .01 Automobile liability insurance in respect of licensed vehicles shall have limits of not less than five million dollars inclusive per occurrence for bodily injury, death and damage to property, in the following forms endorsed to provide the Owner with not less than 30 Days written notice in advance of any cancellation, termination, or material change.
 - a) standard non-owned automobile policy including standard contractual liability endorsement, and
 - b) standard owner's form automobile policy providing third party liability and accident benefits insurance and covering licensed vehicles owned or operated by the Contractor.

GC 6.03.04 Aircraft and Watercraft Liability Insurance

GC 6.03.04.01 Aircraft Liability Insurance

- .01 Aircraft liability insurance with respect to owned or non-owned aircraft used directly or indirectly in the performance of the Work, including use of additional premises, shall be subject to limits of not less than five million dollars inclusive per occurrence for bodily injury, death, and damage to property including loss of use thereof, and limits of not less than five million dollars for aircraft passenger hazard. Such insurance shall be in a form acceptable to the Owner. The policies shall be endorsed to provide the Owner with not less than 30 Days written notice in advance of cancellation, change, or amendment restricting coverage.

6.03.04.02 Watercraft Liability Insurance

- .01 Watercraft liability insurance with respect to owned or non-owned watercraft used directly or indirectly in the performance of the Work, including use of additional premises, shall be subject to limits of not less than five million dollars inclusive per occurrence for bodily injury, death, and damage to property including loss of use thereof. Such insurance shall be in a form acceptable to the Owner. The policies shall be endorsed to provide the Owner with not less than 30 Days written notice in advance of cancellation, change, or amendment restricting coverage.

GC 6.03.05 Property and Boiler Insurance

GC 6.03.05.01 Property Insurance

- .01 All risks property insurance shall be in the name of the Contractor, with the Owner and the Contract Administrator named as additional insureds, insuring not less than the sum of the amount of the Contract price and the full value, as may be stated in the Contract Documents, of Material that is specified to be provided by the Owner for incorporation into the Work.

GC 6.03.05.02 Boiler Insurance

- .01 Boiler insurance insuring the interests of the Contractor, the Owner and the Contract Administrator for not less than the replacement value of boilers and pressure vessels forming part of the Work, shall be in a form acceptable to the Owner.

GC 6.03.05.03**Use and Occupancy of the Work Prior to Completion**

- .01 Should the Owner wish to use or occupy part or all of the Work prior to Substantial Performance, the Owner shall give 30 Days written notice to the Contractor of the intended purpose and extent of such use or occupancy. Prior to such use or occupancy, the Contractor shall notify the Owner in writing of the additional premium cost, if any, to maintain property and boiler insurance, which shall be at the Owner's expense. If because of such use or occupancy the Contractor is unable to provide coverage, the Owner upon written notice from the Contractor and prior to such use or occupancy shall provide, maintain, and pay for property and boiler insurance insuring the full value of the Work, including coverage for such use or occupancy, and shall provide the Contractor with proof of such insurance. The Contractor shall refund to the Owner the unearned premiums applicable to the Contractor's policies upon termination of coverage.
- .02 The policies shall provide that in the event of a loss or damage, payment shall be made to the Owner and the Contractor as their respective interests may appear. The Contractor shall act on behalf of both the Owner and the Contractor for the purpose of adjusting the amount of such loss or damage payment with the insurers. When the extent of the loss or damage is determined, the Contractor shall proceed to restore the Work. Loss or damage shall not affect the rights and obligations of either party under the Contract, except that the Contractor shall be entitled to such reasonable extension of Contract Time relative to the extent of the loss or damage as the Contract Administrator may decide in consultation with the Contractor.

GC 6.03.05.04**Payment for Loss or Damage**

- .01 The Contractor shall be entitled to receive from the Owner, in addition to the amount due under the Contract, the amount at which the Owner's interest in restoration of the Work has been appraised, such amount to be paid as the restoration of the Work proceeds, and in accordance with the requirements of section GC 8.0, Measurement and Payment. In addition, the Contractor shall be entitled to receive from the payments made by the insurers the amount of the Contractor's interest in the restoration of the Work.
- .02 The Contractor shall be responsible for deductible amounts under the policies, except where such amounts may be excluded from the Contractor's responsibility by the terms of this Contract.
- .03 In the event of a loss or damage to the Work arising from the action or omission of the Owner or others, the Owner shall pay the Contractor the cost of restoring the Work as the restoration of the Work proceeds and in accordance with the requirements of section GC 8.0, Measurement and Payment.

GC 6.03.06**Contractor's Equipment Insurance**

- .01 All risks Contractor's Equipment insurance covering construction equipment used by the Contractor for the performance of the Work, including boiler insurance on temporary boilers and pressure vessels, shall be in a form acceptable to the Owner and shall not allow subrogation claims by the insurer against the Owner. The policies shall be endorsed to provide the Owner with not less than 30 Days written notice in advance of cancellation, change, or amendment restricting coverage. Subject to satisfactory proof of financial capability by the Contractor for self-insurance of the Contractor's Equipment, the Owner agrees to waive the equipment insurance requirement, and for the purpose of this Contract, the Contractor shall be deemed to be insured. This policy shall be amended to provide permission for the Contractor to grant prior releases with respect to damage to the Contractor's Equipment.

GC 6.03.07 Insurance Requirements and Duration

- .01 Each insurance policy as noted in the Contract Documents shall be in effect from the date of commencement of the Work until 10 Days after the date of Final Acceptance of the Work, as set out in the Final Acceptance Certificate.
- .02 The Contractor shall provide the Owner, on a form acceptable to the Owner, proof of insurance prior to commencement of the Work and signed by the underwriter or the broker.
- .03 The Contractor shall, on request, promptly provide the Owner with a certified true copy of each insurance policy exclusive of information pertaining to premium or premium bases used by the insurer to determine the cost of the insurance. The certified true copy shall include the signature of an officer of the insurer.
- .04 Where a policy is renewed, the Contractor shall provide the Owner, on a form acceptable to the Owner, renewed proof of insurance immediately following completion of renewal.
- .05 Unless specified otherwise, the Contractor shall be responsible for the payment of deductible amounts under the policies.
- .06 If the Contractor fails to provide or maintain insurance as required in subsection GC 6.03, Contractor's Insurance, or elsewhere in the Contract Documents, then the Owner shall have the right to provide and maintain such insurance and give evidence thereof to the Contractor. The Owner's cost thereof shall be payable by the Contractor to the Owner on demand.
- .07 If the Contractor fails to pay the cost of the insurance placed by the Owner within 30 Days of the date on which the Owner made a formal demand for reimbursement of such costs, the Owner may deduct the costs thereof from monies which are due or may become due to the Contractor.

GC 6.04 Bonding

- .01 The Contractor shall provide the Owner with the surety bonds in the amount required by the Contract Documents.
- .02 Such bonds shall be issued by a duly licensed surety company authorized to transact a business of suretyship in the Province of Ontario and shall be to the satisfaction of the Owner. The bonds shall be maintained in good standing until the Final Acceptance.

GC 6.05 Workplace Safety and Insurance Board

- .01 The Contractor shall provide the Contract Administrator with a copy of a Certificate of Clearance indicating the Contractor's good standing with the Workplace Safety and Insurance Board, as follows:
 - a) Immediately prior to the Contract Administrator authorizing the Contractor to commence Work.
 - b) Prior to issue of the Certificate of Substantial Performance.
 - c) Prior to expiration of the Warranty Period.
 - d) At any other time when requested by the Contract Administrator.

SECTION GC 7.0 - CONTRACTOR'S RESPONSIBILITIES AND CONTROL OF THE WORK

GC 7.01 General

GC 7.01.01 Site Visit

- .01 The Contractor warrants that the site of the Work has been visited during the preparation of the Tender and the character of the Work and all local conditions that may affect the performance of the Work are known.

GC 7.01.02 Commencement of Work

- .01 The Contractor shall not commence the Work nor deliver anything to the Working Area until the Contractor has received a written order to commence the work from the Contract Administrator.

GC 7.01.03 Control and Responsibility

- .01 The Contractor shall have complete control of the Work and shall effectively direct and supervise the Work so as to ensure conformity with the Contract Documents. The Contractor shall be responsible for construction means, methods, techniques, sequences, and procedures and for coordinating the various parts of the Work.
- .02 The Contractor shall provide adequate labour, Equipment, and Material to ensure the completion of the Contract in accordance with the Contract Documents. The Work shall be performed as vigorously and as continuously as weather conditions or other interferences may permit.
- .03 The Contractor shall have the sole responsibility for the design, erection, operation, maintenance, and removal of temporary structures and other temporary facilities and the design and execution of construction methods required in their use.
- .04 Notwithstanding clause GC 7.01.03, where the Contract Documents include designs for temporary structures and other temporary facilities or specify a method of construction in whole or part, such facilities and methods shall be considered to be part of the design of the Work, and the Contractor shall not be held responsible for that part of the design or the specified method of construction. The Contractor shall, however, be responsible for the execution of such design or specified method of construction in the same manner that the Contractor is responsible for the execution of the Work.
- .05 The Contractor shall comply with and conform to all statutes, laws, by-laws, regulations, requirements, ordinances, notices, rulings, orders, directives and policies of the municipal, provincial and federal governments and any other lawful authority and all court orders, judgments and declarations of a court of competent jurisdiction (collectively referred to as the "Laws"), applicable to the Work to be provided by, and the undertakings and obligations of, the Contractor under this Contract.

GC 7.01.04 Compliance with the Occupational Health and Safety Act

- .01 The Contractor shall execute the terms of the Contract in strict compliance with the requirements of the Occupational Health and Safety Act, R.S.O. 1990, c.O.1, as amended, (the "Act") and Ontario Regulation 213/91, as amended, (that regulates Construction Projects) and any other regulations as amended under the Act (the "Regulations") that may affect the performance of the Work, as the "Constructor" or "employer," as defined by the Act, as the case may be. The Contractor shall ensure that:
- a) worker safety is given first priority in planning, pricing, and performing the Work;

- b) its officers and supervisory employees have a working knowledge of the duties of a "Constructor" and "employer" as defined by the Act and the provisions of the Regulations applicable to the Work, and a personal commitment to comply with them;
 - c) a copy of the most current version of the Act and the Regulations are available at the Contractor's office within the Working Area, or, in the absence of an office, in the possession of the supervisor responsible for the performance of the Work;
 - d) workers employed to carry out the Work possess the knowledge, skills, and protective devices required by law or recommended for use by a recognized industry association to allow them to work in safety;
 - e) its supervisory employees are "Competent Persons" as defined in the OHSA, and carry out their duties in a diligent and responsible manner with due consideration for the health and safety of the workers;
 - f) all Subcontractors and their workers are properly protected from injury while they are at the Working Area; and
 - g) following execution of the Contract and prior to the issuance of the order to commence by the Owner, upon request the Contractor submits to the Contract Administrator a copy of the Notice of Project issued to the Ministry of Labour.
- .02 The Contractor, when requested, shall provide the Owner with a copy of its health and safety policy and program at the pre-start meeting and shall respond promptly to requests from the Owner for confirmation that its methods and procedures for carrying out the Work comply with the Act and Regulations. The Contractor shall cooperate with representatives of the Owner and the inspectors appointed to enforce the Act and the Regulations in any investigations of worker health and safety in the performance of the Work. The Contractor shall indemnify and save the Owner harmless from any additional expense that the Owner may incur to have the Work performed as a result of the Contractor's failure to comply with the requirements of the Act and the Regulations.
- .03 Prior to commencement of the Work, the Contractor shall provide to the Contract Administrator a list of those products controlled under the Workplace Hazardous Materials Information System or "WHMIS", which the Contractor expects to use on the Contract. Related Safety Data Sheets shall accompany the submission. All containers used in the application of products controlled under "WHMIS" shall be labelled. The Contractor shall notify the Contract Administrator in writing of changes in the products to be used and provide relevant Safety Data Sheets.
- .04 During the course of the Work, the Contractor shall furnish forthwith to the Contract Administrator a copy of all correspondence, reports, orders or charges respecting occupational health and safety, including under the Act, Technical Standards and Safety Act, 2000, S.O. 2000, c.16 as amended, and the Criminal Code, R.S.C., 1985, c. C-46 as amended, which are received by, or which come to the notice of, the Contractor that apply or are relevant to any of the Work or activities conducted under the terms of the Contract.
- .05 Nothing in this Contract shall be construed as requiring the Owner to monitor or approve the workplace health and safety practices of the Contractor.

GC 7.01.05 Contractor's Representatives

- .01 The Contractor shall have an authorized representative on the site while any Work is being performed, to supervise the Work and act for or on the Contractor's behalf. Prior to commencement of construction, the Contractor shall notify the Contract Administrator of the names, addresses, positions, and cell phone, and telephone numbers of the Contractor's representatives who can be contacted at any time to deal with matters relating to the Contract, and update as necessary.

- .02 The Contractor shall designate a person to be responsible for traffic control and work zone safety. The designated person shall be a competent worker who is qualified because of knowledge, training, and experience to perform the duties; is familiar with Book 7 of the Ontario Traffic Manual; and has knowledge of all potential or actual danger to workers and motorists. Prior to the commencement of construction, the Contractor shall notify the Contract Administrator of the name; address; position; cell phone, and telephone numbers of the designated person, and update as necessary. The designated person may have other responsibilities, including other construction sites, and need not be present in the Working Area at all times.

GC 7.01.06 Assistance to the Contract Administrator

- .01 The Contractor shall, at no additional cost to the Owner, furnish all reasonable aid, facilities, and assistance required by the Contract Administrator for the proper inspection and examination of the Work or the taking of measurements for the purpose of payment.

GC 7.01.07 Schedule

- .01 The Contractor shall prepare and update, as required, a construction schedule of operations, indicating the proposed methods of construction and sequence of Work and the time the Contractor proposes to complete the various items of Work within the time specified in the Contract Documents. The schedule shall be submitted to the Contract Administrator within 14 Days from the Contract award. If the Contractor's schedule is materially affected by changes in the work, the Contractor shall submit an updated construction schedule, if requested by the Contract Administrator, within 7 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 time specified in the Contract Documents.
- .02 For Contracts with a specified number of Working Days, the construction time shown on the initial schedule shall not exceed the specified number of Working Days. The activities on the critical path shall assist the Contract Administrator in determining the Controlling Operation for the purpose of the charging of Working Days. The construction schedule shall include all non-working periods and appropriate allowances for Inclement Weather.
- .03 For Contracts which specify a Contract Time, the construction time shown on the initial construction schedule shall not extend beyond the specified Contract Time. The construction schedule shall include all non-working periods and appropriate allowances for Inclement Weather.

GC 7.01.08 Errors and Inconsistencies Relating to the Contract

- .01 Where the Contractor finds any error, inconsistency, or omission relating to the Contract, the Contractor shall promptly report it to the Contract Administrator and shall not proceed with the activity affected until receiving direction from the Contract Administrator.
- .02 The Contractor shall promptly notify the Contract Administrator in writing if the subsurface conditions observed in the Working Area differ materially from those indicated in the Contract Documents.

GC 7.01.09 Utilities

- .01 The Contractor shall arrange with the appropriate Utility authorities for the stake out of all underground Utilities and service connections that may be affected by the Work. The Contractor shall observe the location of the stake outs prior to commencing the Work and in the event that there is a discrepancy between the location of the stake outs and the locations shown on the Contract Documents, that may affect the Work, the Contractor shall immediately notify the Contract Administrator and the affected Utility companies, in order to resolve the discrepancy. The Contractor shall be responsible for any damage done to the underground Utilities and service connections by

the Contractor's forces during construction if the stake out locations are within the tolerances given in clause GC 2.01.01 a).

- .02 In the case of damage to or interference with any Utilities, pole lines, pipe lines, conduits, farm tiles, or other public or privately owned works or property, the Contractor shall immediately notify the Owner, Contract Administrator, and the owner of the works of the location and details of such damage or interference.

GC 7.02 Monuments and Layout

- .01 Prior to commencement of construction, the Contract Administrator and the Contractor shall locate on site those Monuments that delineate the Working Area and may be used to lay out the Work, all as shown on the Contract Drawings. Property Monuments shall be inventoried in the report format required by the Owner.
- .02 These Monuments shall be protected by highly visible T-bars or 1.0 metre tall stakes with survey ribbon set within 0.3 metres of the Monument.
- .03 The Contractor shall be responsible for the preservation of all Property Monuments while the Work is in progress, except those Property Monuments that must be removed to facilitate the Work as identified and agreed by the Contractor and Contract Administrator. Monuments removed to facilitate the Work shall be replaced at the Owner's expense, and all others shall be replaced at the Contractor's expense.
- .04 All Monuments disturbed, damaged, or removed by the Contractor's operations shall be documented in the inventory report and replaced under the supervision of an Ontario Land Surveyor.
- .05 The Monument inventory report referred to in clauses GC 7.02.01 and GC 7.02.04 shall include as a minimum:
- Contract number, Contract name, Contract Administrator's name;
 - Project/site construction limits;
 - Rough location, type, identification number, and condition of each Monument before and after construction;
 - The solutions for protection of the Monuments that may be impacted by construction;
 - Reference ties;
 - A summary of those Monuments affected by the Work and how they were reset or replaced, and by what type of Monument.
- .06 At no extra cost to the Owner, the Contractor shall provide the Contract Administrator with such materials and devices as may be necessary to lay out the baseline and benchmarks, and as may be necessary for the inspection of the Work.
- .07 The Contractor shall provide qualified personnel to lay out and establish all lines and grades necessary for construction. The Contractor shall notify the Contract Administrator of any layout work carried out, so that the same may be checked by the Contract Administrator.
- .08 The Contractor shall install and maintain substantial alignment markers and secondary benchmarks as may be required for the proper execution of the Work. The Contractor shall supply one copy of all alignment and grade sheets to the Contract Administrator.
- .09 The Contractor shall assume full responsibility for alignment, elevations, and dimensions of each and all parts of the Work, regardless of whether the Contractor's layout work has been checked by the Contract Administrator.

- .10 All stakes, marks, and reference points shall be carefully preserved by the Contractor. In the case of their destruction or removal, for any reason, before the end of the Contract Time such stakes, marks, and reference points shall be replaced, unless otherwise mutually agreed between the Contractor and the Contract Administrator, at the Contractor's expense.
- .11 Benchmarks and survey monuments identified in the Contract Documents shall be protected by the Contractor. In the case of their destruction or removal, such benchmarks and survey monuments shall be replaced by the Owner at the Contractor's expense.

GC 7.03 Working Area

- .01 The Contractor shall maintain the Working Area in a tidy condition and free from the accumulation of debris and prevent dust nuisance, mud, and ponding water, other than that caused by the Owner or others.
- .02 The Contractor's sheds, site offices, toilets, other temporary structures, and storage areas for Material and Equipment shall be grouped in a compact manner, maintained in a neat and orderly condition at all times and removed upon completion of the Work.
- .03 The Contractor shall confine the construction operations to the Working Area. Should the Contractor require additional space, the Contractor shall obtain such space at no additional cost to the Owner.
- .04 The Contractor shall not enter upon or occupy any private property for any purpose, unless the Contractor has received prior written permission from the property owner.
- .05 Upon completion of the Contract, the Working Area used by the Contractor shall be restored to its original condition or better unless otherwise specified in the Contract Documents including the removal of all excavated and stockpiled materials at the Contractor's expense.

GC 7.04 Damage by Vehicles or Other Equipment

- .01 If at any time, in the opinion of the Contract Administrator, damage is being done or is likely to be done to any Roadway or any improvement thereon, outside the Working Area, by the Contractor's vehicles or other Equipment, whether licensed or unlicensed Equipment, the Contractor shall, on the direction of the Contract Administrator, and at no extra cost to the Owner, make changes or substitutions for such vehicles or Equipment, and shall alter loadings, or in some other manner, remove the cause of such damage to the satisfaction of the Contract Administrator.

GC 7.05 Excess Loading of Motor Vehicles

- .01 Where a vehicle is hauling Material for use on the Work, in whole or in part; upon a Highway; and where motor vehicle registration is required for such vehicle, the Contractor shall not cause or permit such vehicle to be loaded beyond the legal limit specified in the Highway Traffic Act, R.S.O. 1990, c.H.8, as amended, whether such vehicle is registered in the name of the Contractor or otherwise, except where there are designated areas within the Working Area where overloading is permitted. The Contractor shall bear the onus of weighing disputed loads.

GC 7.06 Maintaining Roads and Detours

- .01 Unless otherwise specified in the Contract Documents, if an existing Roadway is affected by construction, it shall be kept open to both vehicular and pedestrian traffic.
- .02 Subject to the approval of the Contract Administrator, the Contractor shall, at no additional cost to the Owner, be responsible for providing and maintaining for the duration of the Work an alternative route for both pedestrian and vehicular traffic through the Working Area in accordance with the OTM,

whether along the existing Highway under construction or on a detour road beside or adjacent to the Highway under construction.

- .03 Subject to the approval of the Contract Administrator, the Contractor may block traffic for short periods of time to facilitate construction of the Work in accordance with the OTM. Any temporary lane closures shall be kept to a minimum.
- .04 The Contractor shall not be required to maintain a road through the Working Area until such time as the Contractor has commenced operations or during seasonal shut down or on any part of the Contract that has been accepted in accordance with these General Conditions. The Contractor shall not be required to apply de-icing chemicals or abrasives or carry out snowplowing.
- .05 Where only localized and separated sections of the Highway are affected by the Contractor's operations, the Contractor shall not be required to maintain intervening sections of the Highway until such times as these sections are located within the limits of the Highway affected by the Contractor's general operations under the Contract.
- .06 Where the Contract Documents provide for or the Contract Administrator requires detours at specific locations, payment for the construction of the detours and, if required, for the subsequent removal of the detours, shall be made at the Contract prices appropriate to such Work.
- .07 Compensation for all labour, Equipment, and Materials to do this Work shall be at the Contract prices appropriate to the Work and, where there are no such prices, at negotiated prices. Notwithstanding the foregoing, the cost of blading required to maintain the surface of such roads and detours shall be deemed to be included in the prices bid for the various tender items and no additional payment shall be made.
- .08 Where Work under the Contract is discontinued for any extended period, including seasonal shutdown, the Contractor shall, when directed by the Contract Administrator, open and place the Roadway and detours in a passable, safe, and satisfactory condition for public travel.
- .09 Where the Contractor constructs a detour that is not specifically provided for in the Contract Documents or required by the Contract Administrator, the construction of the detour and, if required, the subsequent removal shall be performed at the Contractor's expense. The detour shall be constructed and maintained to structural and geometric standards approved by the Contract Administrator. Removal and site restoration shall be performed as directed by the Contract Administrator.
- .10 Where, with the prior written approval of the Contract Administrator, the Highway is closed and the traffic diverted entirely off the Highway to any other Highway, the Contractor shall, at no extra cost to the Owner, supply, erect, and maintain traffic control devices in accordance with the OTM.
- .11 Compliance with the foregoing provisions shall in no way relieve the Contractor of its obligations under subsection GC 6.01, Protection of Work, Persons, and Property, dealing with the Contractor's responsibility for damage claims, except for claims arising on sections of Highway within the Working Area that are being maintained by others.

GC 7.07 Access to Properties Adjoining the Work and Interruption of Utility Services

- .01 The Contractor shall provide at all times and at no extra cost to the Owner,
 - a) safe and adequate pedestrian and vehicular access; and
 - b) continuity of Utility services; and

c) access for emergency response services;

to properties adjoining the Working Area.

- .02 The Contractor shall provide at all times and at no extra cost to the Owner access to fire hydrants, water and gas valves, and all other Utilities located in the Working Area.
- .03 Where any interruptions in the supply of Utility services are required and are authorized by the Contract Administrator, the Contractor shall give the affected property owners notice in accordance with subsection GC 7.11, Notices by the Contractor, and shall arrange such interruptions so as to create a minimum of interference to those affected.

GC 7.08 Approvals and Permits

- .01 Except as specified in subsection GC 4.02, Approval and Permits, the Contractor shall obtain and pay for any permits, licences, and certificates, which at the date of tender closing, are required for the performance of the Work.
- .02 The Contractor shall arrange for all necessary inspections required by the approvals and permits specified in clause GC 7.08.01, Approvals and Permit.

GC 7.09 Suspension of Work

- .01 The Contractor shall, upon written notice from the Contract Administrator, discontinue or delay any or all of the Work and Work shall not be resumed until the Contract Administrator so directs in writing. Delays, in these circumstances, shall be administered according to subsection GC 3.07, Delays.

GC 7.10 Contractor's Right to Stop the Work or Terminate the Contract

- .01 If the Owner is adjudged bankrupt or makes a general assignment for the benefit of creditors because of insolvency or if a receiver is appointed because of insolvency, the Contractor may, without prejudice to any other right or remedy the Contractor may have, by giving the Owner or receiver or trustee in bankruptcy written notice, terminate the Contract.
- .02 If the Work is stopped or otherwise delayed for a period of 30 Days or more under an order of a court or other public authority and provided that such order was not issued as the result of an act or fault of the Contractor or of anyone directly employed or engaged by the Contractor, the Contractor may, without prejudice to any other right or remedy the Contractor may have, by giving the Owner written notice, terminate the Contract.
- .03 The Contractor may notify the Owner in writing, with a copy to the Contract Administrator, that the Owner is in default of contractual obligations if,
 - a) the Contract Administrator fails to issue certificates in accordance with the provisions of section GC 8.0, Measurement and Payment;
 - b) the Owner fails to pay the Contractor, within 30 Days of the due dates identified in clause GC 8.02.04, Certification and Payment, the amounts certified by the Contract Administrator or within 30 Days of an award by an arbitrator or court; or
 - c) the Owner fails to comply with the requirements of the Contract.
- .04 The Contractor's written notice to the Owner shall advise that if the default is not corrected in the 7 Days immediately following receipt of the written notice, the Contractor may, without prejudice to any other right or remedy the Contractor may have, stop the Work or terminate the Contract.

- .05 If the Contractor terminates the Contract under the conditions set out in subsection GC 7.10, Contractor's Right to Stop the Work or Terminate the Contract, the Contractor shall be entitled to be paid for all Work performed according to the Contract Documents and for any losses or damage as the Contractor may sustain as a result of the termination of the Contract.

GC 7.11 Notices by the Contractor

- .01 Before any Work is carried out that may affect the property or operations of any Ministry or agency of government or any person; company; partnership; or corporation, including a municipal corporation or any board or commission thereof, and in addition to such notices of the commencement of specified operations as are prescribed elsewhere in the Contract Documents, the Contractor shall give at least 48 hours advance written notice of the date of commencement of such Work to the person, company, partnership, corporation, board, or commission so affected.

GC 7.12 Environmental Incident Management under Legislation Protecting the Environment and Natural Resources

- .01 The Contractor shall be in strict compliance with the requirements of the following legislation, as amended, regarding environmental incidents under the control of the Contractor or that are a result of the Contractor's operations:
- a) Environmental Protection Act, R.S.O. 1990, c. E.19
 - b) Fisheries Act, R.S.C. 1985, c. F-14
 - c) Technical Standards and Safety Act, 2000, S.O. 2000, c. 16
 - d) Pesticides Act, R.S.O. 1990, c. P.11
 - e) Ontario Water Resources Act, R.S.O. 1990, c. O.40
 - f) Transportation of Dangerous Goods Act, 1992, S.C.1992, c. 34
- .02 The requirements of the legislation listed in clause GC 7.12.01 include but are not restricted to:
- a) Immediate containment of the material, pollutant, contaminant, deleterious substance, or dangerous good;
 - b) Immediate notification of the environmental incident to the proper authority; and
 - c) Clean up and restoration of the environment to preconditions.
- .03 The Contractor shall possess a plan demonstrating that environmental incidents shall be managed to satisfy the requirements of clauses GC 7.12.01 and GC 7.12.02.
- .04 The Contractor shall provide a copy of the environmental incident plan to the Contract Administrator when required and shall inform the Contract Administrator immediately of:
- a) An environmental incident when it occurs; and
 - b) Any actions taken or intended to be taken by the Contractor regarding the environmental incident.
- .05 The Contractor shall indemnify and save the Owner harmless from any additional expense that the Owner may incur to have the Work performed as a result of the Contractor's failure to comply with

the requirements of the legislation listed in clause GC 7.12.01.

GC 7.13 Obstructions

- .01 Except as otherwise noted in these General Conditions, the Contractor assumes all the risks and responsibilities arising out of any obstruction encountered in the performance of the Work and any traffic conditions, including traffic conditions on any Highway or road giving access to the Working Area caused by such obstructions, and the Contractor shall not make any claim against the Owner for any loss, damage, or expense occasioned thereby.
- .02 Where the obstruction is an underground Utility or other man-made object, the Contractor shall not be required to assume the risks and responsibilities arising out of such obstruction, unless the location of the obstruction is shown on the Plans or described in the Contract Documents and the location so shown is within the tolerance specified in clause GC 2.01.01 a), or unless the presence and location of the obstruction has otherwise been made known to the Contractor or could have been determined by the visual site investigation made by the Contractor in accordance with these General Conditions.
- .03 During the course of the Contract, it is the Contractor's responsibility to consult with Utility companies or other appropriate authorities for further information in regard to the exact location of these Utilities, to exercise the necessary care in construction operations, and to take such other precautions as are necessary to safeguard the Utilities from damage.

GC 7.14 Limitations of Operations

- .01 Except for such Work as may be required by the Contract Administrator to maintain the Work in a safe and satisfactory condition, the Contractor shall not carry out operations under the Contract on Saturdays, Sundays, and any holidays recognized by the Owner without permission in writing from the Contract Administrator.
- .02 The Contractor shall cooperate and coordinate the Work with other Contractors, Utility companies, and the Owner and they shall be allowed access to their Work or plant at all reasonable times.

GC 7.15 Cleaning Up Before Acceptance

- .01 Upon attaining Substantial Performance of the Work, the Contractor shall remove surplus materials, tools, and Equipment not required for the performance of the remaining Work. The Contractor shall also remove all temporary works and debris other than that caused by the Owner or others and leave the Work and Working Area clean and suitable for occupancy by the Owner, unless otherwise specified.
- .02 The Work shall not be deemed to have reached Completion until the Contractor has removed surplus materials, tools, and Equipment. The Contractor shall also have removed debris, other than that caused by the Owner, or others.

GC 7.16 Warranty

- .01 Unless otherwise specified in the Contract Documents for certain Materials or components of the Work, the Contractor shall be responsible for the proper performance of the Work only to the extent that the design and standards permit such performance.
- .02 Subject to the previous paragraph the Contractor shall correct promptly, at no additional cost to the Owner, defects or deficiencies in the Work that appear,
 - a) prior to and during the period of 24 months from the date of Substantial Performance of the Work, as set out in the Certificate of Substantial Performance of the Work,

- b) where there is no Certificate of Substantial Performance, 24 months from the date of Completion of the Work as set out in the Completion Certificate, or
- c) such longer periods as may be specified in the Contract Documents for certain Materials or some of the Work.

The Contract Administrator shall promptly give the Contractor written notice of observed defects or deficiencies.

- .03 The Contractor shall correct or pay for damage resulting from corrections made under the requirements of clause GC 7.16.02.

GC 7.17 Contractor's Workers

- .01 The Contractor shall only employ orderly, competent, and skillful workers to do the Work and whenever the Contract Administrator shall inform the Contractor in writing that any worker or workers involved in the Work are, in the opinion of the Contract Administrator, incompetent, or disorderly such worker or workers shall be removed from the Work and shall not be employed on the Work again without the consent in writing of the Contract Administrator.

GC 7.18 Drainage

- .01 During construction and until the Work is completed, the Contractor shall make all reasonable efforts to keep all portions of the Work properly and efficiently drained, to at least the same degree as that of the existing drainage conditions.

SECTION GC 8.0 - MEASUREMENT AND PAYMENT

GC 8.01 Measurement

GC 8.01.01 Quantities

- .01 The Contract Administrator shall make an Estimate in writing once a month, unless otherwise specified in the Contract Documents, of the quantity of Work performed. The first Estimate shall be the quantity of Work performed since the Contractor commenced the Contract, and every subsequent Estimate, except the final one, shall be of the quantity of Work performed since the preceding Estimate was made. The Contract Administrator shall provide the copy of each Estimate to the Contractor within 10 Days of the Cut-Off Date.
- .02 Quantities for progress payments shall be construed and held to approximate. The final quantities for the issuance of the Completion Payment Certificate shall be based on the measurement of Work completed.
- .03 Measurement of the quantities of the Work performed may be either by Actual Measurement or by Plan Quantity principles as indicated in the Contract. Adjustments to Plan Quantity measurements shall normally be made using Plan Quantity principles but may, where appropriate, be made using Actual Measurements. Those items identified on the Tender by the notation (P) in the unit column shall be paid according to the Plan Quantity. Items where the notation (P) does not occur shall be paid according to Actual Measurement or lump sum.

GC 8.01.02 Variations in Tender Quantities

- .01 Where it appears that the quantity of Work to be done or Material to be supplied or both by the Contractor under a unit price tender item may exceed or be less than the tender quantity, the Contractor shall proceed to do the Work or supply the Material or both required to complete the tender item and payment shall be made for the actual amount of Work done or Material supplied or both at the unit prices stated in the Tender except as provided below:
 - a) In the case of a Major Item where the quantity of Work performed or Material supplied or both by the Contractor exceeds the tender quantity by more than 15%, either party to the Contract may make a written request to the other party to negotiate a revised unit price for that portion of the Work performed or Material supplied or both which exceeds 115% of the tender quantity. The negotiation shall be carried out as soon as reasonably possible. Any revision of the unit price shall be based on the actual cost of doing the Work or supplying the Material or both under the tender item plus a reasonable allowance for profit and applicable overhead. Alternatively, where both parties agree, an allowance equal to 10% of the unit price on the amount of the underrun in excess of 15% of the tender quantity shall be paid.
 - b) In the case of a Major Item where the quantity of Work performed or Material supplied or both by the Contractor is less than 85% of the tender quantity, the Contractor may make a written request to negotiate for the portion of the actual overheads and fixed costs applicable to the amount of the underrun in excess of 15% of the tender quantity. For purposes of the negotiation, the overheads and fixed costs applicable to the item are deemed to have been prorated uniformly over 100% of the tender quantity for the item. Overhead costs shall be confirmed by a statement certified by the Contractor's senior financial officer or auditor and may be audited by the Owner. Alternatively, where both parties agree, an allowance equal to 10% of the unit price on the amount of the underrun in excess of 15% of the tender quantity shall be paid.

Written requests for compensation must be received no later than 60 Days after the issuance of the Completion Payment Certificate.

GC 8.02 Payment

GC 8.02.01 Non-Resident Contractor

- .01 If the Contractor is not a registered entity in Ontario, the Contractor shall obtain all necessary approvals, consents, permits, licences, certificates, registrations, and other authorizations prior to execution of the Contract.
- .02 The Contractor shall ensure that all Subcontractors the Contractor proposes to use for carrying out any of the Work required by the Contract and who are not a registered entity in Ontario have obtained all necessary approvals, consents, permits, certificates, registrations, and other authorizations prior to execution of the subcontract.

GC 8.02.02 Price for Work

- .01 Prices for the Work shall be full compensation for all labour, Equipment and Material required in its performance. The term "all labour, Equipment, and Material" shall include Hand Tools, supplies, and other incidentals.
- .02 Payment, for Work which is identified in the Contract Documents but not specifically detailed as part of any one item shall be deemed to be included in the items with which it is associated.

GC 8.02.03 Advance Payments for Material

- .01 The Owner shall make advance payments for Material intended for incorporation in the Work upon the written request of the Contractor and according to the following terms and conditions:
 - a) The Contractor shall deliver the Material to a site approved by the Contract Administrator and the Contractor shall, in advance of receipt of the shipment of the Material, arrange for adequate and proper storage facilities.
 - b) The value of aggregates, processed and stockpiled, shall be assessed by the following procedure:
 - i. Sources Other Than Commercial
 - (1) Granular A, B, BI, BII, BIII, M, and O shall be assessed at the rate of 60% of the Contract price.
 - (2) Coarse and fine aggregates for hot mix asphaltic concrete, surface treatment and Portland cement concrete shall be assessed at the rate of 25% of the Contract price for each aggregate stockpiled.
 - ii. Commercial Sources
 - Payment for separated coarse and fine aggregates shall be considered at the above rate when such Materials are stockpiled at a commercial source where further processing is to be carried out before incorporating such Materials into a final product. Advance payments for other Materials located at a commercial source shall not be made.
 - c) Payment for all other Materials, unless otherwise specified elsewhere in the Contract Documents, shall be based on the invoice price, and the Contractor shall submit proof of cost to the Contract Administrator before payment can be made by the Owner.
 - d) The payment for all Materials shall be prorated against the appropriate tender item by paying for sufficient units of the item to cover the value of the Material. Such payment shall not exceed 80% of the Contract price for the item.

- e) All Materials for which the Contractor wishes to receive advance payment shall be placed in the designated storage location immediately upon receipt of the Material and shall thenceforth be held by the Contractor in trust for the Owner as collateral security for any monies advanced by the Owner and for the due completion of the Work. The Contractor shall not exercise any act of ownership inconsistent with such security, or remove any Material from the storage locations, except for inclusion in the Work, without the consent, in writing, of the Contract Administrator.
 - f) Such materials shall remain at the risk of the Contractor who shall be responsible for any loss, damage, theft, improper use, or destruction of the Material however caused.
- .02 Where the Owner makes advance payments subject to the conditions listed in clause GC 8.02.03.01, such payment shall not constitute acceptance of the Material by the Owner. Acceptance shall only be determined when the Material meets the requirements of the appropriate specification.

GC 8.02.04 Certification and Payment

GC 8.02.04.01 Progress Payment Certificate

- .01 The value of the Work performed and Material supplied shall be calculated by the Contract Administrator in accordance with clause GC 8.01.01, Quantities and as specified in the Contract Documents. Progress Payments shall be made on a monthly basis unless specified otherwise in the Contract Documents.
- .02 The progress payment certificate shall show,
- a) the quantities of Work performed;
 - b) the value of Work performed;
 - c) any advanced payment for Material;
 - d) the amount of statutory holdback, liens, Owner's set-off;
 - e) the amount of any applicable taxes; and
 - f) the amount due to the Contractor.
- .03 One copy of the progress payment certificate shall be sent to the Contractor.
- .04 Payment shall be made within 30 Days of the Cut-Off Date.
- .05 The Owner shall retain from funds owing under the Contract the statutory holdbacks required under the *Construction Act*.

GC 8.02.04.02 Certification of Subcontract Completion

- .01 Before the Work has reached the stage of Substantial Performance, the Contractor may notify the Contract Administrator, in writing that a subcontract is completed satisfactorily and ask that the Contract Administrator certify the completion of such subcontract.
- .02 The Contract Administrator shall issue a Certificate of Subcontract Completion, if the subcontract has been completed in a form satisfactory to the Contract Administrator, and all required inspection and testing of the works covered by the subcontract have been carried out and the results are satisfactory to the Contract Administrator.

- .03 The Contract Administrator shall set out in the Certificate of Subcontract Completion the date on which the subcontract was completed and, within 7 Days of the date the subcontract is certified complete, the Contract Administrator shall give a copy of the certificate to the Contractor and to the Subcontractor concerned.

GC 8.02.04.03 Subcontract Statutory Holdback Release Certificate and Payment

- .01 Following receipt of the Certificate of Subcontract Completion, the Owner shall release and pay the Contractor the statutory holdback retained in respect of the subcontract. Such release shall be made 61 Days after the date the subcontract was certified complete and providing the Contractor submits the following to the Contract Administrator:
- a) a document satisfactory to the Contract Administrator that shall release the Owner from all further claims relating to the subcontract, qualified by stated exceptions such as holdback monies;
 - b) evidence satisfactory to the Contract Administrator that the Subcontractor has discharged all liabilities incurred in carrying out the subcontract;
 - c) a satisfactory clearance certificate or letter from the Workplace Safety and Insurance Board relating to the subcontract; and
 - d) a copy of the contract between the Contractor and the Subcontractor and a satisfactory statement showing the total amount due the Subcontractor from the Contractor.
- .02 Clause GC 8.02.04.03.01 d), shall only apply to Lump Sum Items and then only when the Contract Administrator specifically requests it.
- .03 Upon receipt of the statutory holdback, the Contractor shall forthwith give the Subcontractor the payment due under the subcontract.
- .04 Release of statutory holdback by the Owner in respect of a subcontract shall not relieve the Contractor, or the Contractor's Surety, of any of their responsibilities.

GC 8.02.04.04 Certification of Substantial Performance

- .01 Upon application by the Contractor and when the Contract Administrator has verified that the Contract has been substantially performed, the Contract Administrator shall issue a Certificate of Substantial Performance.
- .02 Upon verifying that the Contract has been substantially performed, the Contract Administrator shall issue a certificate of Substantial Performance and shall set out in the Certificate of Substantial Performance the date on which the Contract was substantially performed and, within 7 Days after signing the said certificate, the Contract Administrator shall provide a copy to the Contractor.
- .03 Upon receipt of a copy of the Certificate of Substantial Performance, the Contractor shall forthwith, as required by Section 32(1) Paragraph 5 of the Construction Act, R.S.O. 1990, c.C.30, as amended, publish a copy of the certificate in the manner set out in the regulations.
- .04 Where the Contractor fails to publish a copy of the Certificate of Substantial Performance as required above within 7 Days after receiving a copy of the certificate signed by the Contract Administrator, the Owner may publish a copy of the certificate at the Contractor's expense.
- .05 Except as otherwise provided for in Section 31 of the Construction Act, the 60 Day lien period prior to the release of holdback as referred to in clause GC 8.02.04.05, Substantial Performance Payment

and Statutory Holdback Release Payment Certificates, shall commence from the date of publication of the Certificate of Substantial Performance as provided for above.

GC 8.02.04.05 Substantial Performance Payment and Substantial Performance Statutory Holdback Release Payment Certificates

- .01 When the Contract Administrator issues the Certificate of Substantial Performance, the Contract Administrator shall also issue the Substantial Performance Payment Certificate and the Substantial Performance Statutory Holdback Release Payment Certificate or where appropriate, a combined payment certificate.
- .02 The Substantial Performance Payment Certificate shall show,
 - a) the value of Work performed to the date of Substantial Performance;
 - b) the value of outstanding or incomplete Work;
 - c) the amount of the statutory holdback, allowing for any previous releases of statutory holdback to the Contractor in respect of completed subcontracts and deliveries of pre-selected Equipment;
 - d) the amount of maintenance security required; and
 - e) the amount due the Contractor.
- .03 Payment of the amount certified shall be made within 30 Days of the date of issuance of the payment certificate.
- .04 The Substantial Performance Statutory Holdback Release Payment Certificate shall be a payment certificate releasing to the Contractor the statutory holdback due in respect of Work performed up to the date of Substantial Performance. Payment of such statutory holdback shall be due 61 Days after the date of publication of the Certificate of Substantial Performance but subject to the provisions of the Construction Act.

GC 8.02.04.06 Certification of Completion

- .01 Upon application by the Contractor and when the Contract Administrator has verified that the Contract has reached Completion, the Contract Administrator shall issue a Completion Certificate.
- .02 The Contract Administrator shall set out in the Completion Certificate the date on which the Work was completed and, within 7 Days of signing the said certificate, the Contract Administrator shall provide a copy to the Contractor.

GC 8.02.04.07 Completion Payment and Completion Statutory Holdback Release Payment Certificates

- .01 When the Contract Administrator issues the Completion Certificate, the Contract Administrator shall also issue the Completion Payment Certificate and the Completion Statutory Holdback Release Payment Certificate or where appropriate, a combined payment certificate.
- .02 The Completion Payment Certificate shall show,
 - a) measurement and value of Work at Completion;

- b) the amount of the further statutory holdback based on the value of further Work completed over and above the value of Work completed shown in the Substantial Performance Payment Certificate referred to above; and
 - c) the amount due the Contractor.
- .03 The Completion Statutory Holdback Release Payment Certificate shall be a payment certificate releasing to the Contractor the further statutory holdback. Payment of such statutory holdback shall be due 61 Days after the date of Completion of the Work as established by the Completion Certificate but subject to the provisions of the Construction Act.

GC 8.02.04.08 Interest

- .01 Interest due the Contractor is based on simple interest and is calculated using the applicable Rate of Interest.

GC 8.02.04.09 Interest for Late Payment

- .01 Provided the Contractor has complied with the requirements of the Contract, including all documentation requirements, when payment by the Owner to the Contractor for Work performed, or for release of statutory holdback, is delayed by the Owner, then the Contractor shall be entitled to receive interest on the outstanding payment at the Rate of Interest, if payment is not received on the dates set out below:
- a) Progress Payment Certificates: 30 Days after the Cut-Off Date;
 - b) Certificate of Subcontract Completion: 30 Days after the date certified as the date on which the subcontract was completed;
 - c) Subcontract Statutory Holdback Release Payment Certificate: 91 Days after the date on which the subcontract was completed;
 - d) Substantial Performance Payment Certificate: 30 Days after the date of issuance of the certificate;
 - e) Substantial Performance Statutory Holdback Release Payment Certificate: 91 Days after publication of the Payment Certificate of Substantial Performance;
 - f) Completion Payment Certificate: 30 Days after the date certified as the date on which the Contract reached Completion; and
 - g) Completion Statutory Holdback Release Payment Certificate: 91 Days after the date certified as the date that the Work was completed.
- .02 If the Contractor has not complied with the requirements of the Contract, including all documentation requirements, prior to expiration of the time periods described in clause GC 8.02.04.09.01, interest shall only begin to accrue when the Contractor has completed those requirements.

GC 8.02.04.10 Interest for Negotiations and Claims

- .01 Except as hereinafter provided, where a notice of negotiation, notice of intent to claim and the subsequent claims are submitted in accordance with the time limits or procedure or both described by subsection GC 3.13, Claims, Negotiations, Mediation, the Owner shall pay the Contractor the Rate of Interest on the amount of the negotiated price for that part of the Work or on the amount of the settled claim. Such interest shall not commence until 30 Days after the satisfactory completion of that part of the Work.

.02 Where the Contractor fails to give notice of a claim within the time limit prescribed by subsection GC 3.13, Claims, Negotiations, Mediation, interest shall not be paid.

.03 Where a Contractor fails to comply with the 30 Day time limit and the procedures prescribed in clause GC 3.13.03.03 for submission of claims, interest shall not be paid for the delay period.

GC 8.02.04.11 Owner's Set-Off

.01 Pursuant to the Construction Act, The Owner may retain from monies owing to the Contractor under this Contract an amount sufficient to cover any outstanding or disputed liabilities, including the cost to remedy deficiencies, the reduction in value of substandard portions of the Work, claims for damages by third parties that have not been determined in writing by the Contractor's insurer, undetermined claims by the Owner, and any assessment due the Workplace Safety and Insurance Board.

.02 Under these circumstances the Owner will give the Contractor appropriate notice of such action.

GC 8.02.04.12 Delay in Payment

.01 The Owner shall not be deemed to be in default of the Contract provided any delay in payment does not exceed 30 Days from the due dates as defined in clause GC 8.02.04.09.01.

GC 8.02.05 Payment on a Time and Material Basis

GC 8.02.05.01 Definitions

.01 For the purpose of clause GC 8.02.05 the following definitions apply:

Cost of Labour means the amount of wages, salary, travel, travel time, food, lodging, or similar items and Payroll Burden paid or incurred directly by the Contractor to or in respect of labour and supervision actively and necessarily engaged on the Work based on the recorded time and hourly rates of pay for such labour and supervision but shall not include any payment or costs incurred for general supervision, administration, and management time spent on the entire Work or any wages, salary, or Payroll Burden for which the Contractor is compensated by any payment made by the Owner for Equipment.

Cost of Material means the cost of Material purchased or supplied from stock and valued at current market prices for the purpose of carrying out Extra Work by the Contractor or by others, when such arrangements have been made by the Contractor for completing the Work, as shown by itemized invoices.

Operated Rented Equipment means Rented Equipment for which an operator is provided by the supplier of the Equipment and for which the rent or lease includes the cost of the operator.

Payroll Burden means the payments in respect of workplace insurance, vacation pay, employment insurance, public liability and property damage insurance, sickness and accident insurance, pension fund, and such other welfare and benefit payments forming part of the Contractor's normal labour costs.

Rented Equipment means Equipment that is rented or leased for the special purpose of Work on a Time and Material Basis from a person, firm, or corporation that is not an associate of the lessee as the word "associate" is defined by the Securities Act, R.S.O. 1990, c.S.5, as amended, and is approved by the Contract Administrator.

Road Work means the preparation, construction, finishing, and construction maintenance of roads, streets, Highways, and parking lots and includes all work incidentals thereto other than Work on structures.

Sewer and Watermain Work means the preparation, construction, finishing, and construction maintenance of sewer systems and watermain systems, and includes all work incidental thereto other than Work on structures.

Standby Time means any period of time that is not considered Working Time and which together with the Working Time does not exceed 10 hours in any one Working Day and during which time a unit of Equipment cannot practically be used on other Work but must remain on the site in order to continue with its assigned task and during which time the unit is in fully operable condition.

Structure Work means the construction, reconstruction, repair, alteration, remodelling, renovation, or demolition of any bridge, building, tunnel, or retaining wall and includes the preparation for and the laying of the foundation of any bridge, building, tunnel, or retaining wall and the installation of Equipment and appurtenances incidental thereto.

The 127 Rate means the rate for a unit of Equipment as listed in OPSS.PROV 127, Schedule of Rental Rates for Construction Equipment, Including Model and Specification Reference, that is current at the time the work is carried out or for Equipment that is not so listed, the rate that has been calculated by the Owner, using the same principles as used in determining The 127 Rates.

Work on a Time and Material Basis means Changes in the Work, Extra Work, and Additional Work approved by the Contract Administrator for payment on a Time and Material basis. The Work on a Time and Material Basis shall be subject to all the terms, conditions, Standard Specifications and provisions of the Contract.

Working Time means each period of time during which a unit of Equipment is actively and of necessity engaged on a specific operation and the first 2 hours of each immediately following period during which the unit is not so engaged but during which the operation is otherwise proceeding and during which time the unit cannot practically be transferred to other Work but must remain on the site in order to continue with its assigned tasks and during which time the unit is in a fully operable condition.

GC 8.02.05.02 Daily Work Records

- .01 Daily Work Records, prepared as the case may be by either the Contractor's representative or the Contract Administrator reporting the labour and Equipment employed and the Material used on each Time and Material project, should be reconciled and signed each Day by both the Contractor's representative and the Contract Administrator. If it is not possible to reconcile the Daily Work Records, then the Contractor shall submit the un-reconciled Daily Work Records with its claim, whereby the resolution of the dispute about the Daily Work Records shall not be resolved until there is a resolution of the claim.

GC 8.02.05.03 Payment for Work

- .01 Payment as herein provided shall be full compensation for all labour, Equipment, and Material to do the Work on a Time and Material Basis except where there is agreement to the contrary prior to the commencement of the Work on a Time and Material Basis. The payment adjustments on a Time and Material basis shall apply to each individual Change Order authorized by the Contract Administrator.

GC 8.02.05.04 Payment for Labour

- .01 The Owner shall pay the Contractor for labour employed on each Time and Material project at 135% of the Cost of Labour up to \$3,500, then at 120% of any portion of the Cost of Labour in excess of \$3,500.

- .02 The Owner shall make payment in respect of Payroll Burden for Work on a Time and Material Basis at the Contractor's actual cost of Payroll Burden.
- .03 At the Owner's discretion, an audit may be conducted in which case the actual Payroll Burden so determined shall be applied to all Time and Material work on the Contract.

GC 8.02.05.05 Payment for Material

- .01 The Owner shall pay the Contractor for Material used on each Time and Material project at 120% of the Cost of the Material up to \$3,500, then at 115% of any portion of the Cost of Material in excess of \$3,500.

GC 8.02.05.06 Payment for Equipment

GC 8.02.05.06.01 Working Time

- .01 The Owner shall pay the Contractor for the Working Time of all Equipment, other than Rented Equipment and Operated Rented Equipment, used on the Work on a Time and Material basis at The 127 Rates with a cost adjustment as follows:
 - a) Cost \$12,000 or less - no adjustment;
 - b) Cost greater than \$12,000 but not exceeding \$24,000 - payment \$12,000 plus 90% of the portion in excess of \$12,000; and
 - c) Cost greater than \$24,000 - \$22,800 plus 80% of the portion in excess of \$24,000.
- .02 The Owner shall pay the Contractor for the Working Time of Rented Equipment used on the Work on a Time and Material Basis at 110% of the invoice price approved by the Contract Administrator up to a maximum of 110% of The 127 Rate. This constraint shall be waived when the Contract Administrator approves the invoice price prior to the use of the Rented Equipment.
- .03 The Owner shall pay the Contractor for the Working Time of Operated Rented Equipment used on the Work on a Time and Material Basis at 110% of the Operated Rented Equipment invoice price approved by the Contract Administrator prior to the use of the Equipment on the Work on a Time and Material Basis.

GC 8.02.05.06.02 Standby Time

- .01 The Owner shall pay the Contractor for Standby Time of Equipment at 35% of The 127 Rate or 35% of the invoice price whichever is appropriate. The Owner shall pay reasonable costs for Rented Equipment where this is necessarily retained in the Working Area for extended periods agreed to by the Contract Administrator. This shall include Rented Equipment intended for use on other work, but has been idled due to the circumstances giving rise to the Work on a Time and Material Basis.
- .02 In addition, the Owner shall include the Cost of Labour of operators or associated labourers who cannot be otherwise employed during the Standby Time or during the period of idleness caused by the circumstances giving rise to the Work on a Time and Material Basis.
- .03 The Contract Administrator may require Rented Equipment idled by the circumstances giving rise to the Work on Time and Material Basis to be returned to the lessor until the Work requiring the Equipment can be resumed. The Owner shall pay such costs as a result from such return.
- .04 When Equipment is transported, solely for the purpose of the Work on a Time and Material Basis, to or from the Working Area on a Time and Material basis, payment shall be made by the Owner only in respect of the transporting units. When Equipment is moved under its own power it shall be

deemed to be working. The method of moving Equipment and the rates shall be subject to the approval of the Contract Administrator.

GC 8.02.05.07 Payment for Hand Tools

- .01 Notwithstanding any other provision of this Section, no payment shall be made to the Contractor for or in respect of Hand Tools or Equipment that are tools of the trade.

GC 8.02.05.08 Payment for Work By Subcontractors

- .01 Where the Contractor arranges for Work on a Time and Material Basis, or a part of it, to be performed by Subcontractors on a Time and Material basis and has received approval prior to the commencement of such Work, in accordance with the requirements of subsection GC 3.09, Subcontracting by the Contractor, the Owner shall pay the cost of Work on a Time and Material Basis by the Subcontractor calculated as if the Contractor had done the Work on a Time and Material Basis, plus a markup calculated on the following basis:
- a) 20% of the first \$3,500; plus
 - b) 15% of the amount from \$3,500 to \$12,000; plus
 - c) 5% of the amount in excess of \$12,000.
- .02 No further markup shall be applied regardless of the extent to which the work is assigned or sublet to others. If Work is assigned or sublet to an associate, as defined by the Securities Act, no markup whatsoever shall be applied.

GC 8.02.05.09 Submission of Invoices

- .01 At the start of the Work on a Time and Material Basis, the Contractor shall provide the applicable labour and Equipment rates not already submitted to the Contract Administrator during the course of such Work.
- .02 Separate summaries shall be completed by the Contractor. Each summary shall include the Change Directive or Change Order number and covering dates of the Work and shall itemize separately the labour, Materials, and Equipment. Invoices for Materials, Rented Equipment, and other charges incurred by the Contractor on the Work on a Time and Material Basis shall be included with each summary.
- .03 Each month the Contract Administrator shall include with the monthly progress payment certificate, the costs of the Work on a Time and Material Basis incurred during the preceding month all in accordance with the contract administrative procedures and the Contractor's invoice of the Work on a Time and Material Basis.
- .04 The final summary as per clause 8.02.05.09.02 shall be submitted by the Contractor within 60 Days after the completion of the Work on a Time and Material Basis.

GC 8.02.05.10 Payment Other Than on a Time and Material Basis

- .01 Clause GC 8.02.05 does not preclude the option of the Contract Administrator and the Contractor negotiating a Lump Sum Item or unit price payment for Change in the Work, Extra Work, and Additional Work.

GC 8.02.05.11 Payment Inclusions

- .01 Except where there is agreement in writing to the contrary, the compensation, as herein provided, shall be accepted by the Contractor as compensation in full for profit and all costs and expenses arising out of the Work, including all cost of general supervision, administration, and management time spent on the Work, and no other payment or allowance shall be made in respect of such Work.

GC 8.02.06 Final Acceptance Certificate

- .01 After the acceptance of the Work or, where applicable, after the Warranty Period has expired, the Contract Administrator shall issue the Final Acceptance Certificate. The Final Acceptance Certificate shall not be issued until all known deficiencies have been adjusted or corrected, as the case may be, and the Contractor has discharged all obligations under the Contract.

GC 8.02.07 Records

- .01 The Contractor shall maintain and keep accurate Records relating to the Work, Changes in the Work, Extra Work, Additional Work and claims arising therefrom. Such Records shall be of sufficient detail to support the total cost of the Work, Changes in the Work, Extra Work, Additional Work and claims arising therefrom. The Contractor shall preserve all such original Records until 12 months after the Final Acceptance Certificate is issued or until all claims have been settled, whichever is longer. The Contractor shall require that Subcontractors employed by the Contractor preserve all original Records pertaining to the Work, Changes in the Work, Extra Work, Additional Work and claims arising therefrom for a similar period of time.
- .02 The Owner may inspect and audit the Contractor's Records relating to the Work, Changes in the Work, Extra Work, and Additional Work at any time during the period of the Contract. The Contractor shall supply certified copies of any part of its Records required, whenever requested by the Owner.

GC 8.02.08 Taxes

- .01 Where a change in Canadian Federal or Provincial taxes occurs after the date of tender closing for this Contract, and this change could not have been anticipated at the time of Tender, the Owner shall increase or decrease Contract payments to account for the exact amount of tax change involved.
- .02 Claims for compensation for additional tax cost shall be submitted by the Contractor to the Contract Administrator on forms provided by the Contract Administrator to the Contractor. Such claims for additional tax costs shall be submitted not less than 30 Days after the date of Final Acceptance.
- .03 Where the Contractor benefits from a change in Canadian Federal or Provincial taxes, the Contractor shall submit to the Contract Administrator, on forms provided by the Contract Administrator, a statement of such benefits. This statement shall be submitted not later than 30 Days after Final Acceptance.
- .04 Changes in Canadian Federal or Provincial taxes that impact upon commodities, which when left in place form part of the finished Work, or the provision of services, where such services form part of the Work and where the manufacture or supply of such commodities or the provision of such services is carried out by the Contractor or a Subcontractor, are subject to a claim or benefit as detailed above. Services in the latter context means the supply and operation of Equipment, the provision of labour, and the supply of commodities that do not form part of the Work.
- .05 The Contractor shall add the Harmonized Sales Tax (HST) to all invoices.

GC 8.02.09**Liquidated Damages**

- .01 When liquidated damages are specified in the Contract and the Contractor fails to complete the Work in accordance with the Contract, the Contractor shall pay such amounts as are specified in the Contract Documents.

SECTION 5

SPECIAL PROVISIONS

Item No. 1 – Removal of Existing Asphalt Driveways

Section 1 – Scope

- (a) This specification covers the removal and disposal of existing asphalt driveway as indicated on the contract drawings or as directed by the Contract Administrator.

Section 2 – Applicable References

- (a) Ontario Provincial Standard Specifications (OPSS) – MUNI 180, 501, MUNI 510

Section 3 – Material

- (a) HL-4 Asphalt

Section 4 – Construction

- (a) Remove existing asphalt roadway and asphalt driveways as shown on Contract Drawings.
- (b) Neatly sawcut removal extents of existing asphalt to produce a clean, straight, sharp edge adjacent to the existing asphalt.
- (c) Dispose of material off-site.
- (d) Connection of new asphalt to existing asphalt is to be made using a butt connection on each asphalt driveway connection at the locations indicated on the Contract Drawings. Ensure that remaining asphalt edge is straight and clean after removal. Re-cut damaged edges at no extra cost to the Owner.
- (e) Asphalt edges are to be temporarily ramped with HL-4 asphalt until new asphalt is placed.
- (f) Compact existing granular material once asphalt is removed.

Section 5 – Measurement for Payment

Measurement is by Actual Measurement and shall be based on square metres of asphalt removed.

Section 6 – Basis of Payment

Payment at the contract price for the above tender item shall be full compensation for all labour, equipment, and material to do the work.

Item No. 2 – Removal of Culverts of Various Sizes

Section 1 – Scope

- (a) This specification covers the removal and disposal of culverts of various size, and all associated backfill work, as indicated on the contract drawings or as directed by the consultant.
- (b) Maintain existing flow as further detailed in “New 600mm dia. HDPE Culverts”.
- (c) Contractors shall assume that the complete removal of the culvert will be required. Some short sections may instead be abandoned as instructed on site where it is advantageous to do so (for example, due to conflicts with other infrastructure and/or utilities).

Section 2 – Applicable References

- (a) Ontario Provincial Standard Specifications (OPSS) – MUNI 180, 501, MUNI 510, MUNI 1010.

Section 3 – Material

- (a) Backfill – Select subgrade material per OPSS MUNI 1010.
- (b) Non-shrink grout, Minimum strength 8.3 Mpa.

Section 4 – Construction

- (a) Remove culverts as shown on Contract Drawings or as directed by the Contract Administrator. Backfill excavated area with select subgrade material compacted to 95% SPD.
- (b) Abandon sections of culvert as indicated on Contract Drawings or as directed by the Contract Administrator. Plug ends of pipe to be abandoned full in diameter with non-shrink grout. Grout to extend a minimum of one meter of pipe length.
- (c) Dispose of material off-site.

Section 5 – Measurement for Payment

Measurement is by Actual Measurement and shall be based on lineal meter of culvert removed.

Section 6 – Basis of Payment

Payment at the contract price for the above tender item shall be full compensation for all labour, equipment, and material to do the work.

Item No. 3 – Common Excavation & Grading

Section 1 – Scope

- (a) This specification covers the requirements to excavate and dispose of earth, concrete (all types), boulders and any other obstructions encountered during excavation for the reinstatement of the new roadway, and curbs.
- (b) There shall be no compensation for boulder removal.
- (c) Rock removal is not included in common excavation.

Section 2 – Applicable References

- (a) Ontario Provincial Standard Specifications (OPSS) – MUNI 180, MUNI 206, MUNI 401, MUNI 490, MUNI 491, MUNI 492, MUNI 501, MUNI.1010.
- (b) Occupational Health and Safety Act (OH&S) and Regulations which apply under this Act, including Regulations for Construction Projects.
- (c) Technical Standards and Safety Act, 2000 and Ontario Regulation 210/01 Oil and Gas Pipeline System and other regulations which apply under this act.
- (d) Electricity Act, 1998 and the Ontario Regulation 22/04 Electrical Distribution Safety Regulation and other regulations which apply under this Act.

Section 3 – Materials

- (a) Select Subgrade Material (backfill) as per OPSS MUNI 1010.

Section 4 – Construction

- (a) Before commencing work, Contractor is to verify conditions of all buried services, including Bell, cable, hydro, gas, and any other buried infrastructure. Contractor is to arrange with appropriate authorities for relocation of the buried services that interfere with execution of the work.
- (a) Prior to beginning excavation, Contractor is to confirm location of all buried utilities by soil hydrovac methods, or hand digging.
- (b) Contractor is to record locations of all maintained, re-routed, and abandoned underground utilities.
- (c) In any area of new construction, all topsoil and organic material is to be removed prior to placing granular material.
- (d) Prepare subgrade material according to the design profile and cross-section as specified on the Contract Drawings. Subgrade is to be compacted to 95% SPD.
- (e) Excavate areas of existing granular road base as per the cross-sections specified in the contract drawings or as directed by the Contract Administrator.

- (f) The contractor shall manage his excavation, fill, and grading to ensure that there is not a shortfall of fill material for areas requiring fill on site. Should the contractor cause a shortfall, he will be required to transport material back to site or import material that is satisfactory to the Contract Administrator. The excavation, transportation, placement, and grading of this material will be at no additional cost to the contract. Fill material shall be placed in maximum 200mm lifts compacted to 95% SPD.
- (g) Shall the Contractor disturb any legal survey monuments, they shall coordinate, and pay for the replacement of the monuments by a register Ontario Land Surveyor.
- (h) Contractor is responsible for soil management plan.

Support of Gas Pipelines – Perpendicular to Excavation

- (a) Before trenching beneath a main or service, temporary support must be erected for pipelines if the unsupported span of pipe in the trench exceeds the length indicated in the table below:

Table 4-1: Maximum Span without Support Beam

Pipe Size (NPS)	Steel m (ft.)	PE (polyethylene) m (ft.)
½	2 m (6.6 ft.)	1 m (3.3 ft.)
¾ - 1¼	2.5 m (8.2 ft.)	1.25 m (4.1 ft.)
2	3 m (10 ft.)	1.5 m (5 ft.)
3 to 4	4.5 m (15 ft.)	1.75 m (6 ft.)
6	6 m (20 ft.)	2 m (7 ft.)
8	7 m (23 ft.)	2 m (7 ft.)

- (b) When temporary support is required, Table 4-2 below indicates the required beam for a given span. The beam must be a continuous length grade No. 1 Spruce-Pine-Fir (S-P-F) or equivalent. For spans exceeding 4.5 m (15 ft.), a continuous length timber beam may not be available. In that case, steel I-beams (or equivalents) can be used as the support beam. Steel beam selection must be certified by a Professional Engineer.

Table 4-2: Support Beam Sizes and Maximum Span Between Beam Supports

Pipe Size (NPS)	Steel		PE	
	≤ 2 m (≤ 6.6 ft.)	≤ 4.5 m (≤ 14.7 ft.)	≤ 2 m (≤ 6.6 ft.)	≤ 4.5 m (≤ 14.7 ft.)
½ - 2	Nil	4 x 6	4 x 4	4 x 6
3 - 6	Nil	Nil	4 x 4	6 x 6

- (c) The beam must be placed above the pipe with the ends of the beam resting on firm undisturbed soil. The beam must not bear directly on the gas line. The pipe must be supported from the beam with rope, canvas sling or equivalent in a manner that will prevent damage to the pipe or coating and eliminate sag. The spacing between the

ropes must not exceed 1 m (3.3 ft.) (refer to Figure 4-1: Support of Gas Pipelines Crossing Excavations).

- (d) Backfill material underneath the exposed pipeline must be compacted to a minimum of 95% standard Proctor density. Sand padding must be placed to a level 150 mm (6 in.) below and above the main. See Section 6.0 Backfilling for additional details.
- (e) Perform compaction with the loose lift height not exceeding 200 mm (8 in.) or one-quarter of the trench width, whichever is less. Injecting water into the backfill beneath the pipe is not an acceptable method of compaction.
- (f) All temporary support on pipelines must be removed before backfilling.
- (g) Adequate support must remain in place until the backfill material has restored support.

Support of Gas Pipelines – Parallel to Excavation

- (a) Trench wall support may not be required for excavations less than 1.2 m (4 ft.) deep. In this case support is not required if the pipeline is at least 0.6 m (2 ft.) from the edge of the excavation or outside the 45° line projected upward from the trench bottom (refer to Figure 4-2: Influence Lines for Gas Pipelines Adjacent to Excavations).
- (b) If the pipe does not meet these requirements and the soil is soft clay or sand (soil types 3 and 4), the excavation must be suitably shored to prevent movement of the pipe.
- (c) The shoring must remain in place until the backfill material has restored support.
- (d) Trench wall support is required for excavations with the following conditions: depth is equal or greater than 1.2 m (4 ft.), the pipeline is closer to the edge of the excavation than the minimum allowed distance indicated in Table 4-3: Minimum Allowed Distance from Main to Excavation, or the soil is unstable.
- (e) Table 4-3: Minimum Allowed Distance from Main to Excavation gives minimum distances from the edge of the trench to the pipeline in which the excavation influences pipelines. The pipeline must be supported if these minimum distances cannot be met.:

Table 4-3: Minimum Allowed Distance from Main to Excavation

Minimum Allowed Distance from Main to Excavation		
Trench Depth (m)	Soils* Type 1 & 2	Soils* Type 3 & 4
≥ 1.2 m (3.9 ft.)	0.9 m (3 ft.)	0.9 m (3 ft.)
≥ 1.5 m (4.9 ft.)	0.9 m (3 ft.)	0.9 m (3 ft.)
≥ 1.8 m (5.9 ft.)	0.9 m (3 ft.)	0.9 m (3 ft.)
≥ 2.1 m (6.9 ft.)	0.9 m (3 ft.)	0.9 m (3 ft.)
≥ 2.4 m (7.9 ft.)	0.9 m (3 ft.)	0.9 m (3 ft.)
≥ 2.7 m (8.9 ft.)	0.9 m (3 ft.)	1 m (3.3 ft.)
≥ 3 m (9.8 ft.)	0.9 m (3 ft.)	1.5 m (4.9 ft.)
≥ 3.3 m (10.8 ft.)	0.9 m (3 ft.)	1.8 m (5.9 ft.)
≥ 3.6 m (11.8 ft.)	0.9 m (3 ft.)	2.2 m (7.2 ft.)
≥ 3.9 m (12.8 ft.)	0.9 m (3 ft.)	2.5 m (8.2 ft.)
≥ 4.2 m (13.8 ft.)	0.9 m (3 ft.)	3 m (9.8 ft.)
≥ 4.5 m (14.8 ft.)	1 m (3.3 ft.)	3.4 m (11.2 ft.)
≥ 4.8 m (15.7 ft.)	1.5 m (4.9 ft.)	3.8 m (12.5 ft.)
≥ 5.1 m (16.7 ft.)	2 m (6.6 ft.)	4.1 m (13.5 ft.)
≥ 5.4 m (17.7 ft.)	2.5 m (8.2 ft.)	4.6 m (15.1 ft.)
≥ 5.7 m (18.7 ft.)	3 m (9.8 ft.)	5 m (16.4 ft.)
≥ 6 m (19.7 ft.)	3.4 m (11.2 ft.)	5.5 m (18 ft.)
*as defined in the Occupational Health and Safety Act		

- (f) For pipelines where the trench bottom is below the water table, the trench must be suitably shored as required in Section 4.3 Support of Pipelines Parallel to Excavation.
- (g) For pipelines within the minimum distances given in Table 4-3: Minimum Allowed Distance from Main to Excavation, shoring must remain in place until backfill material restores support.
- (h) Any pipeline that is exposed for a length greater than indicated in Table 4-1: Maximum Span without Support Beam must require a field assessment.

Figure 4-1: Support of Gas Pipelines Crossing Excavations

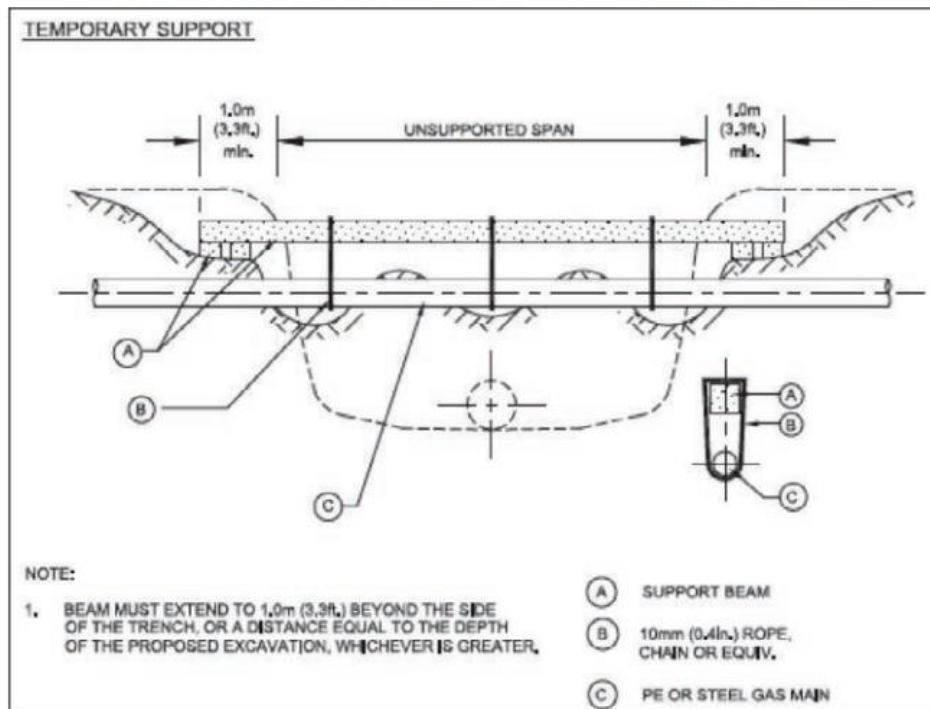
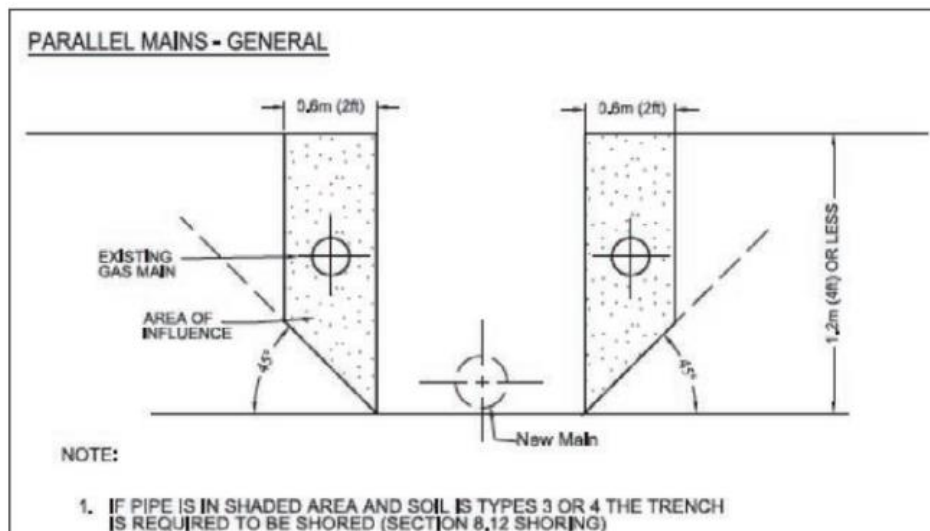


Figure 4-2: Influence Lines for Gas Pipelines Adjacent to Excavations



Support of Gas Pipelines – Backfilling

- (a) The gas pipeline must be inspected by Enbridge for damages before backfilling the excavation. It is the Excavator's responsibility to ensure that the gas pipeline is not undermined or endangered in any way. If any damage occurs, contact Enbridge immediately at the Emergency phone number: 1-866-763-5427.

- (b) Backfilling must be done in such a manner as to prevent any rocks from being placed at or near the surface of the pipe. Native excavated material must be used as backfill unless otherwise directed by Enbridge. Where native material is unsuitable, 150 mm (6 in.) of approved earth or sand padding must be placed over the pipe for protection. Topsoil must not be used for backfilling.
- (c) Aggregate backfill must be replaced in 300 mm (12 in.) layers. Each layer must be thoroughly compacted by pneumatic tampers or an equivalent method acceptable to EGD to ensure no settlement.
- (d) The final layer must be smoothed down with a grader (or a rake for small scale projects) and must be tamped flush or slightly higher than the surrounding ground surface in order to prevent ponding of water and accommodate any future soil subsidence over the trench line.
- (e) Backfilling a flooded trench will not be allowed. The Constructor is responsible for the removal of water from the trench, before backfilling. If backfilling on a slope, backfill must be first placed from the bottom of the slope, working upwards. This will prevent large voids in the backfill which can occur when the backfill is dumped from the top of a slope.
- (f) Unshrinkable fill or other engineered backfill material must be installed only directed by Enbridge. The pipe and valve assemblies must be sand padded before placement of unshrinkable fill. The Contractor must ensure that placement of the unshrinkable fill does not displace sand padding or directly contact the pipeline.

Excavation in Proximity of Utility Poles

- (a) Temporary support of utility poles by Rideau St. Lawrence will be required to complete the work where excavation is proposed within 1.5 m of the utility pole.
- (b) Refer to “Temporary Support of Utility Poles” item Special Provision for additional information related to this work.

Section 5 – Measurement for Payment

Measurement is by the Lump Sum and will be pro-rated based on the total percent of the work complete to date.

Section 6 – Basis of Payment

Payment at the contract price for the above tender item shall be full compensation for all labour, equipment, and material to do the work.

Item No. 4 – Bedrock Excavation (Provisional)

Section 1 – Scope

- (a) This specification covers the requirements to excavate rock as required to install new culvert per OPSS MUNI 403.
- (b) The use of explosives (rock blasting) is not permitted.
- (c) Only solid rock which may not be removed by heavy duty excavating equipment shall be considered rock excavation.

Section 2 - Applicable References

- (a) Ontario Provincial Standard Specifications (OPSS) – MUNI 180, MUNI 206, MUNI 403

Section 3 - Materials

- (a) N/A

Section 4 – Construction

- (a) Remove rock as required to install new culverts in lines and grades shown on the Contract Drawings.
- (b) Rock removal procedures shall produce a uniform, stable excavation surface with minimal overbreak. Lines and grades shall be 200mm (minimum) below the pipe invert.
- (c) The Contract Administrator is to be made aware of rock removal; the Contractor is to correct unauthorized rock removal at no extra cost to the Owner.

Section 5 – Measurement of Payment

Measurement is by measured quantity. Measurement shall be based on cubic metres of rock excavated, determined as the product of the following dimensions, measured in place:

- (a) Height – The original 'top of rock' elevation is to be recorded after overburden has been removed, but before rock excavation commences. The underside of rock is considered to be 200mm below pipe invert.
- (b) Width – The trench width of rock excavation is to be the outside diameter of the pipe plus 800mm. For structures, the trench width shall be the outside diameter of the structure, plus 900mm around.
- (c) Length – The length of rock excavation is measured horizontally along the centerline of the trench.

The volume in cubic metres shall be determine by the Contract Administrator as a product of the three dimensions above.

Section 6 – Basis of Payment

Payment at the contract price for the above tender item shall be full compensation for all labour, equipment, and material to do the work.

Item No. 5, 10 – 600mm dia. HDPE Culvert and Concrete Headwall

Section 1 – Scope

- (a) This specification covers the requirements for the installation of culverts of various sizes. Included in this item is the excavation for the sewer installation and all bedding, surround, cover and backfill materials.

Section 2 – Applicable References

- (a) Ontario Provincial Standard Specifications (OPSS) –MUNI 180, MUNI 206, MUNI 401, MUNI 403, MUNI 404, MUNI 409, MUNI 410, MUNI 411, MUNI 501 MUNI 517, MUNI 518, MUNI 539, MUNI 1820, MUNI 1840, MUNI 1841

Section 3 - Materials

- (a) Storm culverts to be HDPE to CSA B182.8, minimum pipe stiffness of 320kPa.
- (b) Each pipe shall be marked CSA approved as outlined in respective OPSS sections.
- (c) Pipe bedding, surround, and cover is to be Granular “A” (OPSS MUNI 1010) material to depths as indicated on the contract drawings. Backfill is to be select subgrade material (OPSS MUNI 1010).
- (d) Marmac DP couplers for various connections of dissimilar pipe materials

Section 4 - Construction

- (a) Provide all materials, equipment, and labor required to install culverts in accordance with the contract drawings.
- (b) Pipe bedding, surround, cover and backfill materials are to be included in this item.
- (c) Excavate trenches to lines, grades, and dimensions as specified on the Contract Drawings. The Contract Administrator shall be notified immediately if the bottom of the trench appears to give an unsuitable foundation. The bottom of the trench is to be free of organics, rock, boulders, cobbles, existing pipes, etc.
- (d) If the trench depth is excavated beyond the limits of the required excavation, without the Contract Administrators authorization, Type II Granular “B” shall be placed and compacted at no additional cost to the owner.
- (e) Contractor is responsible to provide all shoring and bracing as per MUNI OPSS 404.
- (f) Contractor is responsible for dewatering the excavation, controlling, and maintaining storm and sanitary sewer flow as per OPSS MUNI 517. At no time may surface water be disposed into a sanitary sewer. Shall it be required under certain site conditions; direction must be provided by the Contract Administrator to filter all sediments from the water prior to discharging.
- (g) Supply and place Granular ‘A’ bedding material to 95% SPD to depths as indicated on Contract Drawings. Surround and Cover material shall be placed to 300mm

above pipe and compacted to 95% SPD. All granular materials shall be placed in maximum 150mm lifts.

- (h) Supply and place granular material as required to install new frost tapers as per O.P.S.D. 803.030 in locations specified in the contract drawings.
- (i) Connect new culvert to existing culvert using a flexible coupler. (Fernco or approved equivalent).
- (j) Backfill material shall be as per OPSS 1010 (select subgrade material). Place backfill material in an unfrozen condition. Place backfill material above pipe cover in uniform layers not exceeding 300mm compacted thickness to achieve subgrade elevation. Backfill material is to be compacted to 95% SPD.
- (k) Prior to acceptance of the sewers, all culverts sewers are to be cleaned and have a CCTV inspection completed as per OPSS 409. Camera inspection is to have pan and tilt capabilities. Provide, to the Consultant, a color digital video and a report documenting the condition of the sewer (2 copies of video, 1 copy of report) which reports all installation defects, leaks, etc. The report shall have manholes and structures numbered in accordance with the Contract Drawings.

Section 5 – Measurement for Payment

Measurement is by Actual Measurement and shall be based on length (in meters) along the horizontal centerline length of the pipe. Measurement of concrete headwall shall be based on each concrete headwall installed.

Section 6 – Basis of Payment

Payment at the contract price for the above tender item shall be full compensation for all labour, equipment, and material to do the work.

Item No. 6, 7 – Granular ‘A’, ‘B’

Section 1 – Scope

- (a) This specification covers the requirements for providing, placing, and grading Granular ‘B’ & Granular ‘A’ material for driveway sub-base as shown in the contract drawings.
- (b) Fine grading of Granular ‘A’ material is not included in this item and will be paid for under “Hot Mix Asphalt”.
- (c) Any additional granular material required for the project will not be included in this item as they are included in their associated item. (i.e., granular material for sewers etc.)

Section 2 – Applicable References

- (a) Ontario Provincial Standard Specifications (OPSS) – MUNI 102, MUNI 206, MUNI 314, MUNI 501, 1001, MUNI 1010

Section 3 – Materials

- (a) Granular ‘A’ as per OPSS.MUNI 1010, quarry source
- (b) Granular ‘B’ Type II as per OPSS.MUNI 1010, quarry source

Section 4 - Construction

- (a) Verify conditions and approval of subgrade with Contract Administrator prior to placing granular sub-base.
- (b) Ensure granular material is free from clay and other types of deleterious material.
- (c) Provide, place, grade and compact to 100% SPD Granular ‘B’ and Granular ‘A’ material in lifts no greater than 150mm for road sub-base and base reinstatement for granular and asphalt road cuts. Supply water as necessary after placement to achieve the degree of compaction required.
- (d) Granular ‘B’ material shall be placed and graded for road sub-base reinstatement to a minimum depth of 300mm or as required to match existing conditions as specified in the Contract Documents.
- (e) Contract Administrator is to review placement of Granular ‘B’ and provide approval of sub-base prior to placement of Granular ‘A’. A tolerance of within 20 mm of the design profile and cross-section will be allowed for the Granular ‘B’ subbase (not uniformly high or low).
- (f) Granular ‘A’ material shall be placed and graded according to the design profile and cross-section as specified in the Contract Drawings.

- (g) Granular 'A' material shall be placed and compacted at locations required for shoulders as specified in the Contract Drawings.

Section 5 – Measurement of Payment

Measurement is by Actual Measurement and will be based on tonnes of granular material placed.

Section 6 – Basis of Payment

Payment at the contract price for the above tender item shall be full compensation for all labour, equipment, and material to do the work.

Item No. 8 – Hot Mix Asphalt

Section 1 – Scope

- (a) This specification covers the requirements to fine grade Granular 'A' material, shape the road base, supply, mix, and place HL-4 asphalt for parking lot reinstatement in width and thickness as shown on the Contract Drawings, and supply, mix and place asphalt ramping.
- (b) General construction and rough grading of the roadway granular base is not included in this item.
- (c) Asphalt mix design is to be provided to the Contract Administrator for review at least 2 weeks prior to placing asphalt, in accordance with OPSS 310.

Section 2 – Applicable References

- (a) Ontario Provincial Standard Specifications (OPSS) – MUNI 102, MUNI 206, MUNI 310, MUNI 311, MUNI 314, MUNI 501, MUNI 1001, MUNI 1003, MUNI 1010, MUNI 1103, MUNI 1150 (Latest edition)

Section 3 – Materials

- (a) Granular 'A' as per OPSS.MUNI 1010, quarry source
- (b) HL-4 Asphalt as per OPSS 1150, grade PG 58-34, compacted thickness as shown on contract drawings.
- (c) Tack Coat SS-1 or RS-1 as per OPSS 1103, depending on the time of year that asphalt is placed.

Section 4 - Construction

- (a) Reshape and fine grade granular roadbed and lay-by and compact granular material to 100% SPD.
- (b) Ensure granular base surface is clean, free of foreign material prior to placing asphalt. Obtain Contract Administrator's approval of base conditions prior to placing asphalt.
- (c) Ensure all existing asphalt and concrete edges are sawcut and/or milled as shown on contract drawings, or as directed by the Contract Administrator. At any butt joints shown on the contract drawings; a straight, perpendicular, and clean edge shall be sawcut.
- (d) Install tack coat on all milled surfaces and on vertical surfaces (curb, asphalt, etc.) abutting new asphalt. Ensure that these surfaces are clean, free of foreign material prior to applying tack coat.

-
- (e) Fine grade granular 'A' roadbed and lay-by and compact granular material to 100% SPD. Supply water as necessary after placement to achieve the degree of compaction required. Obtain Contract Administrators approval before paving.
 - (f) Prior to placing asphalt, the Contractor is to ensure that the required compaction equipment is on site for a production rate of 120 t/h as outlined in OPSS 310.
 - (g) Operational constraints are as outlined in OPSS 310. Asphalt paving shall not be carried out if:
 - i. Granular roadbed and/or lay-by is frozen.
 - ii. There is standing water/snow on the granular roadbed and/or lay-by.
 - iii. The surface of a pavement upon which asphalt is to be placed is not dry at the time of placing asphalt.
 - iv. An asphalt course shall not be placed on a previously placed asphalt course until a minimum of 4 hours have elapsed following final compaction of the previous course, and the temperature of the previous course is 50°C or less.
 - v. Base course shall not be placed unless the air temperature at the surface of the road is a minimum of 2°C and rising.
 - vi. For surface course, the air temperature at the surface of the road shall be at least 7°C.
 - (h) Place asphalt to thicknesses (maximum 55mm lifts), grades, and lines as indicated in the contract drawings. Compact asphalt to a minimum of 92% maximum relative density.
 - (i) Prior to seasonal shut down, contractor to place asphalt ramping such that all curb faces, driveway entrances, structures, and asphalt tie-in points are protected from winter operations.

Section 5 – Measurement of Payment

Measurement is by Actual Measurement and will be based on tonnes of asphalt placed. Measurement is by actual measurement for the granular material placed for fine grading and will be paid for in item 7.

Section 6 – Basis of Payment

Payment at the contract price for the above tender item shall be full compensation for all labour, equipment, and material to do the work.

Item No. 9 – Rip-Rap c/w Geotextile

Section 1 – Scope

- (a) This specification covers the requirements to provide and place rip-rap material in locations shown in the contract drawings or as directed by the Contract Administrator.

Section 2 – Applicable Reference

- (a) Ontario Provincial Standard Specifications (OPSS) – 102, 511, 1001, MUNI 1004, 1801, 1860.

Section 3 – Materials

- (a) Rip-Rap as per OPSS.MUNI 1004 R-50
- (b) Nonwoven, Class II Geotextile as per OPSS 1860

Section 4 – Construction

- (a) Excavate area for rip-rap and dispose of surplus material off-site.
- (b) Provide and place Nonwoven, Class II Geotextile as per OPSS 1860, under all areas where rip-rap is to be placed. Geotextile shall be overlapped a minimum of 600mm.
- (c) Provide and supply Rip-Rap as per OPSS.MUNI 1004 R-50 in all areas shown in the contract drawings or as directed by the Engineer.

Section 5 – Measurement for Payment

Measurement is by Actual Measurement and will be based on tonnes of rip-rap material placed.

Section 6 – Basis of Payment

Payment at the contract price for the above tender item shall be full compensation for all labour, equipment, and material to do the work.

Item No. 11 – Topsoil and Sod

Section 1 – Scope

- (a) This section covers the requirement for the installation of topsoil and sod on surfaces as shown in the contract drawings or as directed by the Consultant.

Section 2 – Applicable Reference

- (a) Ontario Provincial Standard Specifications (OPSS) – MUNI 802, MUNI 803

Section 3 – Materials

- (a) Topsoil shall be a fertile loam material as per OPSS 802. Topsoil shall be free of roots, vegetation, or other debris of a size and quantity that prevents proper placement of the topsoil. The topsoil shall not contain material greater than 25 mm in diameter.
- (b) Sod shall be an approved number 1 sod founded on a mineral soil well permeated with roots. The grass height shall be 20mm minimum and 40mm maximum.
- (c) Stakes for fastening sod to earth grade shall be a minimum 150 mm in length. Typical approximately 19 x 19 x 300 mm.
- (d) Fertilizer shall be in granular form, dry, free flowing without lumps. Fertilizer shall be supplied with a guaranteed analysis ratio of 3-1-2 (nitrogen, phosphorus, potash).

Section 4 – Construction

- (a) Verify condition and grade of grounds to be top soiled with Contract Administrator prior to placing topsoil. Ensure surface is free from vegetation, debris, and stones which would not be covered by the depth of topsoil.
- (b) Verify condition and grade of grounds to be sodded with Contract Administrator prior to placing sod. Ensure surface is uniformly cultivated to a minimum depth of 50mm and shall not have surface materials greater than 25 mm in size.
- (c) Place topsoil to a minimum compacted thickness of 100 mm in areas as shown in the contract drawings or as directed by the Contract Administrator. Fine grade topsoil to have a smooth even grade in accordance with the contract drawings.
- (d) Apply fertilizer uniformly to the area to be sodded at a time not more than 48 hours before the sod is placed. The fertilizer shall be applied at a rate of 5 kg of fertilizer per 100 square metres of surfaces area and incorporated into the surface by raking, disking or harrowing.
- (e) Place sod in locations as specified in the contract drawings or as directed by the Contract Administrator. Sod should be laid closely knit together to ensure no voids are left between the soil portion of the sod and the underlying ground surface.

- (f) End joints of the adjacent sod pieces shall be staggered to key into existing grass or as directed by the Contract Administrator.
- (g) Roll sod after placing and maintain for at least 30 days following placement to keep healthy, actively growing, and green (i.e., water as required). Contractor to replace any dead sod as required at own cost.
- (h) Provide three stakes in each piece of sod, with one stake at the centre and two 100mm from each end where the sod is placed on slopes of 3H:1V or steeper.

Maintenance of Completed Sodding

- (i) Sod shall be maintained for 30 days following completion of placement. Sod shall be kept healthy, actively growing, and green in leaf colour.
- (j) Water sod as required.

Quality Assurance

- (k) Contract Administrator will inspect sodded areas at the end of the 30-day maintenance period. Sod shall be in the same location as originally placed and shall not have moved, eroded, slipped or sloughed. Sod shall show evidence of rooting into the underlying soil. Sod shall be of sufficient density that no surface soil is visible and there shall be no competitive growth and no bare/dead spots.
- (l) Re-apply specified materials in areas not meeting the above requirements.
- (m) Replaced sod shall be subject to the requirements specified herein and to a further maintenance period of 30 days.

Section 5 – Measurement for Payment

Measurement is by Actual Measurement and shall be based square metres of topsoil and sod placed.

Section 6 – Basis of Payment

Payment at the contract price for the above tender item shall be full compensation for all labour, equipment, and material to do the work.

Item No. 12 – Sediment and Erosion Control

Section 1 – Scope

- (a) This specification covers the requirement for the supply and install silt fencing in locations as indicated on contract drawings.

Section 2 – Applicable Reference

- (a) Ontario Provincial Standard Specifications (OPSS) – MUNI 506, 2501

Section 3 - Materials

- (a) New light duty silt fence barrier as per O.P.S.D. 219.110. Geotextile for silt fence shall be as per OPSS 1860, Table 3.
- (b) New straw bale check flow dams as per OPSD 219.180. Straw bales shall consist of wheat or oat straw, be dry and firm, be tied tightly in at least two places, show no evidence of straw or tie decay, and be free of sediment.

Section 4 – Construction

- (a) Supply and install silt fencing in all locations indicated on contractor drawings or as requested by contract administrator to control silt throughout construction.
- (b) Supply and install straw bale check flow dams in all locations indicated on contractor drawings or as requested by contract administrator to control silt throughout construction.
- (c) Sediment and erosion control devices shall be monitored and replaced as directed by contract administrator until such time that the site has been revegetated.

Section 5 – Measurement for Payment

Measurement is by Actual Measurement and shall be in a lump sum for the sediment and erosion control measures installed.

Section 6 – Basis of Payment

Payment at the contract price for the above tender item shall be full compensation for all labour, equipment, and material to do the work.

Item No. 13 – Lump Sum for Other Requirements**Section 1 – Scope**

- (a) This section covers the requirement for a lump sum to cover all other costs not included in the other items here in, and as further detailed below.
- (b) Any costs associated with tender deposits, bonds, and insurance,
- (c) All cost associated with layout of the project as described in Section “1.30 – Layout”, of the ‘Information for Tenderers’,
- (d) All costs associated with the supply and maintenance of the office trailer for the Consultant, at a location acceptable to the Consultant. The trailer shall be minimum 20m² and be equipped as follows:
 - i. Heating and cooling system capable of maintaining an ambient temperature of 20⁰ C at all times,
 - ii. A 100-amp electrical service,
 - iii. One filing cabinet with locking mechanism,
 - iv. One 1.2 m x 1.8 m (minimum) desk with chair, for use by Consultant,
 - v. One 1.2 m x 2.4 m (minimum) meeting table with eight chairs,
 - vi. One properly maintained, suitable and convenient privy or water closet,
- (e) All costs associated with completing redline “as-built” drawings as described in Section “1.31 – As-Built Records” of the ‘Information for Tenderers’,
- (f) All costs associated with surveying of surface features at the completion of the project as described in Section “1.31 – As-Built Records” of the ‘Information for Tenderers’,
- (g) All costs associated with coordination with property owners as described in Section “1.32 – Coordination with Property Owners” of the ‘Information for Tenderers’,
- (h) All costs associated with coordination of utility locates and relocations,
- (i) All costs associated with coordination with RSL for temporary support of utility poles,
- (j) All costs associated with receiving permits, approvals, inspectors, etc. from the various governing agencies,
- (k) All general overhead costs on any item that has not been included in Section “2.1 - Schedule of Items and Prices” of the Form of Tender shall be included as part of this item.
- (l) All associated costs for any additional work required to complete any item included in section “2.1 - Schedule of Items and Prices” of the Form of Tender shall be included as part of this item only if the required work is not described in the item’s specifications.

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- (m) All cost associated with attending preconstruction meeting and periodic construction meetings for the duration of the project shall be included in this item. One construction meeting for every two working weeks is to be expected.
 - (n) Contractor to provide contract administrator with proper invoices should they request payment prior to the completion of the project on any of the above-described costs.

Section 2 – Applicable Reference (N/A)

Section 3 – Materials (N/A)

Section 4 – Construction (N/A)

Section 5 – Measurement for Payment

Measurement is by the lump sum and will be pro-rated based on the total percent of the work complete to date. Contractor may instead provide contract administrator with proper invoices should they request payment greater than the pro-rated value of this item.

Section 6 – Basis of Payment

Payment at the contract price for the above tender item shall be full compensation for all labour, equipment, and material to do the work.