



THE CORPORATION OF THE TOWN OF IROQUOIS FALLS

TENDER 2026-RFT-REC-06

DEVONSHIRE PARK REVITALIZATION

DATE ISSUED: Friday, June 12, 2026

CLOSING: Friday, July 3, 2026
By 2:00 p.m. EST

CONTENTS

PART A - INTRODUCTION.....	5
1. INTRODUCTION.....	5
2. TENDER BID VALIDITY	6
3. MANDATORY REQUIREMENTS	6
4. AUTHORIZED CONTACT.....	7
5. SUBMISSION INSTRUCTIONS	8
6. TENDERS TO BE SUBMITTED IN PRESCRIBED FORMAT.....	8
7. PRICING.....	9
8. AMENDMENT OR WITHDRAWAL OF BIDS PRIOR TO SUBMISSION DEADLINE.....	9
9. QUESTIONS	9
10. VALIDITY PERIOD.....	10
11. SCHEDULE FOR THE BID PROCESS.....	10
12. BID OPENING.....	10
13. EVALUATION OF BIDS	10
14. AWARD.....	11
PART B - TERMS AND CONDITIONS.....	13
1. GENERAL	13
2. SAFETY CERTIFICATION	13
3. PERMITS AND LICENSES	13
4. ENVIRONMENTAL REQUIREMENTS	14
5. LAWS, ACTS, REGULATIONS, BYLAWS AND CODES.....	14
PART C - SPECIFICATIONS AND GENERAL REQUIREMENTS.....	15
1. SCOPE OF WORK	15
2. WORK BY THE TOWN'S REPRESENTATIVE.....	16
3. TENDER SPECIFICATIONS AND DRAWINGS.....	16
4. MANDATORY TECHNICAL REQUIREMENTS	17
5. GENERAL CONDITIONS	17
7. GENERAL SPECIFICATIONS.....	35
APPENDIX A	64
8. SCHEDULE OF QUANTITIES AND UNIT PRICES	68
9. PROJECTED COMPLETION DATES.....	70
10. SIGNATURES.....	71
11. SUPPLEMENTARY TENDER INFORMATION.....	72

APPENDIX B	75
PART 1 - GENERAL REQUIREMENTS	76
1. GENERAL	76
2. LUMP SUM FOR OTHER REQUIREMENTS.....	76
3. COORDINATION MEETINGS	76
4. NOTIFICATION OF NEWLY INSTALLED INFRASTRUCTURE	76
5. UTILITIES - PROTECTION AND MAINTENANCE	76
6. POWER AND WATER.....	77
7. TEMPORARY BUILDINGS AND STAGING AREAS.....	78
8. SANITARY REQUIREMENTS.....	78
9. FIRST AID.....	78
10. Survey Controls and Property Monuments.....	78
11. Safety	79
12. Hours of Work.....	80
13. As-Constructed Drawings	80
PART 2 - TRAFFIC CONTROL AND ROAD CLOSURES	82
1. TRAFFIC CONTROL AND SIGNAGE.....	82
2. ROAD CLOSURES	84
PART 3 - CONSTRUCTION SCHEDULE & PROGRESS DOCUMENTATION	85
1. CONSTRUCTION SCHEDULE AND PROGRESS DOCUMENTATION	85
PART 4 - Management of Excess Material (OPSS.MUNI 180 Supplementary Specification).....	92
1. General.....	92
2. SCOPE (180.01).....	92
3. REFERENCES (180.02).....	92
4. Definitions (180.03).....	92
5. Construction (180.07).....	93
6. MEASUREMENT FOR PAYMENT (180.09).....	99
PART 5 - Grading (OPSS.MUNI 206 Supplementary Specification).....	100
1. General.....	100
2. SCOPE (206.01).....	100
3. REFERENCES (206.02)	100
4. Construction (206.07).....	100
5. Measurement for Payment (206.09)	102
6. Basis of Payment (206.10).....	102
PART 6 - ROAD AND MISCELLANEOUS ITEMS	104

1. Road	104
2. Restoration.....	109
3. Utilities.....	109
4. Environmental	112
5. Miscellaneous Items	115
PART 7 - Concrete Sidewalk (OPSS 351 Supplementary Specification)	118
1. General.....	118
2. MATERIALS (351.05).....	118
3. CONSTRUCTION (351.07).....	118
4. MEASUREMENT FOR PAYMENT (351.09)	119
PART 8 - Trenching, Backfilling, and Compacting (OPSS 104 Supplementary Specification)	120
1. General.....	120
2. REFERENCES (401.02)	120
3. MATERIALS (401.05).....	120
4. Construction (401.07).....	120
5. Measurement for Payment (401.09)	121
6. Basis of Payment (401.10).....	121
PART 9 - PIPE SUBDRAINS (OPSS 405 Supplementary Specification).....	122
1. General.....	122
2. REFERENCES (405.02)	122
3. MATERIALS (405.05).....	122
4. Construction (405.07).....	122
PART 10 - Compacting (OPSS.MUNI 501 Supplementary Specification).....	124
1. General.....	124
2. REFERENCES (501.02)	124
3. Construction (501.07).....	124
4. Quality Assurance (501.08).....	124
5. Basis of Payment (501.10).....	124

PART A - INTRODUCTION

1. INTRODUCTION

The Corporation of the Town of Iroquois Falls (hereinafter the "Town") is currently seeking Tenders from qualified proponents to provide all labour, materials, equipment and services required to complete construction services for the revitalization of Devonshire Park, an existing municipal park located on the corner of Cambridge Avenue and Windigo Street.

1.1.THE OWNER

- a) The Corporation of the Town of Iroquois Falls ("Iroquois Falls") ("Owner") ("Town")

1.2.THE REQUEST FOR TENDER

- a) The Owner invites bids to perform the work described in this tender document and associated contract drawings. Proponents (Contractor) wishing to respond to this Request for Tender (RFT) are requested to submit a complete bid submission using the form attached as Appendix A to this RFT ("Schedule of Estimated Quantities and Unit Bid Prices"). The Successful Proponent (Contractor) will be invited to negotiate a contract for the performance of the Work, which will be based upon the municipality's standard form of contract. Consultant ("Consultant") is the Architect / Engineer qualified to practice in the Province of Ontario. Town's Representative ("Town's Representative") ("Representative") is the Town's authorized project contact and manager.

1.3.THE CORPORATION OF THE TOWN OF IROQUOIS FALLS

- a) By submitting a Bid, the Proponent (Contractor) acknowledges that this RFT process is administered by ("Owner's Representative") on behalf of the Owner, and that the Owner's Representative has no liability whatsoever to any Proponent as a result of this RFT, any matter connected with this RFT or any contract concluded as a result of this RFT. By submitting a Bid, each Proponent irrevocably waives any and all claims it may have against the Owner's Representative arising from or in any way connected to this RFT or any contract arising from this RFT and undertakes to make no claim or take any proceeding against any person, partnership or any other entity who or which might claim. any relief against the Owner's Representative as a result of this RFT, any matter connected with this RFT or any contract arising from this RFT.

2. TENDER BID VALIDITY

2.1.COMPLIANCE

- a) A Bid which fails to comply with the requirements of this RFT may be declared unresponsive by the Owner and disqualified.

2.2.ADDENDA

- a) The RFT may be amended by written addenda, which will be sent to all takers. Any addenda issued with respect to this RFT must be acknowledged by the Proponent in the Bidder's Response Form.

2.3.PROPONENT'S DUE DILIGENCE

- a) Each Proponent is responsible for examining with appropriate care the entire RFT and all addenda, and for informing itself about all conditions and matters that might in any way affect the cost or performance of the Work. Failure to do so will be at the Proponent's sole risk.
- b) No allowance will be made for additional costs and no claims will be entertained with respect to conditions which could reasonably have been ascertained by such due diligence prior to submitting a Bid.

3. MANDATORY REQUIREMENTS

3.1.BIDDER'S RESPONSE FORM

- a) All Bids must be submitted using the Bidder's Response Form, attached as Appendix A including the Schedule of Estimated Quantities and Unit Bid Prices. Proponents may supplement the Bidder's Response Form with additional material. Bids shall remain open for acceptance for a period of sixty (60) days following the Tender Closing Date unless withdrawn or amended in accordance with Section 4(d) of this RFT. Other than inserting the information requested on the Bidder's Response Form, a Proponent may not make changes to the Form. A submission containing any such changes may be disqualified.
- b) The Bidder's Response Form must be completed in full, including all requested information, and signed by an authorized person.

3.2. KEY SUBCONTRACTORS

- a) Provide the full list of any subcontractors that will be used for undertaking the Work in the Bidder's Response Form. It is expected that should the Proponent be awarded the project, the key subcontractors identified in the response to this RFT remain the same.

3.3. PRELIMINARY DESIGN AND CONSTRUCTION SCHEDULE WITH KEY MILESTONES

- a) Attach a bar chart schedule, or similar visual representation, highlighting key milestones, based on your proposed timeline for completion of the work.

3.4. AGREEMENT TO BOND

- a) Agreement to Bond indicating 50% Performance Bond and 50% Labour and Material Payment Bond.

3.5. INSURANCES:

- a) Provide proof of insurance as follows:
 - a) General liability insurance of \$5 million per occurrence is to include
 - b) \$2,000,000 for non-owned company vehicles.
 - c) Professional liability insurance with a limit of no less than \$2,000,000 per claim, subject to an annual aggregate of \$2,000,000.
 - d) Automobile insurance per statutory requirements in Ontario for company owned vehicles with a third-party liability limit of not less than \$2,000,000 per occurrence.

3.6. WORKPLACE SAFETY & INSURANCE BOARD CLEARANCE CERTIFICATE

- a) Proponent to provide current WSIB Clearance Certificate.

4. AUTHORIZED CONTACT

The only authorized contact in relation to this Tender is the Procurement representative named on the Tender. The Town will not be bound by statements or representations made by any other person, whether employed by the Town or not. Questions in relation to the Tender may be forwarded, in writing by email, to the named representative on the Tender.

Tender Contact:

Carolyn Longaphie
Trace Planning and Design
Email: carolyn@tracestudio.ca

Communication with the Owner to this RFT with any person other than the Authorized Contact Person, may result in the disqualification of a Bid.

5. SUBMISSION INSTRUCTIONS

The Tender period will close on **FRIDAY, JULY 3, 2026 at 2:00 pm**, local time. Tenders will be accepted either in hard copy or via email. Tenders must be received in their entirety at or before the identified Closing Date and Time. Responsibility for the delivery of a Tender, in the proper location, within the proper time, is that of the person submitting the Tender.

6. TENDERS TO BE SUBMITTED IN PRESCRIBED FORMAT

Bidders should submit their hard copy bid in a sealed package, containing one hard copy of their bid and one (1) electronic copy saved as a Portable Document format (PDF) on a USB flash drive, unless otherwise indicated. The file name on the electronic copy should include an abbreviated form of the bidder's name and Tender #. If there is a conflict or inconsistency between the hard copy and the electronic copy of the bid, the hard copy of the bid shall prevail. Bids should be prominently marked with the Tender title and number (see Tender cover), with the full legal name and return address of the bidder.

Sealed tenders will be received by:

Steve Belanger, Director of Recreation Services
The Corporation of the Town of Iroquois Falls
729 Synagogue Street, P. O. Box 460
Iroquois Falls, ON, P0K 1E0

OR

Bidders should submit their electronic bid by email with files saved as a Portable Document format (PDF) and attached to the email, unless otherwise indicated. The file name on the electronic copy should include an abbreviated form of the bidder's name and Tender #. Email subject lines must include the Tender title and number (see Tender cover). Include with the full legal name and return address of the bidder in the body of the email message.

Submit electronic bid by email to: **submissions@iroquoisfalls.com**

All Bids must be completely uploaded prior to the Closing Time of **2:00 p.m. on Friday, July 3, 2026**. Bids which have not been submitted prior to the Closing Time will not be considered. The Owner strongly recommend that Proponents allow sufficient time and at least ONE (1) day before the Closing Time to begin the process and to finalize your submission.

6.1. IMPORTANT NOTES

- a) Each item of Requested Information will only be visible after the Closing Time.

- b) Uploading large documents may take significant time, depending on the size of the file(s) and your Internet connection speed.
- c) You will receive an email confirmation receipt once you finalize your submission.
- d) Minimum system requirements: Microsoft Edge, Google Chrome, or Mozilla Firefox. Javascript must be enabled. Browser cookies must be enabled.
- e) The time at which a Proposal is considered submitted shall be the time the upload is completed and shall be conclusively established by a confirming receipt issued by the Owner.

7. PRICING

The Bidder's price calculations must be completed exactly as requested on the attached Schedule of Quantities and Unit Prices. All prices must be quoted in Canadian dollars. Pricing is all inclusive, no extra fees will be charged. All goods must be F.O.B. destination.

No additional payments beyond the scope of this Tender will be considered unless authorized in writing by the Town.

8. AMENDMENT OR WITHDRAWAL OF BIDS PRIOR TO SUBMISSION DEADLINE

At any time prior to the Closing Time, a Proponent may amend or withdraw a submitted Bid. Any amendment should clearly indicate what part of the Bid the amendment is intending to replace. A Proponent may not withdraw a submitted Bid after the Closing Time.

9. QUESTIONS

If the Proponent finds any errors or omissions in this RFT, or if the Proponent has any doubt regarding the meaning of any requirement or data in this RFT, the Proponent shall promptly seek clarification from the Owner by submitting a written request for clarification. All requests for clarification must identify the relevant RFT section and page number and must be submitted to the Owner's Representative in accordance with the instructions set out in this RFT.

Queries and requests for clarification must be submitted by Proponents in writing via email to carolyn@tracestudio.ca, by 2:00 p.m. EST on Thursday, June 25, 2026.

If the Owner considers that correction, explanation or interpretation is necessary the reply may be in the form of an addendum, a copy of which will be issued to registered bidders no later than Monday, June 29, 2026. Upon issuance by the Owner, each addendum shall be considered part of this RFT. No oral representation shall be requested by or made to any

Proponent with respect to this RFT. The Owner reserves the right to amend any part of the RFT at any time.

10. VALIDITY PERIOD

Bids shall be irrevocable for a period of sixty (60) days from the Submission Deadline.

11. SCHEDULE FOR THE BID PROCESS

Proponents are advised of the following timetable, instructions and requirements in relation to the submission of proposals.

Issue Date	June 12, 2026
Deadline for Questions	June 25, 2026
Deadline for Issuing Addendums	June 29, 2026
Submission Deadline	July 3, 2026
Estimated Date of Award	July 8, 2026
Estimated Construction Start Date	August 15, 2026
Estimated completion of work	October 30, 2026

The Schedule for the bid process is tentative only and may be changed by the Town in its sole discretion in discussion with the successful contractor.

12. BID OPENING

Bids will remain sealed until after the designated tender closing date and time. Following the closing, each bid will be opened and may be examined for preliminary assessment of the compliance of the tender. Such an assessment is only preliminary and the final decision shall be subsequently made by the Town following the evaluation of bids.

13. EVALUATION OF BIDS

1. INFORMAL OR UNBALANCED TENDERS

Tenders which, in the opinion of the Town, are informal or unbalanced may be rejected at the Town's discretion. The Town reserves the right to waive formality and technicality.

2. RIGHT TO ACCEPT OR REJECT ANY TENDER

- a) The Town reserves the right to: reject all tenders or any tender; not necessarily accept the lowest tender price; waive any irregularities, formalities, informalities or technicalities; and to accept or reject any offer whatsoever as considered by the Town to be in its best interest.
- b) The Town reserves right to evaluate all aspects of a tender. The Town reserves the right to assess the contractor's and his subcontractors' capabilities to complete the work; to deliver a high quality built project; to complete the project on time and within the budget; and to assess these and other relevant factors along with price in selecting the contractor and defining the overall cost of the project.
- c) The Town reserves the right to accept or reject all or any tenders based on the Town's sole assessment of the adequacy of the bidders proposed work plan.
- d) Award of the tender will be subject to gaining all regulatory approvals and permits.

3. VERIFY, CLARIFY AND SUPPLEMENT

When evaluating bids, the Town may request further information from the proponent or third parties in order to verify, clarify or supplement the information provided in the proponent's bid without becoming obligated to clarify or seek further information from any or all other proponents. The Town may revisit and re-evaluate the proponent's bid on the basis of any such information. Proponents are cautioned that any clarifications sought will not be an opportunity either to correct errors or change their bids in any substantive manner.

14. AWARD

- (a) Prior to the issuance of a Purchase Order, the bidder selected from this process may be required to finalize a contract for the products or services specified in this Tender. The Town reserves the right to negotiate the final terms of any contract with the bidder selected for the supply/service specified in Tender.
- (b) The bidder selected pursuant to this Tender process will be informed in writing.
- (c) Should the successful bidder decline to act on the Purchase Order or contract issued by the Town, the Town may in addition to its other remedies award the purchase order or contract to the next compliant bidder with the lowest bid.

- (d) THIS TENDER MAY BE AWARDED IN WHOLE OR IN PART TO ONE OR MORE PROPONENTS. The Town reserves the right to award in its best interest. The lowest or any bid will not necessarily be accepted.
- (e) Bidding contractors to note that the Town will award this project based on available funds. The Town reserves the right to slightly INCREASE or DECREASE quantities to comply with budgetary allocations, or other considerations, with no change to Unit Bid Prices quoted herein. The Town also reserves the right to DELETE LINE ITEMS from the award of this Tender.

END OF SECTION

PART B - TERMS AND CONDITIONS

1. GENERAL

- a) This tender is not intended to favour any particular equipment, manufacturer or contractor. The phrase "or approved equivalent" shall apply wherever a particular specification, equipment, manufacturer or contractor is mentioned.
- b) Unless otherwise specified, all work under this contract will conform to The Corporation of the Town of Iroquois Falls' Construction Specifications and Supplementary Specifications (latest edition).
- c) Refer to Appendix B for additional general requirements.

2. SAFETY CERTIFICATION

- a) Construction site safety is the responsibility of the Contractor. The Contractor shall name and appoint a site safety supervisor to coordinate and ensure appropriate construction and WHMIS safety procedures are observed and followed on the construction site. All work will be conducted in strict compliance with the Ontario OH&S Act and Regulations.

3. PERMITS AND LICENSES

- a) Include obtaining utility permits (phone, power, etc.) and their fees, license, inspections, certificates, co-ordination, scheduling and costs in the tender price and the scope of work. Where a utility or agency requires that an application be made by the Town, advise the Town's Representative sufficiently far in advance so as not to delay the work and thereafter act as the Town's agent in scheduling and co-ordinating the utility/agency with those of the work. Co-ordinate and pay for adjustment of utility poles and their supports, if required for the purposes of the work, with/to the utility having jurisdiction. Carry ongoing utility costs until Substantial Performance.
- b) The Contractor shall schedule his work in accordance with permits issued and any stipulations contained therein. The Contractor shall notify the Town/Town's Representative of any restrictions placed on the work schedule by such permits. The Contractor shall notify the Town/Town's Representative of any difficulty in obtaining permits and their impact on the schedule. Notification to the Town/Town's Representative does not relieve the Contractor of his obligations.

4. ENVIRONMENTAL REQUIREMENTS

The Contractor shall carry out the work in compliance with the various federal and provincial acts and regulations concerned with protection of the environment, and any approvals or permits issued to the Town or the Contractor in accordance therewith.

5. LAWS, ACTS, REGULATIONS, BYLAWS AND CODES

The Contractor shall comply with all pertinent Municipal, Provincial, and Federal Laws, and Regulations including the Workers' Compensation Act, The Employment Standards Act, the Occupational Health and Safety Act, the Clean Environment Act and the Clean Water Act, The Pesticide Control Act, the Federal Environment Assessment and Review guideline order, the Federal Fisheries Act and Canadian Environmental Protection Act.

END OF SECTION

PART C - SPECIFICATIONS AND GENERAL REQUIREMENTS

1. SCOPE OF WORK

The Corporation of the Town of Iroquois Falls (the Town/Owner) requires the services of a professional, qualified, and experienced contractor and play equipment supplier/installer to furnish all required labours, materials, equipment, tools and incidentals to provide construction services for the revitalization of Devonshire Park, an existing municipal park located on the corner of Cambridge Avenue and Windigo Street.

This project will require the installation of new play equipment and site furnishings, water/splash play area, pathway and safety surfaces, planting and signage. This project includes, but is not limited to:

- a) Installation of perimeter construction fencing;
- b) Confirmation of location for all in-ground services and infrastructures;
- c) Overall site layout and setting of grade markers;
- d) Layout of all site components;
- e) Excavation and site preparation;
- f) Storage and/disposal of excavated material;
- g) Supply and installation of new play equipment and safety surfacing, as specified;
- h) Supply and installation of site drainage and in-ground drainage infrastructure;
- i) Supply and installation of lighting fixtures, poles, bases, and electrical connections;
- j) Supply and installation of new water/splash play equipment and concrete surface and associated water, mechanical, and drainage infrastructure;
- k) Confirm location and placement installation of all electrical and splashpad components with the Town of Iroquois Falls and Ontario Hydro (relative to existing power line corridor right-of-way);
- l) Supply and installation of new cast-in-place reinforced concrete pads, curbs and surfacing;
- m) Supply and installation of new surface-mounted or direct buried site furniture, including trash receptacles, benches and bicycle racks, as specified;
- n) Fill, grading and shaping sub-grade;
- o) Construction of new pathways;
- p) Installation of new topsoil, sod, planting beds and mulch;

- q) Supply and installation of new trees;
- r) Other work as outlined in the drawings and specifications;
- s) Site clean-up and removal of all construction materials;
- t) Restoration, repair and remediation of any surfaces (turf, gravel, asphalt, concrete) or areas/elements outside limit of work that are damaged during the course of the work;
- u) Testing and related costs for retesting of unacceptable work including sub-grade and base preparation, concrete foundation failure, etc.; and,
- v) Supply of maintenance manuals and other post-construction documentation.

2. WORK BY THE TOWN'S REPRESENTATIVE

1. General coordination of access to the construction site.
2. Provide CAD files for contractor use for X,Y,Z locates.
3. Compaction and material testing, and required sub-base geotechnical work required as a result of material testing results.
4. Base material and rough grading check.
5. Finished surface grading check.
6. Approval of all supplied/installed materials and equipment.

3. TENDER SPECIFICATIONS AND DRAWINGS

The following Landscape Architectural Drawings and Specification details provided herein, which have been prepared by Trace Planning and Design, are to be considered part of this Tender document:

Drawing L1 - Excavation and Demolition Plan

Drawing L2 - Site Layout and Grading Plan

Drawing L3 - Landscape Materials Plan

Drawing L4 - Playground Events

Drawing L5 - Landscape Details

Drawing M01 - Plumbing Layout

Drawing E01 - Electrical Site Plan and Details

Drawing E02 - Enlarged Plan, Single Line Diagram, Details and Schedules

Drawing E03 - Water Feature Pad Bonding, Specifications and Details

4. MANDATORY TECHNICAL REQUIREMENTS

- a) All responses must meet or exceed the technical specifications outlined in the Request For Tender documents, drawings and attachments.
- b) All Specifications detailed in this Tender shall be considered as the “minimum” acceptable Specifications, unless specified otherwise. The apparent silence of the Specifications and any supplemental Specifications as to any detail, or the omission from the Specifications of a detailed description concerning any point shall be regarded as meaning that only the best commercial practices are to prevail and that only materials of the highest quality and correct type, size and design are to be used. All interpretations of these Specifications shall be made on the basis of this statement.
- c) All products offered by the Tenderer shall be the latest improved model in current production, as offered to commercial trade, and shall be of quality workmanship and material.
- d) By submitting a Tender, Bidders represent that all products to be supplied under the scope of this Contract are new. Used, shopworn, demonstrator, prototype, or discontinued models are NOT acceptable.
- e) Unless otherwise specified, all work under this contract will conform to the Town of Iroquois Falls’ Standard Municipal Specifications (latest edition).

5. GENERAL CONDITIONS

1. ACCURACY OF SPECIFICATIONS AND DRAWINGS

Bidders are strongly encouraged to notify the Tender contact person (in writing) of any ambiguity, inconsistency, or error which they may discover upon examination of the specification and / or drawings contained herein. Interpretations, corrections or changes made to the specification documents and / or drawings shall be made by issue of a written addendum.

2. PUBLIC CONVENIENCE AND SAFETY REQUIREMENTS

- a) The Contractor must conduct operations as to offer the least possible obstruction and inconvenience to the public and staff, and shall have under construction no greater length or amount of work than can be performed with due regard to the rights of the public.

- b) The Contractor must provide and maintain fences, barriers, directional signs, lights, and flag persons as are necessary to give adequate warning to the public at all times of any dangerous conditions to be encountered as a result of the work and to give directions to the public. Any street closure permits required are the responsibility of the Contractor. Refer to Appendix B Traffic Control and Road Closures.
- c) The Contractor shall be responsible for supplying and erecting specified security fencing as required to protect the public from the work. It is the sole responsibility of the Contractor to ensure the ongoing integrity of security fencing and other arrangements as may be required to secure the work site.
- d) The Town's Representative, Consultant, Town's Occupational Health and Safety Coordinator, or authorized Town staff may order that the Contractor stop work whenever any safety violation is observed and / or evidenced. The Contractor shall comply with the stop work order and shall not resume work until the safety violation is corrected to the satisfaction of the Town's Representative or their designate. The Contractor shall not be entitled to any compensation for time during the period of the stop work order.
- e) Identification and location of all underground utilities are the responsibility of the Contractor, inclusive but not limited to telephone, hydro, and natural gas service lines.
- f) The Contractor shall proceed with sufficient caution to preclude damaging any utilities known or unknown. In the event unidentified utilities are encountered, the Contractor must notify the Town immediately.
- g) In the event utilities are damaged during work, temporary services and / or repairs must be made immediately, at the Contractor's expense, to maintain continuity of services.
- h) Reflective safety vests and steel-toe safety boots must be worn on site at all times during the period of construction. Hard hats must be worn within twenty metres (20m) of the road right-of- way or within close proximity to heavy equipment in operation, or adjacent to or within the structure being constructed.
- i) The Contractor shall confine the work and operations of employees to the immediate vicinity of the site required to complete the project.

6. WORK SITE CONDITIONS

- a) The Contractor shall coordinate operations, keep site clean, and immediately remove soil or debris spilled onto sidewalks, pavement, grassed areas or walkways. The Contractor shall be fully responsible for any required restoration or damages resulting from operations.
- b) Should any damage occur to any utilities, structures, trees, shrubs, lawns, fences, etc. as a result of the work being performed by the Contractor, it shall be repaired to a condition satisfactory to the parties involved at the Contractor's expense. The Contractor shall be notified of property damage via telephone / in writing by Town staff, and is expected to have repairs / restoration completed within a two (2) week period from date of notification.
- c) The Contractor shall make good all disturbed areas unless otherwise approved by the Town.
- d) Refuse materials shall become the property of the Contractor, and shall be removed from the site on a regular basis.
- e) The Contractor will be required to install, inspect and ensure proper operation of Sediment Control Devices such as silt fencing, etc. on the work site at all times.
- f) The Contractor shall maintain access to work sites at all times, remove debris regularly, and leave the site in a clean condition upon completion of the project.
- g) The Contractor shall be responsible for safe and proper pedestrian control in and around work sites during construction.
- h) The Contractor is solely responsible for the security of his equipment and materials for the execution of this project.
- i) The schedule of work shall be coordinated with the Town. Work shall commence immediately upon receipt of a Purchase Order, or formal execution of a Contract.

7. CHANGE ORDERS

Some conditions may require additional or varied work relative to that described in these Specifications; therefore, change orders may be required to accommodate these conditions. The Contractor will be supplied with a change order form that must be reviewed and approved by the Town prior to inclusion in Contractor billing.

8. GENERAL PROJECT REQUIREMENTS AND INSTRUCTIONS

This outline describes the general intent of the work required for the project. Additional information is indicated on project drawings. The Contractor shall furnish all labour, material, certification required for a complete, compliant project, and be responsible for all methods and coordination between forces erecting and installing this work.

The project will meet or exceed the requirements of all applicable codes, standards and reference documents of federal, provincial or local authority. In any case of conflict or discrepancy, the more stringent requirements shall apply. Applicable codes and standards include, but are not limited to:

- National Building Code (latest edition), Ontario Occupational Health and Safety Act, and other Regulations, or the latest in force at the time of permit application.
- All work carried out as part of this contract will conform with the Ontario Occupational Health and Safety Act and the Canadian Hazardous Products Act (H-3).
- Comply with the requirements of the Workplace Hazardous materials Information System (WHIMIS) regarding the use, handling, storage and disposal of hazardous materials, and regarding the labelling and provision of MSDS data sheets.
- CNLA, CHTC, IPEMA, CSA, ANSI, ASTM and CGSB standards applicable to specific products, methods or areas of work.
- Other Municipal, Provincial or Federal codes, regulations, or statutes as applicable.

9. SCHEDULE

- a) The Contractor shall provide scheduling and progress documentation as per Appendix B Construction and Progress Documentation.
- b) The Contractor shall provide the Town with a detailed project schedule upon award of the project, and advise of updates to the schedule if and when required.
- c) The Contractor shall advise the Town's Representative of the commencement of the work at the site two (2) weeks in advance.
- d) Contractor shall liaise with the Town's Representative with regard to all scheduling of the work, priority areas, access to the site, deliveries, removals, etc.

- e) The Contractor shall notify the Town's Representative in advance of finalizing pathway layouts and all constructed components. The Town and Consultant will attend the site to review layout with the Contractor. Make all adjustments to the layout requested and required prior to commencement of excavation work.
- f) The Town desires that the work be completed in the shortest and most continuous time frame possible in order to minimize disruptions to neighbourhood properties and access to the area by the public, while meeting all project requirements including environmental and warranty stipulations.

10. PROJECT REQUIREMENTS

1. **Setup:** At the outset of the project, the Contractor shall discuss the most advantageous way of staging the work and for stockpiling of material with the Town. The required areas will be demarcated in agreement with the Town, and protected and maintained by the Contractor for the duration of the project. The Contractor must abide by these arrangements for the duration of the project, except and discussed with and specifically agreed to by the Town's Representative. The purpose of this measure is to ensure the safety of the public, to maintain neighbourhood activities to the greatest extent possible, and to control construction damage to surrounding areas.
2. **Protection:** The entire perimeter of the current active construction site work area shall be delineated and protected by 1830mm (6') galvanized steel Moduloc or framed panelized interconnecting chain link security fencing (or other equivalent as approved by the Town's Representative). Fence shall be inspected regularly and repaired and adjusted as required for the protection of the public. Fencing shall be removed at the conclusion of the project. Limits of fencing may be adjusted or reduced upon approval by the Town's Representative if significant areas of the project are deemed complete and ready for use. The Contractor shall exercise diligence at maintaining and enforcing security and safety barriers at all times.
3. **Permits:** The Contractor shall review the scope of the work and consider their methods required to complete the work, and determine all of the applicable permits that are required. The Contractor shall responsible for applying for, paying for and obtaining all necessary permits related to this project including, but not limited to:
 - a) Temporary street/sidewalk closure permits, if required to facilitate project work.

- b) Building permits for all new work.
 - c) Any and all permits related to Site Specific Health and Safety Plans.
 - d) Any other permit of municipal, provincial or federal jurisdiction, unless specifically excluded by these specifications.
4. **Locates:** The Contractor shall be responsible for locating all buried electrical, water, sewer, storm drainage, irrigation, gas and communications services prior to start of removal or excavation.
5. **Layout of the Site:**
- a) The Contractor shall assume full responsibility for and execute complete layout of the work to locations, lines and elevations indicated. Provide devices needed to lay out and construct the work. Supply such devices as level, measuring tapes, straight edges and templates required to facilitate the Town's observation and review of the work. Supply stakes, markers and other survey markers required for laying out the work. Supply scaffolding, tools, templates, hoists, cranes, derricks, plant and all other equipment necessary to carry out his work. Sub-trades shall be bound by the same conditions as the Contractor.
 - b) The Contractor is solely responsible to supply site dimensions for construction use, the preparation of shop drawings, or verifications.
 - c) Layout out the main geometrical elements of the site (play zone perimeter, pathway location, etc.) shall be subject to review and approval by the Town's Representative PRIOR TO preparation and installation of any new elements/components. Do not proceed until these main elements have been reviewed and approved.
 - d) The Contractor will be responsible to meet the intent of the grading plan provided, and review rough grading and finished foundation levels with the Town before completing those sections of the work.
6. **Traffic and Dust:** The Contractor is responsible to control dust generated from excavation, grading, landscaping, construction, deliveries and removals such that dust will not negatively affect adjacent properties or public right of way, to the satisfaction of the Town.
7. **Sub-Trades:** All sub-trades shall be required to keep a qualified foreman on site for their respective trade during the entire length of their section of work for the project.

8. **Sub-Grade Conditions:** Upon initial layout and removal/excavation, the Contractor, with the Town's Representative, shall conduct an initial assessment of the existing sub-grade conditions to determine any foreseeable significant difficulties in achieving the grading indicated. Subject locations shall be reviewed and discussed with the Town's Representative to determine the best method of preparing sub-grade to suitable condition for the placement of base and finish material. Remedial work shall not proceed without agreement with the Town.
9. **Testing:** The Contractor will pay for and schedule all materials testing during the course of construction, if required. The Contractor shall coordinate with the Town's Representative (or Site Inspector) in advance of work so that proper scheduling can take place. Unsatisfactory work shall be replaced at the Contractor's cost.
10. **Town's Testing:** The cost of any independent testing agencies engaged by the Town upon their own discretion, if any, will be paid for by the Town, except where tests/inspections reveal unsatisfactory work, in which case the Contractor shall pay for such tests/inspections, in addition to remediation/upgrading of the work in question.
11. **Security:** The Contractor shall be solely responsible for security of the construction site and related material and equipment for the execution of the work. Provide protection for finished and partially finished work. Be responsible for damage incurred due to lack of or improper protection.
12. **Cooperation:** The Contractor shall cooperate with the Town's Representative as may be required.
13. **Work by Others Including Utilities:** The Contractor must coordinate their work with the operational requirements of the Town, and allow for work by service utilities.
14. **Health:** The Contractor must provide workplace health facilities as required by Ontario OH&S Act and Regulations. Public washrooms and access to drinking water will not be provided by the Town.
15. **Electricity:** The Contractor shall make their own arrangements for the supply of electrical power for tools, lighting, etc. at their own expense using either temporary power generation or by making arrangements with the local utility company.

16. **Unexpected Conditions:** Notify the Town's Representative should unexpected conditions or features become apparent during the course of the work.
17. **Location of Existing Utilities:** Carry out all locates for sewer, water, power, telecommunications, natural gas services prior to excavation or work on the site. Cost of locates shall be the responsibility of the Contractor. The Contractor shall proceed with sufficient caution to preclude damaging any utilities known or unknown. In the event unidentified utilities are encountered, the Contractor must notify the Town immediately. In the event utilities are damaged during construction, temporary services and / or repairs must be made immediately, at the Contractor's expense, to the satisfaction of the governing utility, to maintain continuity of services. Refer to Appendix B Road and Miscellaneous Items.
18. **Convenience:** The Contractor must conduct operations as to offer the least possible obstruction and inconvenience to the public and neighbours, and shall have under construction no greater length or amount of work than can be performed with due regard to the rights of the public.
19. **Site Control:** The Contractor must provide and maintain fences, barriers, directional signs, lights, and flag persons as are necessary to give adequate warning to the public at all times of any dangerous conditions to be encountered as a result of the work and to give directions to the public. Any public right of way closure permits required are the responsibility of the Contractor.
20. **Communication:** Arrange for communication with the Site Foreperson by telephone (cell or land line) as necessary for own use and use of Town.
21. **Limit of the Work:** Confine the Work and the operations of employees to limits indicated by the immediate vicinity of the site required to accomplish the work and as mutually agreed with the Town. Do not unreasonably encumber adjacent areas/lands with products or equipment. Do not load or permit to be loaded any part of the Work with a weight or force that will endanger the Work.
22. **Parking:** Parking for personal vehicles will be limited to that commercially or commonly available public parking in the area. Construction parking will be permitted on Cambridge Avenue and Windingo Drive within Town designation spaces immediately adjacent to the park boundary. No contractor/construction parking is permitted on the opposite side of the Cambridge Avenue and Windingo Drive streets corridors, or at any location on Devonshire Avenue without permission from the Town of Iroquois Falls.

23. **Storage:** Provide and maintain, in a clean and orderly condition, lockable weatherproof sheds for storage of tools, equipment and materials. Secure major equipment remaining unattended at the site to prevent unauthorized use.
24. **Protection of Infrastructure:** The Contractor shall take necessary precautions to protect all existing roads, sidewalks, curbs, poles, signs, hydrants, grates, manholes, and other infrastructure. The Contractor shall be held responsible for damage resulting from their operations and subsequent repair or replacement. The Contractor shall provide all public protection necessary of advisable or as required by local By-law, including such items as guard rails, barriers, night lights, sidewalk or curb protectors, hoarding, and warning lights as required by applicable regulations.
25. **Work Safety:**
- a) Observe construction safety measures of National Building Code 1995 Part 8, Provincial Government, Workers' Compensation Board and municipal authority provided that in any case of conflict or discrepancy more stringent requirements shall apply.
 - b) Ensure no part of Work is subjected to loading that will endanger its safety or will cause permanent deformation.
 - c) While brazing, soldering, grinding, cutting or welding, protect against heat, sparks and fire by shielding. Maintain a fire extinguisher (ABC Multipurpose Class, minimum 10 lb. capacity) in working order, at each workstation, within close reach of all personnel located at that station, including stations where materials are heated with torches or open flames.
 - d) Maintain cleanliness and order in all areas at all times. Do not allow rubbish to collect.
 - e) Personnel shall know procedure for evacuation of notification of Fire Department in the event of fire.
 - f) Store flammable or combustible gases used on construction site in ULC containers.
 - g) Comply with the requirements for building construction established by the Provincial Fire Commissioner - Department of Public Safety. Provide

all temporary, permanent shoring, protective devices, hoarding, etc. to complete the work as indicated and required.

- h) Design and construct false work in accordance with CSA S269.1-1975(R2003).
- i) Design and construct scaffolding in accordance with CSA S269.2-M87(R2003).
- j) The Contractor shall abide by all safety and environmental regulations in force by authorities having jurisdiction including, but not limited to Hydro, Ontario Ministry of the Environment, Conservation and Parks, and Water Commission.
- k) Erect hoarding where required by all local authorities having jurisdiction to protect the public, workers, public and private property from injury or damage. Construct and maintain scaffolding in rigid, secure and safe manner. Obtain certification of design and erection of scaffolding to the satisfaction of the authority having jurisdiction. Remove promptly when no longer required.

25. Restoration of Municipal Property: Upon conclusion of the project, the Contractor shall restore all planting, turf, granular and paved pathways, sidewalks, and curbs affected or disrupted by the construction activity to at least as good condition as that which existed prior to construction, to the sole satisfaction of the Town, whether or not the damaged areas are delineated as forming the scope of the work. Restored items and areas shall be protected from use until accepted, to the sole satisfaction of the Town.

26. Restoration of Private Property: Private Property within the scope of work shall be repaired / restored complete within a two (2) week period from the time of completion of that section of the work. In addition, the Contractor may be notified of property damage via telephone / in writing by Town staff, and is expected to have repairs / restoration completed within a two (2) week period from date of notification.

27. Certification and Audit: The Contractor is responsible to provide a written certification from a CPRA/CPSI Accredited Playground Inspector that all placed equipment meets the following specifications.

- a) The Contractor may use the following firm to audit their playground equipment Active Recreation / Ottawa, ON / 613-591-7772 who will audit both the playground equipment and the protective surfacing.
- b) The certified playground inspector will perform the audit to confirm compliance with the CSA -Z614:20 and all applicable accessibility and safety standards.
- c) The audit must be completed within 10 working days of installation of the safety surface.
- d) The Site Authority or his/her designate must be on site during the audit.
- e) The contractor-provided certified playground inspector must confirm their schedule and communicate any changes with the Site Authority or his/her designate. The inspector may be a representative of the supplying play equipment company.
- f) The contractor must supply a copy of the inspector's audit to the Site Authority

11. PROJECT MATERIALS AND WORKMANSHIP

1. **New Material:** Use new material and equipment unless otherwise indicated. Products, materials, equipment and articles incorporated in the Work shall be new, not damaged or defective, and of the best quality (compatible with requirements) for the purpose intended.
2. **Material Handling:** Handle and store products in a manner to prevent damage, adulteration, deterioration and soiling and in accordance with manufacturer's instructions when applicable. Deliver and store packaged or bundled Products in original and undamaged condition with manufacturer's seal and labels intact. Do not remove from packaging or bundling until required in the Work. Store products subject to damage from weather in weatherproof enclosures. All storage shall be in accordance with the manufacturer's and/or supplier's instructions.
3. **Workmanship Quality:** Workmanship shall be the best quality, executed by workers experienced and skilled in the respective duties for which they are employed. Immediately notify the Town's Representative if required Work is such as to make it impractical to produce required results. Perform remedial work required to repair or replace the parts or portions of the Work identified as defective or unacceptable. Coordinate adjacent affected Work as required.

4. **Protection:** Adequately protect Work completed or in progress. Work damaged or defaced due to failure in providing such protection is to be removed and replaced, or repaired, as directed by the Town, at no increase in Contract Price.

12. SUBMITTALS

1. **Project Documentation:** On award of the project, submit the following to the Town:
 - Environmental protection plan, if required.
 - Traffic control plan. Refer to Appendix B Traffic Control and Signage.
 - A detailed project schedule and work plan.
 - Site Specific Health and Safety plan.
 - Drawings stamped by a Professional Structural Engineer licensed to work in the province of Ontario that illustrates compliance for all materials and construction specifications related to playground and splashpad equipment installation, including all foundations required for all proposed and approved play equipment.
 - Shop drawings and specifications for all approved supplier equipment.
2. **Procedure:** Furnish the submittals requested/ indicated to Town's Representative, for review. Submit with reasonable promptness and in orderly sequence so as to not cause delay in the Work. Allow a minimum of four (4) business days for review and comment by the Town's Representative.
3. **Timing:** Work affected by the submittal shall not proceed until review is complete.
4. **Submittal Review:** Review submittals prior to submission to the Town. Technical submittals shall be stamped, signed, dated and identified specific to the project.
5. **Coordination:** Verify field measurements and affected adjacent Work are coordinated.
6. **Field Dimensions:** The Contractor is solely responsible to supply site dimensions for construction use, the preparation of shop drawings, or verifications.

7. **Content:** Indicate materials, methods of construction and attachment or anchorage, erection diagrams, connections, explanatory notes and other information necessary for completion of Work. Where articles of equipment attach or connect to other articles of equipment, indicate that such items have been coordinated.
8. **Adjustments:** Adjustments made on shop drawings by the Town's Representative are not intended to change the Contract Price. If adjustments affect the value of Work, state such in writing to the Town prior to proceeding with the Work.
9. **Alternative Products and Related Costs:**
 - a) The cost of any adjustment to the design, engineering or installation of other work which is affected by the use of approved alternative products or methods is solely the responsibility of the Contractor.
 - b) Adjustments to the design or engineering of other work which is affected by the use of approved alternative products or methods will require a complete set of CAD-based site construction drawings stamped by a registered professional engineer in the Province of Ontario for all pathways, concrete, play surfaces, surface and sub-surface drainage surfaces and at-grade and in-ground infrastructure.
10. **Format:** Submit shop drawings (digital submissions are acceptable) to the Town/Town's Representative for review. The Town's Representative will mark up drawings for return to the Contractor. Contractor to make copies as they require, from the returned shop drawings.
11. **Structural:** Where, and if required, structural shop drawings shall bear the seal and signature of a Professional Engineer licensed to practice in the Province of Ontario. The Town's Representative will access this requirement and inform the contractor of this requirement.
12. **Review:** The Town's Representative will review and advise of any revisions required.
13. **Submission:** Submit duplicate samples as required, requested for review. Label samples as to origin and intended use in the Work.
14. **Location:** Shop drawings and samples shall be delivered to the Town's appointed Town's Representative.

15. **MSDS:** Submit Material Safety Data Sheets (MSDS) for controlled products specified by the regulations made under the Hazardous Materials Act.

16. **Testing:** submit test results that are required and/or requested to the Town for review in a timely fashion, prior to proceeding with subsequent work.

17. Shop Drawings:

- a) Cast-in-place concrete bases, pads and footings for furnishings, play and splashpad equipment.
- b) Site furniture.
- c) Play equipment.
- d) Water/Splash equipment
- e) Concrete mix specifications.
- f) Other items as requested and/or required.

18. Samples:

- a) Bark mulch.
- b) Topsoil.
- c) Finish coatings.
- d) Geotextiles (if required).
- e) Granular material.
- f) Landscape drainage components
- g) Other items as requested and/or required.

19. **Certification:** CPRA/CPSI inspection certificate for play equipment installation.

20. **Manuals and Maintenance Material:** submit all maintenance manuals, operating manuals, spare parts and fasteners, touch-up coatings, special tools and similar items to the Town at the conclusion of the project.

21. Change Control:

- a) **Change Documentation:** Should conditions require additional or varied work relative to that described in the Contract documents, or should the Town desire to amend the scope of work by adding or deducting from it, approval for such will be made using a formal Change Order,

based on pricing and schedule adjustments agreed to by the Town and the Contractor in writing.

- b) **Notification:** The Contractor shall notify the Town in writing of items for consideration, which must be reviewed and approved by the Town, prior to proceeding with the altered scope of work.
- c) **Billing:** A signed Change Order must be approved and completed by the Town and the Contractor prior to inclusion in Contractor billing.

22. **Progress Review:** In addition to weekly project management discussions, construction progress will be monitored and recorded by the Town's Representative. A regular (monthly) report shall be submitted by the Contractor describing the work completed to date, in the current time period. The report will be reviewed by the Town and upon approval will form the basis for the Contractor's monthly billing. The monthly report must be submitted, reviewed and approved prior to submission of invoicing. All invoices must be reviewed and approved by the Town prior to processing for payment.

23. **Cleaning:**

- a) **Removal:** Remove waste products and debris other than that caused by the Town, other Contractors or their employees, and leave the Work clean and suitable for occupancy by Town. The Contractor shall be responsible to remove construction dirt and debris daily from areas outside the area of the work to the satisfaction of the Town. Refuse materials within the limit of the work shall become the property of the Contractor, and shall be removed from the site no less than weekly.
- b) **Tidiness:** Maintain the Work in tidy condition, free from accumulation of waste products and debris, other than that caused by the Town or other Contractors.
- c) **Disposal:** Make arrangements with and obtain permits from authorities having jurisdiction for disposal of waste and debris. Remove waste material and debris from the site at the end of each working day.
- d) **Equipment and Materials:** Remove surplus products, tools, construction machinery and equipment. Remove waste products and debris other than that caused by the Town or other Contractors.
- e) **Inspection:** Clean finished installed products prior to inspection

24. Project Management and Closeout:

- a) **Restoration:** At the conclusion of the work, or at the conclusion of each major portion of the work, the Contractor shall restore all site features disturbed or disrupted by the construction to a condition at least equal to that prior to construction. Coordinate timing and phasing of restoration work with the Town.
- b) **Job Site:** Maintain at the place of the Work record prints of the project in good order. Clearly mark as the job progresses, with all changes, addenda items, clarifications, job instructions, change orders, bulletins, field tests, work schedule, manufacturer's installation instructions, inspection reports, and all other deviations as they occur. Mark all drawings to compile a complete record of the as-built installation at completion. The submission of an acceptable set of record drawings to the Town is a condition of issuance of Substantial Performance. All record information will be collected by the Contractor and checked by the Resident Inspector on behalf of the Town.
- c) **Landscape Maintenance.** Final site work includes the supply and placement of approved sod. Upon placement, the Town of Iroquois Falls will begin a watering and turf care program.
- d) **Record Prints:** The Contractor shall, as part of the Work, submit to the Town upon achievement of Substantial Performance of the Work, one (1) set of drawings to scale representing 'as-built' conditions including formal change orders and field adjustments made to the tendered plans. An Autocad file and pdf file of the same shall also be submitted.
- e) **Water Play System:** Upon Contractor's completion of work and approval of work by the Town; an as built drawing to scale of the system will be submitted indicating the splash pad fixtures and location, pipe size and location, automatic valves model and location, winterizing adaptor location (if applicable), wire or control tube location, controller location, main shut off valve, any isolation valve locations, quick coupler valves and dimensioned location of buried sleeves. An Autocad file and pdf file of the same is also required. Additionally, one hard copy and one electronic copy of the complete parts catalogue, operator, wiring diagrams and repair service manuals (as applicable) shall be provided.

- f) **Documentation:** Final completion of the contract will not be made until correct record drawing files are received. One printed set and an Autocad file (dwg format) of the same are required.

25. **Accident/Fire:** In the event of accident, theft, fire, vandalism, or any damage to the facility occurring, the Contractor shall immediately notify the Town and the Consultant.

26. **Access:** The Town of Iroquois Falls and/or the Town's Representative shall at all times have access to the work. The Contractor shall provide facilities for such access and for observation.

27. **Occupancy:** The Town of Iroquois Falls and the Town's Representative shall have the right to enter and occupy or use the Work at the stated Date of Substantial Performance of the Work. Cooperate with Town in scheduling operations to minimize conflict and to facilitate Town usage.

28. Warranty:

- a) **General Warranty:** All material and workmanship shall be under general warranty for a period of one (1) year from the date of substantial completion unless otherwise indicated.
- b) **Turf (sod and topsoil):** All turf area materials shall be covered by an initial one (1) year warranty from the date of substantial completion.
- c) **Extended Warranties:** Specific project components shall be covered by the extended warranty periods indicated.
- d) **Defective Work:** Any other defective work identified shall be repaired and/or replaced as deemed appropriate by the Town at no additional cost to the Town.
- e) **Reinstatements:** all edge and other reinstatements shall be guaranteed for a period of one year against washout and for turf growth. The Contractor shall replace all defective areas, which shall be guaranteed for an additional one (1) year from the time of acceptance.
- f) **Warranty Periods:** all warranty periods commence once substantial completion has been achieved.

13. COMPLETION

1. Maintenance Documentation:

1. **Maintenance Instructions:** Provide maintenance instructions for all products supplied and installed as part of this project in a digital format as outlined below. Data should be organized by section/trade. Include the names and contact information for all trades and suppliers. The data files shall be deposited with the Town to be used by the Town in connection with the proper operations and maintenance of the above items. Include copies of manufacturer's literature for all equipment, materials, systems used, colour and finish selections and copies of all warranties and approved shop drawings.
2. **Contents:** Provide installation and maintenance instructions for all products supplied and installed as part of this project. Data shall be organized in electronic folders by section/trade. Include the names and contact information for all trades and suppliers. The files shall be deposited with the Town to be used by the Town in connection with the proper operations and maintenance of the above items. Include electronic copies of manufacturer's literature for all equipment, materials, systems used, colour and finish selections and copies of all warranties and approved shop drawings. It is the Contractor's sole responsibility to ensure the delivery of the data to the appropriate Town's personnel.
3. **Electronic Format:** Provide all maintenance data to the Town in .pdf format on a USB portable storage device. It is the sole responsibility of the Contractor to obtain .pdf files from suppliers or subcontractors, or scan documentation required into an acceptable .pdf format, regardless of original size. Retain a copy or records of the delivery.
Deliver to:

Steve Belanger
Director of Recreation Services
The Corporation of the Town of Iroquois Falls
729 Synagogue Street, P. O. Box 460
Iroquois Falls, ON, P0K 1E0
Email: SBelanger@iroquoisfalls.com

4. **Maintenance Material, Spare Parts, Tools, Spare Material:** It is the Contractor's responsibility to deliver maintenance material, spare parts, tools, spare material as indicated to the Town. Retain a copy or records of deliveries. Deliver tools/parts/touch-up material to:

Steve Belanger
 Director of Recreation Services
 The Corporation of the Town of Iroquois Falls
 729 Synagogue Street, P. O. Box 460
 Iroquois Falls, ON, P0K 1E0
 Email: SBelanger@iroquoisfalls.com

5. **Record Prints:** The Contractor shall, as part of the Work, submit to the Town upon achievement of Substantial Performance of the Work one set of marked up record white prints representing 'as-built' conditions including formal change orders and field adjustments made to the tendered plans. Contractor shall also provide a digital file at the end of the project with coordinates of all record information collected including all underground and aboveground infrastructure. Failure to do so will result in \$5,000 held back from the contract. Acceptable submissions would include AutoCAD drawing with all elevations, invert etc., included on the drawing. An excel point file with code descriptions, i.e. GS = Grade Shot, could also be included.
6. **Documentation:** Final completion of the contract will not be made until correct record drawing files are received.

7. GENERAL SPECIFICATIONS

1. **Scope:** All work to be done by the Contractor for which specific items not named in the contract, or not specifically mentioned but obviously necessary for the proper completion of the work, shall be considered as incidental, and as being a part of and included with the work for which prices are given in the contract.
2. **Demolition and Removals:**
 - a) **Notification:** The Contractor shall notify the Town's Representative two (2) weeks prior to commencement of the work in order for the Town to remove any equipment it deems having salvage value.

- b) **Removals:** The Contractor is solely responsible for the removal of all demolition and clearing/grubbing material from the site and disposal in an approved, environmentally sound manner.
- c) **Surplus Material:** The Contractor shall remove all surplus native grading material not required for fill or construction operations from the site prior to completion of the project. No excavated material is permissible for use as topsoil. All topsoil must be approved, imported and placed in consultation with the Town's Representative.
 - a) Management of excess material shall be according to OPSS 180.
 - b) Receiver site may be negotiated with the Town in coordination with the Public Works department. Compliance is the responsibility of the contractor.

3. Site Layout and Grading:

1. Refer to Appendix B Trenching, Backfilling, and Compacting, Aggregates- Base, Subbase, Select Subgrade, and Backfill Material, and Grading.
2. **Layout:**
 - a) Unless otherwise noted, the Contractor shall furnish and set control, line and grade stakes, and any marks sufficient for the Contractor to establish any further lines and grades for the completion of the works. Notify the Town should additional layout points and/or grades become required to adequately establish alignment and grading. Claims will not be considered because of alleged inaccuracies unless the Contractor notifies the Town in writing, and in sufficient time to allow for verification or checking of said inaccuracies.
 - b) Layout out the main geometrical elements of the park site elements shall be subject to review and approval by the Town's Representative PRIOR TO preparation and installation of these elements. Do not proceed until these main elements have been reviewed and approved by the Town.
3. **Scope:** Grading shall consist of clearing and grubbing of any materials noted for removal on Drawing No. L-1, excavation and construction conforming to the lines, grades and typical cross-sections shown on the plans, or as directed. All organic matter and topsoil shall be removed prior to sub-grade preparation.

4. **Finished levels:** All adjacent surfaces shall be flush and provide positive drainage unless otherwise noted.
5. **Fill material: If required,** shall be a sound, durable, granular material free of clay, frozen lumps, organic or deleterious matter and conforming to the following gradation limits:

Sieve Size	% passing
80.0 mm	95-100
20.0 mm	15-100
5.0 mm	0-80
0.08 mm	0-10

6. **Rough Grade:** Rough grade to levels, profiles and contours allowing for placement of base material and/or surface treatment as indicated. Review rough grading preparation with the Town's Representative prior to installation of base materials, construction of new features, installation of new topsoil/sod areas, preparation of planting beds.
7. **Fill Placement:** Prior to placing fill over existing ground, scarify surface to depth of 150mm. Moisture content of fill and existing surface to be approximately the same to facilitate bonding.
8. **Compaction:** Compact filled and disturbed areas to SPD to ASTM C698-78 as follows:
 - a) 85% under landscaped areas.
 - b) 95% under walking areas, pads and concrete curbs, unless higher compaction levels are indicated or designed by the Town's Representative or the Contractor's Structural Engineer.
 - c) Take measures to protect existing underground utilities from damage due to compaction and construction activities.
 - d) Employ the services of a qualified Geotechnical Engineer to test representative location in each compaction zone. Provide testing results to the Town's Representative. Re-test remedial work required when results are unsatisfactory and supply re-test results to the Town's Representative.

9. Existing Vegetation:

- a) Unless specifically directed otherwise, do not disturb soil within one meter (1 m) of the trees drip line of trees or shrubs to remain. Plant material designated to remain undisturbed shall be encompassed by a snow fence one meter (1 m) outside of the drip line.
- b) Discuss any apparent non-compliant situations with the Town's Representative prior to proceeding and make revisions to installations complete as directed.

10. Classification of Fill: All material excavated at the site, excluding rock, shall be classed as common excavation. Common excavation material may be used as borrow material for embankments or fill areas if required.

11. Rock: should sub-grade rock conditions be encountered, suspend work and immediately notify the Town's Representative.

12. Sediment Control:

- a) The Contractor must provide for erosion and sediment control on the construction site. The Contractor shall ensure that sediment control fences or erosion control structures are properly located for effective runoff control.
- b) Protect all municipal drainage system structures including catch basins, manholes and sluice boxes from sediment ingress.

4. Cast-in-place Concrete:

1. Scope for Pads, Piers and Footings:

- a) Unless otherwise specified by the Contractor's Structural Engineer licensed to practice in the Province of Ontario, concrete work shall be performed in accordance with the specifications indicated in this section, and on the contract drawings.
- b) Work to be carried out under this contract shall include furnishing of labour, materials and services necessary for the supply and installation of concrete base pads, piers and footings for structures, and play equipment, bench pads to the full intent of the drawings, and as hereinafter specified.

2. **Mix Design:** unless otherwise specified by a Structural Engineer licensed to practice in the Province of Ontario, concrete shall be proportioned and have the uniformity of production, in accordance with the requirements of CAN/CSA-A23.1-04/A23.2-04/A23.3-04 for Class C-1 and C-2 exposures as applicable. Proposed concrete mix must be submitted for approval.

3. **Properties:** Concrete shall have the following properties:

Maximum Water/Cement Ratio by Mass	0.45
Minimum Cement Content	400 kg/m ³
Minimum Strength at 28 Days	35 mPa
Slump (See Note Below)	80mm ± 30mm
Air Content	5% - 8%
Max Aggregate	19mm

4. **Cement content:** 400 kg/m³ shall have a minimum of 360 kg/m³ of Portland cement.

5. **Slump:**

(a) Slump test each batch of concrete and provide test results to the Town's Representative.

6. **Rejection:** Failure to meet the requirements for slump and air content shall be cause for immediate rejection of supplied concrete.

7. **Placement:** Concrete shall be placed to proper line and grade to give the section required by the plans and typical sections. The time between batching and complete discharge shall not exceed 120 minutes.

8. **Substrate Condition:** Immediately prior to placing concrete the sub-base shall be thoroughly moistened. Water to be supplied by the Contractor shall be considered as incidental to the work.

9. **Placement Position:** Concrete shall be placed as close to its final position so as to minimize re-handling. It shall be placed and struck off in a manner which does not result in segregation. When required, hand spreading of concrete shall be done with shovels, not rakes.

10. **Consolidation:** Concrete shall be thoroughly consolidated against and along the face of all forms and into the face of previously placed concrete.
11. **Levelling:** After placing, the concrete shall be levelled or screeded to proper grade, then floated using an aluminium or magnesium float to eliminate unevenness. Floating is to be completed before bleed water accumulates on the surface.
12. **Edging:** Required along all edge forms and at isolation/ expansion and construction joints, and also where indicated on drawings at dissimilar material joints. Edging shall begin after evaporation of bleed water. Wood floats are not permitted. Steel troweling is not allowed.
13. **Added Water:** Adding water to the surface of the concrete to assist in the finishing operation is not permitted.
14. **Preparation:** Adequate material and labour shall be at the site prior to placement to carry out finishing and curing, including material to protect the concrete from damage by rain. These shall include waterproof paper or plastic sheeting. The plastic sheeting shall not be left to continue as the curing material.
15. **Depth:** The depth of lumber forms for bench and trash receptacle pads shall be as specified on associated contract drawings. Others as required by the design indicated.
16. **Texture:** Following floating, slabs shall be given a skid-resistant texture by lightly scoring it in the transverse direction using a broom, unless otherwise indicated. A final light broom texture shall be applied to create a slip-resistant finish for sidewalks.
17. **Protection:** As soon as practical after the texturing operation is completed, the entire surface, including exposed sides shall be protected against loss of moisture, rapid temperature change and mechanical injury, in accordance with the requirements of CAN/CSA A23.1.
18. **Moisture Retention:** The period for which moisture is applied or retained in the concrete surface shall be not less than seven (7) days immediately following the placing of the concrete.

19. **Curing Paper:** The Contractor must use moisture proof paper or curing compound. Polyethylene is not permitted as a substitute for moisture proof paper.
20. **Edges:** Edges of pads shall be covered to prevent evaporation and all joints lapped 300mm and adequately weighed to prevent displacement or billowing due to wind. Material folded down over the edges shall be secured by a continuous bank of earth. Tears or holes appearing in the curing paper during curing period shall be repaired immediately. **Curing paper shall not be reused once it has been installed.**
21. **Curing Compounds:** Approved curing compounds shall be applied to the exposed surface and edges of the concrete immediately following the final texturing operation. Complete and uniform coverage shall be at the rate specified by the manufacturer. The compound shall be kept agitated to prevent pigment from settling. It shall be applied to the edges of formed concrete immediately following the removal of the forms. Membrane forming curing compound shall not be permitted after October 1 unless approved by the Town's Representative, after which time moisture-proof paper shall be used.
22. **Defective Concrete:** If the concrete has been damaged in any way before complete set has taken place, or if any defects are discovered at any time prior to final acceptance of the work, i.e. cracking, vandalism, footprints, etc. or if samples taken from the work fail to meet specifications, the defective concrete shall be entirely removed to sub-grade and replaced by new concrete at the expense of the Contractor. Concrete not placed to the required minimum thickness or width shall be removed and replaced at the contractor's expense.
23. **Ambient Temperature:** The placing temperature of concrete shall be between 10 and 35 degrees Celsius. To avoid cracking of the concrete due to sudden temperature change near the end of the curing period, the protection shall not be completely removed until the concrete has cooled to a permissible temperature differential

24. Cold Weather Requirements: Moisture-proof paper shall be used when the forecasted nightly low temperature is at or below 5 degrees Celsius. When the outside air temperature is at or below -5 degrees Celsius, the concrete must be protected by adequate insulation or supplementary heating for a minimum of 7 days. To protect the concrete from cold weather, the Contractor shall provide fibreglass batt insulation over the surface of the concrete to produce a minimum R value of 10. The insulation shall be placed over the moisture proof paper and be covered by 6 mil polyethylene. Care shall be taken to lap all joints and secure all edges from heat loss. The Contractor shall prevent any removal of the completed system and shall replace at no extra cost all uncovered areas regardless of the cause of removal. No ice or snow shall be permitted on the placing surface. Concrete shall not be placed on, or against any surface that will lower the temperature of the concrete in place below 10 degrees Celsius. Under no circumstances shall concrete be placed over frozen ground.

25. Reinforcing Steel:

- a) Bar: to CAN/CSA-G30 18-09 Grade 400 MPa.
- b) Mesh: to CSA G30.5-M1998.
- c) Reinforcing steel, embedded parts, anchor bolts, dowels etc. shall be secured in position prior to placement of concrete.
- d) Hooks shall be standard unless noted otherwise.
- e) Minimum concrete cover for reinforcement unless otherwise noted on the contract drawings:
 - i) 20M bars or larger shall be 50mm min.
 - ii) 15m bars or smaller including mesh shall be 40mm min.
 - iii) Locate reinforcing as indicated.
- f) All splices shall be class 'C' tension lap splices. No more than 50% of the reinforcing shall be spliced at any given location.
- g) Anchor bolts shall be placed with templates and shall be held rigidly during placement of concrete.

5. Pathway:

1. Refer to Appendix B Trenching, Backfilling, and Compacting.
2. **Alignment:** The Contractor is required to build pathways to the specification, alignment indicated and as detailed. The Contractor will determine all construction locations by survey stakes that shall be located on the centerline and approved by the Town prior to work commencement. The pathway shall follow the final route located on the detail layout drawing, unless otherwise approved by the Town.
3. **Sub-Grade Stabilization:** Geo-textile may be approved by the Town for use in areas where sub-grade stability is not achievable by conventional methods. **Such locations shall be reviewed and approved by the Town prior to installation of any remedial sub-grade stabilization material.**
4. **Excavation and Sub-Grade:** Excavation or fill for walking pathway shall be to the depth and width shown on the plans or drawings. The sub-grade shall be excavated or filled to proper line, grade and cross section to provide a firm, smooth surface compacted to at least ninety-five percent (95%) of maximum density. Excavation shall be done to proper line and grade and the excavated material shall be placed in embankments or removed from the site. All excavated material not required as fill, etc. for other components of this project will become the property of the Contractor with disposal in an approved, environmentally sound manner. The Contractor shall establish a sub-base that is sufficient to build trails. Improperly sloped sub-base will be corrected through cut and fill, or laying and compacting crushed stone. The Town expects that the Contractor understands the site and project prior to bidding. The Town will not issue change orders where the Contractor did not understand site conditions.
5. **Shaping:** Prior to the placing of granular base, the sub-grade shall be properly shaped and compacted so as to be firm and able to support the crowned construction equipment without displacement. Soft or yielding sub-grade shall be corrected and made stable before sub-base construction proceeds. All ponded water shall be removed from sub-base area prior to placing any granular base material
6. **Vegetation:** Limbs or roots of mature trees damaged by construction operations shall be cut clean with a sharp saw immediately after occurrence. (No tree wound dressing is necessary).

7. **Exemption:** Approval for exemption to required slopes shall be at the sole discretion of the Town.
8. **Geotextile (where approved for remedial work):**
 - a) Place Geotextile fabric over the pathway segment where directed prior to installation of the pathway base and surface.
 - b) Geotextile: Terrafix 270R Series geotextile fabric (or Town/Town's Representative approved equivalent).
9. **Preparation:** If required following post-bid discussion, areas to be covered with geotextile shall be prepared by shaping the ground to a uniform and regular surface, free from bumps and depressions. Do not be place on any material that may tear or puncture the fabric. Where more than one width of fabric is used, joints shall be sewn or an overlap of at least 500 mm. All overlap joints shall be securely held in place. In no case shall equipment travel on uncovered fabric.
10. **Repair:** The Contractor shall immediately repair any damaged geotextile by covering with a patch of the same fabric extending a minimum of one meter beyond the perimeter of the damaged area. Overlapped joints, patches and seams shall be measured as a single layer of fabric; no payment shall be made for overlap.
11. **Base Material:** typical base material shall be crushed stone compacted to 95% SPD, thickness indicated.
12. **Placement of Base Material:** Compaction must commence immediately following the spreading of each layer. Following compaction the surface of the granular base shall be shaped to required line, grade and cross-section. The surface shall be smooth, dense and free from ridges or loose material.
13. **Surface Material:** Asphalt or concrete surface as specified.
14. **Edges and Margins:** topsoil with sod as indicated. Refer to other sections of the specifications for the requirements of these materials.
15. **Margin Slope:** construct as detailed.
16. **Drainage:** no softscape landscape areas shall drain onto pedestrian pathways.
17. **Complete Reinstatement:** the Town will issue no change orders for reinstatement of areas disturbed by the Contractor.

6. Planting Beds:

1. **Excavation and Topsoil:** Excavate and place topsoil to depth and width as indicated on contract drawings.
2. **Topsoil:** Planting bed topsoil mix, standards and installation as indicated in 'Grading, Topsoiling, Sodding' section below.
3. **Mulch:** Bark chip mulch shall be chips from bark of coniferous trees, varying in size from 25mm - 50mm in diameter.

7. Trees, Shrubs, Perennials and Ornamental Grasses:

1. **Quality:** All plant material shall meet or exceed current Canadian Nursery Landscape Association's Latest Edition of the Nursery Stock Standards.
2. **Source Quality Control:** Submit plant material source(s) to the Town prior to placement of final order. The Town must approve plant material source prior to any shipping to Contractor. If plant material is shipped and delivered to the site from a source not meeting the approval of the Town, the Town reserves the right, at it's sole discretion to reject the plant material at no additional cost to the project.
3. **Documentation:** The Contractor shall be responsible for ensuring that plant material shipped from outside of the province shall have phytosanitary documents ensuring plant material are pathogen and pest free. A copy of the document shall be provided to Town's Representative.
4. **Storage and Protection:**
 - a) Protect plant material from frost, excessive heat, wind and sun during delivery.
 - b) Immediately store and protect plant material which will not be installed within 1 (one) hour after arrival at site in storage location approved by Consultant.
 - c) Protect plant material from damage during transportation:
 1. When delivery distance is less than 30 km and vehicle travels at speeds under 80 km/h, tie tarpaulins around plants or over vehicle box.

2. When delivery distance exceeds 30 km or vehicle travels at speeds over 80 km/h, use enclosed vehicle where practical.
 3. Protect foliage and root balls using anti-desiccants and tarpaulins, where use of enclosed vehicle is impractical due to size and weight of plant material.
- d) Protect stored plant material from frost, wind and sun and as follows:
1. For bare root plant material, preserve moisture around roots by heeling-in or burying roots in sand or topsoil and watering to full depth of root zone.
 2. For pots and containers, maintain moisture level in containers.
 3. Heel-in fibre pots.
 4. For balled and burlapped and wire basket root balls, place to protect branches from damage. Maintain moisture level in root zones
5. **On-site Storage:** Immediately store and protect plant material that will not be installed within one hour after arrival at site in storage location.
 6. **Timing:** The Contractor shall coordinate shipping of plants and excavation of planting pits to ensure minimum time lapse between digging and planting
 7. **Delivery Inspection:** Plant material may be subject to an initial inspection upon delivery to the Contractor's holding area. The Contractor shall notify the Town's Representative within twenty four (24) hours of plant material arrival from supplier and schedule a time for inspection. Plant material found not to meet the specifications will be rejected and replaced at no additional cost to the project.
 8. **Form:** The caliper, minimum branching height, minimum number of branches in head, and minimum root spread must be in accordance with the Specifications for Standard Shade Trees as required by the Canadian Standards for Nursery Stock, Latest Edition.
 9. **Out of Season Material:** Trees dug out of season will be rejected.
 10. **Utilities:** It shall be the Contractor's responsibility to have all underground services cleared. **Trees should not be planted within eight feet (8 ft.) (2.5m) of**

any underground utility. Contact the Town to coordinate a new location, if there is a confliction with locations indicted on the drawing.

11. **Marking:** All tree planting locations shall be identified by the contractor with a 2" x 2" wooden survey stake. Do not use actual trees to mark planting locations.
12. **Inspections:** The Contractor is responsible for all site inspections to ensure that the work described is carried out as specified.
13. **Adverse Site Conditions:** The Contractor shall inform designated Town staff of any site conditions that may interfere with the quality of work required or future survival of the plant material.

14. Planting:

1. Set out all plant material and review placement with the Town prior to placement.
2. Make adjustments to planting location as required.
3. Excavate to depth and width as indicated. Scarify sides of planting holes.
4. Tree and shrub pits are to be three (3) times the diameter of the root ball and only as deep as the root ball (see Diagram). Before placing the tree in the hole, check to see that the hole has not been dug too deep. The trunk flare must be visible after the tree has been planted. It is better to plant the tree a little high, 1" - 2" above the base of the truck flare, than to plant it below the original growing level
5. For Jute burlapped root balls, cut away top half (1/2) of wrapping and wire basket without damaging root ball. Do no pull burlap or rope from under root ball.
6. For container stock or root balls in non-degradable wrapping, remove entire container or wrapping without damaging the root ball.
7. Never lift the tree by the trunk. Always lift by the root ball to avoid damage to the roots. Do NOT step on the root ball as it may cause the root ball structure to fracture and the root breakage potential increases.
8. Trees and other plant materials are to be planted vertically, and care taken to orient plant material to give the best appearance in relation to surrounding structures, roads and walkways.

9. Place tree and plant material in the center of the planting hole on firm soil. Backfill planting hole by one third (1/3), remove exposed wire basket and burlap. Trees planted with the entire wire basket intact will be rejected and replaced at no additional cost to the project. Install two (2) stakes 900mm into the bottom of the tree pit beside the root ball, taking care not to damage the root ball. Water thoroughly until the water level has reached the top of the planting pit. Allow the water to subside, then backfill another one third (1/3), and water a second time. When complete, apply mulch to thickness of 40mm - 50mm. Water a third time when mulching is complete.
10. All necessary precautions shall be taken to limit and control erosion during planting operations. Any ruts and or exposed soil outside of the mulched covered tree plantings shall be filled in with topsoil and raked and seeded.
15. **Mulch:** Bark chip mulch shall be chips from bark of coniferous trees, varying in size from 25mm - 50mm in diameter.
16. **Trunk Protection:** Install plastic spiral perforated trunk protection on fruit bearing trees.
17. **Staking:**
 1. For large caliper trees two (2) steel t-bar stakes (240mm in length) shall be supplied and installed per tree. Stakes shall be placed on opposite sides of the tree, parallel to the street or sidewalk.
 2. For small caliper trees < 250cm, one (1) stake is required on the prevailing windward side of the wind.
 3. Additional information is indicated in the project details
 4. Following final acceptance, the steel stakes shall be permanently removed by the Contractor, and shall become the property of the Contractor.
 5. It is the Contractor's responsibility to monitor stakes and tie during the Warranty period, and remove stakes at the end of the Warranty period. The stake removal must be complete prior to the release of any remaining holdback.

18. ArborTie:

1. Trees shall be attached to the stakes using ArborTie. Wire and hose will not be accepted.
2. ArborTie green staking and guying material is to be flat woven polypropylene material, 20 mm (3/4") wide 400kg. (900 lb.) break strength.
3. Wherever possible the tie shall be placed above the lowest branch so as to prevent slippage.
4. The tie shall not be installed so tightly as to girdle the tree. The tree should be allowed some lateral movement and sway.
5. ArborTie shall be fastened to stakes in a manner that permits both tree movement and supports the tree.

19. Watering and Fertilizing:

1. All tree watering through the initial Warranty period or any extended Warranty period shall be the responsibility of the Contractor. Watering shall conform to current I.S.A. (International Society of Arboriculture) Standards for newly transplanted stock.
2. Plant material showing signs of drought stress while under Contractor's Warranty will be placed on extended Warranty. The Town shall notify the Contractor in writing of any required warranty extension.
3. It is the Contractor's responsibility to monitor all stress throughout any dry periods.
4. Remove weeds monthly or as often as required. **Pesticide use is NOT permitted.**
5. Replace or re-spread damaged, missing or disturbed mulch to originally specified depth.

20. Warranty Replacements:

1. During the Warranty period, the successful Contractor shall be responsible for removing any plant material from the site that has died or failed to grow satisfactorily as determined by the Town.

2. Replacement of plant material shall occur within forty-eight (48) hours of delivery from Suppliers. All previous plant material inspection requirements specified in this document shall remain in force covering replacement plant material.
3. Replacement plant material shall be placed on Extended Warranty for a period equal to that of the original Warranty period, from the time of replacement.
4. The Contractor shall continue such replacement and Warranty until such time as the Town deems the plant material "acceptable".
5. Any and all costs arising out of correction of unsatisfactory work performed or plant materials furnished shall be the responsibility of the Contractor.

21. **Maintenance:** With the exception of vandalism, the Contractor is responsible to maintain the health and wellness of the plant material from the time of delivery from the nursery until the end of the warranty period.

8. Grading, Topsoiling, Sodding:

1. **Scope:** This section governs the supply of all labour, equipment and materials for and topsoiling of property for the purposes of establishing or restoring ground cover.
2. **Erosion:** The Contractor is solely responsible to use techniques to prevent erosion until acceptance of turf by the Town.
3. **Standards:** All materials in this section are to be supplied by the Contractor. The Town's Representative shall be informed of proposed source of topsoil and seed. Topsoil sample analysis reports shall be provided to the Town proving that the proposed soil meets requirements, prior to commencement of construction. Basic soil tests must be done for N.P.K. (nitrogen / phosphorous / potassium), pH and OM. NO WORK MAY COMMENCE UNTIL IT IS PROVEN THAT THE PROPOSED TOPSOIL MEETS REQUIREMENTS. Installed topsoil may be subject to random testing. Non-compliant topsoil will not be accepted and will be ordered removed
4. **Topsoil:** Friable loam shall contain a minimum of 4% organic matter for clay loams and 2% for sandy loams to a maximum of 20% by volume, and having a

pH of 6.0 to 7.0. Topsoil shall be free of admixture of subsoil, refuse, roots, stumps, sod, and stones larger than 20mm.

5. **Fertilizer:** Fertilizer shall be complete commercial, specially blended for promoting root development of newly seeded or sodded areas, Scotts Turfbuilder, Nutrite Nutri S Starter Fertilizer, Nu-Gro Turf Starter or approved equivalent, with a formulating ratio of:
 - 80% SCU for spring and early fall planting (6-12-3)
 - 100% SCU for late fall planting (6-24-6)
 - Lime must be Agriculture grade dolomitic limestone
6. **Water:** Clean, fresh and free from impurities that inhibit plant growth.
7. **Topsoil Installation:**
 1. Work shall not be performed under adverse field conditions, such as frozen ground or ground covered with snow, ice or standing water, without prior approval.
 2. Sub-grade to be graded to eliminate uneven areas and rough spots, and to ensure positive drainage. All debris, roots, branches, stones in excess of 50mm diameter, and other deleterious materials shall be removed, as well as any subsoil that has been contaminated with toxic materials. Contaminated material shall be disposed of off-site.
 3. Prior to placing fill over existing ground, scarify surface to depth of 150 mm. Maintain fill and existing surface at approximately same moisture content to facilitate bonding.
 4. Topsoil shall not be spread until sub-grade has been inspected and test results of the topsoil being placed have been given to and accepted/ approved by the Town.
 5. Topsoil to be spread in uniform layer over dry sub-grade where seeding is indicated. Topsoil shall not be placed on frozen sub-grade.
 6. Topsoil depth for seeded areas shall be 150mm after rolling.
 7. Topsoil shall be brought to finished grade for seeded areas.

8. Topsoil to be fine graded to lines and elevations indicated, leaving surface smooth and uniform with a fine loose texture. Approval of topsoil grade and depth shall be obtained before proceeding with seeding.
9. All adjacent surfaces shall be flush and provide positive drainage unless otherwise noted.

8. Commercial Grade Turfgrass Nursery Sod:

- (a) Grass that has been seeded and cultivated in nursery sod fields as a turfgrass sod. At the time of sale, Commercial Grade Turfgrass Nursery Sod should be in healthy condition. Sod of this quality may contain up to 5 broadleaf weeds per 40 square metres and up to 20% native grasses. Sod should be of sufficient shoot density that no surface soil will be visible from a standing position when mowed to a height of 4 cm. The mowing height range should be 7 to 10 cm, with the exception of creeping bentgrass sod, where mowing height is determined by the end use. The thickness of the soil portion of the sod should not exceed 2.5 cm. (Thickness of the soil portion of the sod may vary with field and environmental conditions at time of harvest.) The soil portion shall be composed of at least 50% grass roots by volume.

9. Sod Installation:

- (a) Sod shall be placed as soon as possible after lifting to ensure proper establishment. Sod shall be placed in rows perpendicular to the slope, smooth and even with adjoining areas, and with joints staggered. Sections to be butted closely without overlapping or gaps between sections. Irregular or thin sections shall be cut out. If necessary, existing lawn or adjoining areas shall be cut out to accommodate sod. Sod shall never be placed over existing grass or lawn. Sod shall be rolled with a roller having a mass of 50 kg/m of width. Repeated rolling to correct irregularities in grade is not permitted.
- (b) Sod shall be thoroughly watered within 4 hours of placing to obtain moisture penetration through sod into top 100mm of topsoil.
- (c) For slopes steeper than 2 horizontal to 1 vertical (2:1), mesh shall be placed over topsoil and secured in place with pegs, then covered lightly with topsoil. Sod shall be placed next, secured with pegs. Pegs

shall be placed at 100mm below the top edges, spaced at 3 pegs per metre and flush with surface of root mat.

(d) The Contractor shall mow and maintain the health of the sod for the span of the Warranty period, unless otherwise directed by the Town

(e) Accessories:

(a) Pegs - Wood 25mm x 25mm x 200mm nominal size.

(b) Mesh - 37mm chicken wire or plastic.

10. Maintenance:

(a) The Contractor shall be responsible to establish and maintain turf cover.

(b) Seed or sod shall be watered adequately to assure continued growth. Watering shall be controlled to prevent washouts.

(c) Contractor will maintain turf until the Town of Iroquois Falls accepts the project at the end of construction. The town will maintain turf surfaces from this point forward; however, the contractor warranty remains in place until the end of the warranty period.

11. Acceptance and Town Maintenance Program:

1. Grassed areas will be reviewed for acceptance following the third mowing provided that growth is properly established, and the area is free of bare and dead spots and without weeds.
2. Areas installed by the end of July will be reviewed for acceptance prior to the end of the current growing season (October/November).
3. Areas installed after the end of July will be review for acceptance the following spring prior to the end of July.
4. Maintenance and mowing shall be continued on areas ordered replace or remediated until acceptance.

8. Asphalt Paving:

1. Asphalt base and surface courses shall be placed to proper line and grade to give the compacted depth, crown, profile and cross section as per these specifications and in accordance with the typical cross-sections shown on the drawings.
2. The overall thickness of the trail shall be 275mm, of which 200mm shall be the Aggregate Base material and 50mm shall be asphalt concrete, Type "Base Course" and 25mm shall be asphalt concrete Type "Sand Seal Surface Course".
3. Temperature of mixture shall not exceed 165°C for PGAC 58-28.
4. The temperature of asphalt mixes shall not be less than 118°C immediately after spreading and prior to breakdown rolling. The temperature ranges for mixing and compaction shall be verified using the temperature-viscosity chart for the used asphalt cement.
5. The base course shall not be applied unless air temperature at the surface of the trail is 2°C and rising. When air temperature drops below 2°C, paving operations will cease.
6. The surface course shall not be applied unless air temperature at the surface of the road is 5°C and rising.
7. Any mixture that does not comply with specifications shall be rejected.
8. Asphalt thickness greater than 75mm shall be place in two lifts. After final compaction, each course shall be smooth and true to required crown and grade. It shall have average thickness specified and shall vary no more than 6mm from specified thickness.
9. Weather Conditions: When paving on aggregate base, the base must be free from standing water. Asphalt concrete shall not be placed when weather conditions of fog or rain prevail, nor when the pavement surface shows any signs of moisture. Mixes applied on existing paved surfaces shall be laid upon a dry surface.
10. Transportation of Asphalt Mix: Trucks for transporting asphalt mixtures shall have tight, metal boxes free of foreign materials. Loads shall be covered with tarpaulins of sufficient size to overhang the fully loaded boxes and be tied down on three sides and the front shall be tight to the box of the truck or shielded to prevent air infiltration. Tarpaulins shall be rolled back and the hot

mix shall be uncovered immediately prior to dumping the load into the paver. Trucks may be lightly lubricated with an approved release agent, as required, but must be raised and drained after each application and before loading. Hydrocarbon fuels and solvents shall not be used.

11. Placing of Asphalt Concrete: No traffic shall be allowed on newly applied asphalt concrete until finish rolling is complete and the finished mat has been permitted to cool to 60° C. Water required to lower the mat temperature shall be supplied by equipment capable of applying the water at a uniform and even rate of distribution in such amounts as required and/or as the Town's Representative may direct.
12. Compaction equipment shall consist of at least one of each of the following i.e., 1. Steel Drum Vibratory Roller, 2. Pneumatic Tire Roller, and 3. Finish Roller. Finish rolling will be carried out with a steel drum roller, without vibration and exerting a contact pressure on compression roll of at least 3.0 kg/mm of drum width.
13. Transverse Construction Joint: A transverse construction joint shall be constructed at the end of each day's work and at other times when paving is halted for a period of time which will permit the asphalt concrete to cool below 100° C.
14. A transverse key joint shall be constructed between existing and new asphalt concrete pavement at the beginning and at the end of the project and other locations where the new pavement terminates against existing pavement. If a key is cut in advance of paving the joint area, the Contractor shall construct a smooth taper at the joint area to a minimum slope of 50:1, incidental to asphalt paving work.

9. Supply and Installation of Manufactured Play Equipment:

1. Installation:

1. All play equipment shall be installed as per manufacturer's specifications in accordance with CSA -Z614:20, IPEMA F-1487-07, and ASTM F1487- 07 "Standard Consumer Performance Specification for Playground Equipment for Public Use", and situated in the orientation and location as indicated on drawings, by an experienced installer.
2. Installation certification by a Level 2 playground inspector, and submission of certification to the Town prior to substantial completion is required.
3. A minimum of ten (10) years' experience is required for the installation crew foreman.

2. Inspection During Construction:

General day to day inspections will be done by the Town's inspector. For milestone inspections, the Contractor shall arrange and schedule with the Town to have the play equipment installation inspected by a CSA certified playground inspector during construction. The Contractor will not be entitled to make application for payment on play equipment or installation without inspection and approval of the inspector. Inspections shall be scheduled to meet the following minimums:

1. Footing excavation and post set-up prior to placement of concrete.
2. Posts and deck elements prior to installation of play event elements.
3. Final inspection of completed apparatus.

3. Components:

All components of each play set of play equipment features within one playground shall be from a single manufacturer. The manufacturer of the playground equipment must have a minimum of ten (10) years' experience in manufacturing commercial playground equipment.

4. IPEMA Certification:

An IPEMA Certificate covering all components shall be submitted for review with the shop drawing submission. Failure to submit certificate will result in shop drawings being rejected.

5. Footings:

direct embedment type in cast-in-place concrete. Minimum footing depth shall be 1320 (52") mm below finished grade, unless otherwise recommended by the contractor's structural engineer licensed to Practice in

the Province of Ontario. **Engineer-stamped drawings must submitted for approval for all footings.**

6. **Layout:** Arrange on site as indicated and in accordance with the drawings and specifications. Layout must be verified by the Town's Representative prior to installation.
7. **Warranty:** manufacturer's standard warranty including, but not limited to:
 1. 10-Year Limited Warranty on all aluminum posts, steel posts, stainless steel hardware against structural failure due to corrosion or deterioration from exposure to weather or caused by defects in materials and workmanship.
 2. 15-Year Limited Warranty on all rigid main play structure plastic, steel and vinyl coated components against structural failure due to corrosion or deterioration from exposure to weather or caused by defect in materials and workmanship; and, polyethylene slides and enclosures, plastic components and stainless steel slides against structural failure caused by defects in materials and workmanship.
 3. 8-Year Limited Warranty on all coated steel rope cables and Aeronet steel cables against structural failure due to corrosion or deterioration from exposure to weather caused by defects in materials and workmanship;
 4. 3-Year Limited Warranty on all remaining components against failure due to corrosion, natural deterioration or manufacturing defects.
 5. 1-Year Installation Warranty following final acceptance of installation.

8. Play Structure Products:

1. **Manufacturer:** As specified on associated contract drawings.

Certifications:

1. IPEMA Certified to current CSA Standard CSA -Z614:20
2. ISO 9001:2008 - process, manufacturing and quality certification
3. ISO 14001:2004 - environmental certification

2. **Arrangements:** Supplier and contractor to supply proposed play area layout prior to installation.
3. **Colours:** to be selected by the Town's Representative from manufacturer's standard ranges unless otherwise indicated.
4. **Major Components:** As specified.

9. Equipment and Component Specifications:

1. **Material:** All materials shall be structurally sound and suitable for safe play. Durability shall be ensured on all steel parts by the use of time-tested coatings such as zinc plating, galvanizing.
2. **Fasteners:** Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated. All primary fasteners shall include a locking patch type material that will meet the minimum torque requirements of IFI-125. Manufacturer to provide special tools for pinned tamperproof fasteners.
3. **Coatings:**
 1. **Metal components to be coated with a high-quality finish:** components shall be thoroughly cleaned in a hot phosphatizing pressure washer, then primed with a water-based thermosetting solution. Primed parts shall be preheated prior to dipping in UV stabilized, liquid polyvinyl chloride (PVC), then salt cured at approximately 400 degrees. Finished coating shall be approximately .080" thick at an 85 durometer with a minimum tensile strength of 1700 psi and minimum tear strength of 250 lbs/inch or client approved equivalent. Matte finish.
 2. **Metal components to be finished with high-quality finish:** components shall be thoroughly cleaned and phosphatized through a five-stage power washer. Parts shall be preheated and processed through a set of automatic powder spray guns with a minimum .002" of epoxy primer is applied. Minimum .004" of architectural-grade Super-Durable polyester TGIC powder applied. Average ProShield film thickness is .006".

- a) Hardness (D3363) rating 2H • Flexibility (D522) pass 3mm (1/8") mandrel
 - b) Impact (D2794) rating minimum 80 inch-pounds
 - c) Salt Fog Resistance (B117 and D1654) 4,000 hours and rating 6 or greater
 - d) UV Exposure (G154, 340 bulb) 3,000 hours, rating delta E of 2, and 90 percent gloss retention
 - e) Adhesion (D3359, Method B) rating 5B
 - f) Quality Assurance: factory daily adhesion testing.
4. **Decks:** shall be of modular design and have 8mm (5/16") diameter holes on the standing surface. Minimum of 4 slots in each face to accommodate face mounting of components. Decks shall be manufactured from a single piece of low carbon 12 GA (.105") sheet steel conforming to ASTM specification A-1011. The sheet shall be perforated with a return flange on the perimeter to provide the reinforcement necessary to ensure structural integrity. There shall be no unsupported area larger than 0.33sq m (3.5 sq ft). Units shall be TenderTuff-coated. Decks shall be designed so that all sides are flush with the outside edge of supporting posts.
 5. **Rotationally Moulded Polyethylene Parts:** moulded using prime compounded linear low-density polyethylene with a tensile strength of 2500 psi per ASTM D638 and with colour and UV-stabilizing additives. Wall thickness varies by product from 5mm (.187") (3/16") to 7mm (.312") (5/16").
 6. **Permalene Parts:** manufactured from 19mm" high-density polyethylene formulated for optimum UV stability and colour retention. Products shall meet or exceed density of .960 G/cc per ASTM D1505, tensile strength of 2400 PSI per ASTM D638.
 7. **Recycled Permalene Parts:** manufactured from 3/4" high-density polyethylene that has been specially formulated for optimum UV stability and color retention. Products shall meet or exceed density of .960 G/cc per ASTM D1505, tensile strength of 2400 PSI per ASTM

D638. Available in a three-layer product with (2) .100" thick coloured exterior layers over a .550" thick 100% recycled Black interior core

8. **Hardware Packages:** All shipments shall include individual component-specific hardware packages. Each hardware package shall be labeled with the part number, description, a component diagram showing the appropriate component, package weight, a bar code linking the hardware package to the job number, assembler's name, date and time the package was assembled, work center number, and work order number.
9. **Posts:** Post length shall be a minimum of 1070mm (42") above the deck height. All posts shall be ProShield finished. All posts shall have a "finished grade marker" positioned on the post identifying the 915mm bury line required for correct installation and the top of the loose fill protective surfacing. Top caps for posts shall be aluminum die cast from 369.1 alloy and ProShield finished to match the post colour. All caps shall be factory installed and secured in place with (3) self-sealing rivets. A moulded low-density polyethylene cap, with drain holes, shall be pressed onto the bottom end of the post to increase the footing area.
10. **Steel Posts:** steel posts are manufactured from 5" O.D. tubing (min.) with a wall thickness of .120" (min.) and shall be galvanized after rolling and shall have both the I.D. and the cut ends sprayed with a corrosion resistant coating.

Steel Post Mechanical Properties:

- Yield Strength (min): 50,000 PSI
- Tensile Strength (min): 55,000 PSI
- Elongation: 25% in 2 inches
- Modulus of Elasticity: 29.5 x 10⁶ PS

11. **Aluminum Posts:** aluminum posts are manufactured from extruded tubing conforming to ASTM B-221. Posts shall have a minimum .125" wall thickness.

Aluminum Post Mechanical Properties:

- Yield Strength (min): 35,000 PSI

- Tensile Strength (min): 38,000 PSI
- Elongation: 10% in 2 inches
- Modulus of Elasticity: 10 x 10⁶ PSI

12. **Clamps:** ProShield finished and, unless otherwise noted, shall be die cast using aluminum alloy and have the following mechanical properties:

- Ultimate Tensile: 47,000 PSI
- Yield Strength: 28,000 PSI
- Elongation: 7% in 2 inches
- Shear Strength: 29,000 PSI
- Endurance Limit: 20,000 PSI

Each functional clamp assembly shall have the appropriate number of half clamps and shall be fastened to mating parts with 2 9mm (3/8") x 28mm (1-1/8") pinned button head stainless steel cap screws and 2 stainless steel recessed "T" nuts. A 6mm (1/4") aluminum drive rivet with stainless steel pin is used to ensure a secure fit to the post.

13. **Safety Zone:** The completed play safety zone shall consist of EVERPLAY in situ accessible surfacing, or client-approved equivalent, installed as per manufacturer's specifications and as shown on associated contract drawings.

10. Site Furniture, Benches and Lighting:

1. **Manufacturer:** As specified on associated contract drawings.
2. **Colour:** To be selected from manufacturer's standard colour range.
3. **Installation:** As specified on associated contract drawings.

11. Bicycle Racks:

1. **Manufacturer:** As specified on associated contract drawings.
2. **Colour:** To be selected from manufacturer's standard colour range.

3. **Support:** Surface Plate Mounted onto concrete pad as detailed.

12. Artificial Turf:

1. **Manufacturer:** As specified on associated contract drawings.
2. **Installation:** As specified on associated contract drawings.

13. Mechanical Landscape Draining:

1. Refer to Appendix B Pipe Sub Drains.
2. **System:** Supply and install new PVC landscape drainage system 100mm dia. (4") perforated (with filter sock) and non-perforated corrugated drainage lead, and all required adapters, fittings and hardware for a complete functioning installation.
3. **Outfall:** As specified and located on Drawing No. L2.
4. **Installation:** Install components as per manufacturer's instructions and as detailed. Set drainage inlet box on compacted base within excavation and to level required.

14. Drainage Piping:

1. Refer to Appendix B Pipe Sub Drains.
2. Below ground: PVC SDR 35 to CAN/CSA B182.2.
3. Connect to water box floor drain stub out and into existing manhole at elevation indicated.
4. All work must meet the requirements of the Town's Public Works Department.

15. Supply and Installation of Manufactured Water Play Equipment:

1. Concrete, reinforcing and testing related to the construction of the splash pad equipment (including electrical/mechanical components) will conform to the specifications of the Professional Engineer licensed to practice in Ontario responsible for that component, and the splash pad manufacturer's recommendations as follows. Where conflict exists between the recommendations, the recommendations of the Professional Engineer shall prevail:
 - i. Submit shop drawings indicated.

- ii. Excavation: approximately 350mm to 450mm, levelling, preparation, compaction.
- iii. Base: 200mm to 300mm 38- crushed stone (granular A), compacted to 95% proctor.
- iv. Spray features: install spray features to manufacturers specifications, using sono-tubes or small pre-pad or suspended to be part of finished pad (as feature requires).
- v. Slope pattern: all spray feature water lines to be sloped back to sub-grade vault or mechanical room drain pit or hydraulic activator (for winterizing).
- vi. Pressure test: conduct pressure test on all water supply lines before backfilling/concrete pad. Manual test of drain (s) to holding tank or storm or sanitary.
- vii. Grounding: ground all splash pad features and activation bollards. Ground all reinforcing wire mesh. Inspect all electrical connections and grounding by a qualified electrician.
- viii. Pad: cast-in-place concrete pad to thickness indicated, light broom finish, slope to drain(s) as indicated. Concrete pad to be sidewalk mix with steel reinforcing wire mesh indicated, or alternate approved fibre mesh .
- ix. Concrete strength: 35 MPA at 28 days with pasterizer + 6% air entrainment.
- x. Control joints: 1/5th depth control cuts, spacing indicated, with caulking fill Vulkem by Tremco, or approved equivalent.
- xi. Size: overall diameter 9.1m / layout indicated.

END OF SECTION

APPENDIX A

BIDDER'S RESPONSE FORM

PROJECT NUMBER: Tender 2026-RF-REC-06

PROJECT TITLE: Devonshire Park Revitalization

PROJECT LOCATION: Devonshire Park, Cambridge Avenue, Iroquois Falls, Ontario

Submitted To: The Corporation of the Town of Iroquois Falls ("Owner")

We, _____
(Company Name)

of _____
(Business Address)

having examined the Bid Documents for the Project and Addenda No. _____ to No. _____ inclusive, all as issued by the Corporation of the Town of Iroquois Falls (Owner) and listed in Appendices (the "Bid Documents") and having visited and examined the Project site, hereby offer to enter into a contract to perform the work required by the Bid Documents (the "Work") inclusive of all specified allowances for the stipulated price as follows: **Contract Submission**

The Contract Price, which excludes Value Added Taxes, is:

_____/100 Dollars \$_____

in Canadian funds, any specified allowances and all applicable taxes in force at this date, excluding H.S.T., except as may be otherwise provided in the Bid Documents.

Appendices to Bid:

The information provided in the attached Appendices form an integral part of this Bid.

Declarations:

We hereby declare that:

- 1. we acknowledge and agree to abide by all of the terms and conditions as set out in the Instructions to Bidders.

2. we agree to perform the Work in compliance with the terms and conditions stated in the Bid Documents and within the required completion schedule stated in the Bid Documents, or if no schedule is stated, to attain Substantial Performance of the Work within _____ weeks after receiving notice of Contract award;
3. no person, firm or corporation other than the undersigned has any interest in this Bid or in the proposed Contract for which this Bid is made;
4. this Bid is irrevocable and open to acceptance for a period of sixty (60) days from the date of Bid closing, irrespective of the acceptance by the Town of any other Bid or the issuance of a notice of acceptance of any other Bid;
5. We agree that the Town has the absolute right to accept or to reject the offer that this Bid comprises, for any reason whatsoever, without explanation, including if it contains the lowest stipulated price of the Bids received by the Town;
6. If this Bid is accepted by the Town within the time period stated, we undertake and agree to furnish the following documents, in addition to the signed Contract, all within seven (7) days from the date of acceptance:
 - a) deliver to the Town a Bond covering the amount of the contract upon execution of the Contract Agreement, issued by the Surety Company. The cost of the bonds shall be included in the Bid price;
 - b) deliver to the Town certificate(s) of insurance from an approved insurance company licensed to carry on business where the Work is to be performed, evidencing the insurance coverage as required under the Contract;
7. We acknowledge and agree that we shall not be entitled to any compensation for the cost of preparing this Bid, nor shall the Town have any obligation to compensate us for the cost of preparing this Bid. We further acknowledge that neither the Town, nor the Consultant, nor their representatives or agents, shall be liable to us for any cost, loss or damages suffered or incurred as a result of the rejection of this Bid.

Signatures:

Signed, sealed and submitted for and on behalf of:

Company: _____
 (Company Name)

(Street Address or Postal Box Number)

(City, Province & Postal Code) (Apply SEAL above)

Signature: _____

Name & Title: _____
(Please Print or Type)

Witness: _____

Dated at _____ this _____ day of _____, 202____.

N.B. Where legal jurisdiction or Owner requirement calls for proof of authority to execute this Bid, proof of such authority in the form of a certified copy of a resolution naming the person or persons in question as authorized to sign this Bid for and on behalf of the Corporation or Partnership should be attached.

8. SCHEDULE OF QUANTITIES AND UNIT PRICES

Rates shall be provided in Canadian funds, inclusive of all applicable duties and taxes except for HST, which must be itemized separately.

Rates quoted by the bidder shall be all-inclusive and shall include all labour and material costs, all travel and carriage costs, all insurance costs, all costs of delivery to the Town, all costs of installation and set-up, including any pre-delivery inspection charges, manuals, warranty and all other overhead, such as any applicable fees or other charges.

Item #	Description	Estimated Quantity	Unit of Measure	Unit Price	Extended Price
1	Site preparation, safety barriers, clearing, excavation, sub-base preparation, in-ground Infrastructure and drainage, and all associated civil and site works as specified in the drawings and specifications	1	Lump Sum	\$	\$
2	Landscape Reinstatement for all softscape areas and prepared bases and all associated site works as specified in the drawings and specifications	1	Lump Sum	\$	\$
3	Supply and installation of specified planting beds as specified in the drawings and specifications	1	Lump Sum	\$	\$
4	Supply and installation of Tilia x flavescens 'Glenleven' (Glenleven Linden), 100mm caliper as specified in the drawings and specifications	8	each	\$	\$
5	Supply and installation of all specified hardscape and pedestrian surfaces including all asphalt, concrete, artificial turf, and granular surfaces, as specified in the drawings and specifications	1	Lump Sum	\$	\$
6	Supply and installation of all concrete curbing and play equipment foundations, as specified in the drawings and specifications	1	Lump Sum	\$	\$
7	Supply of Landscape Structures Facet Steppers Set (items 237103, 237104, 237105) as specified in the drawings and specifications	2	Each	\$	\$

Item #	Description	Estimated Quantity	Unit of Measure	Unit Price	Extended Price
8	Supply of Landscape Structures Oodle Swing, Double (item 210117) as specified in the drawings and specifications	1	Each	\$	\$
9	Supply of Landscape Structures Friendship Swing w/5" Arch Frame DB Only Proguard Chains (item237293) as specified in the drawings and specifications	1	Each	\$	\$
10	Supply of Landscape Structures 5" Arch Swing Additional Bay DB Only (item 221293) as specified in the drawings and specifications	1	Each	\$	\$
11	Supply of Landscape Structures Belt Seat w/Proguard Chains 8' Beam Height (item174018) as specified in the drawings and specifications	2	Each	\$	\$
12	Supply of Landscape Structures Motion w/Play Table (item197057) as specified in the drawings and specifications	1	Each	\$	\$
13	Supply of Landscape Structures IND Super Netplex 12' & 12' Towers (item254629) as specified in the drawings and specifications	1	Each	\$	\$
14	Supply of Landscape Structures Arches Bike Rack (item185654) as specified in the drawings and specifications	8	Each	\$	\$
15	Supply of Landscape Structures Log Bench (item173595) as specified in the drawings and specifications	8	Each	\$	\$
16	Supply of Landscape Structures Kaleidoscope Litter Receptacle (item186589) as specified in the drawings and specifications	3	Each	\$	\$
17	Installation of Landscape Structures play equipment as specified in the drawings and specifications	1	Lump Sum	\$	\$
18	Supply and Installation of poured in place safety surfacing as specified in the drawings and specifications	1	Lump Sum	\$	\$

Item #	Description	Estimated Quantity	Unit of Measure	Unit Price	Extended Price
19	Supply and Installation of all water play/splash pad mechanical, electrical, and play equipment, including concrete pad and concrete equipment foundations, including all associated civil and site works, as specified in the drawings and specifications	1	Lump Sum	\$	\$
20	Supply and Installation of lighting fixtures, poles, bases, electrical connections and associated works as specified in the drawings and specifications	5	each	\$	\$

SUB-TOTAL (Items 1-20): \$ _____

H.S.T.@13%: \$ _____

TOTAL TENDERED PRICE: \$ _____

Provide unit pricing for pedestrian surfaces as specified. Should a change order be issued for additional pedestrian surfaces, the cost will be calculated as per these unit prices.

Item #	Description	Estimated Quantity	Unit of Measure	Unit Price
A	Supply and installation of additional concrete pedestrian surfaces as specified in the drawings and specifications	1	m ²	\$
B	Supply and installation of additional asphalt pedestrian surfaces as specified in the drawings and specifications	1	m ²	\$

9. PROJECTED COMPLETION DATES

- a) Tenderer agrees to complete the Work within _____ weeks of the August 15, 2026 start date.
- b) All work, including deficiencies, must be completed no later than October 30, 2026.

10. SIGNATURES

DATED THIS _____ DAY OF _____, 20_____.

[Seal]

Name of Firm

Signature of Witness

Signature of Signing Officer

Name of Witness

Name and Title (Printed)

Signature of Witness

Signature of Signing Officer

Name of Witness

Name and Title (Printed)

Company Address

Telephone No.

Email Address

Person signing must be authorized to sign on behalf of the Company/Individual represented.

11. SUPPLEMENTARY TENDER INFORMATION

(a) SUBCONTRACTORS

List all subcontractors. The provision of the subcontractor list is an undertaking by the contractor to use the listed subcontractor on the project. Obtain the Town's approval to add or delete named subcontractors from the above list after the tenders have closed. Award will not be dependent on the sub-contractor list. Include additional copies of this page with additional information if more than four Subcontractors will be used for this project.

Subcontractor Name: _____

Description of subcontracted work: _____

Subcontractor Name: _____

Description of subcontracted work: _____

Subcontractor Name: _____

Description of subcontracted work: _____

Subcontractor Name: _____

Description of subcontracted work: _____

(b) PROJECT REFERENCES

Please provide proof of experience in similar work, successfully completed within the last five (5) year period:

Company Name: _____

Contact Person: _____ Telephone: _____

Description of work: _____

Company Name: _____

Contact Person: _____ Telephone: _____

Description of work: _____

Company Name: _____

Contact Person: _____ Telephone: _____

Description of work: _____

(c) LIST OF KEY STAFF

Provide the names of Key Staff to be employed for this work (i.e. Project Manager, Site Superintendent, etc.)

Employee Name and Role: _____

Work Experience and Qualifications: _____

Employee Name and Role: _____

Work Experience and Qualifications: _____

Employee Name and Role: _____

Work Experience and Qualifications: _____

Employee Name and Role: _____

Work Experience and Qualifications: _____

END

APPENDIX B

ADDITIONAL STANDARD SPECIFICATIONS

PART 1 - GENERAL REQUIREMENTS

1. GENERAL

- a) At the time of tendering, the latest edition of all Ontario Provincial Standard Specifications (OPSS) and Ontario Provincial Standard Drawings (OPSD) form part of this Contract.

2. LUMP SUM FOR OTHER REQUIREMENTS

- a) For the 'Lump Sum for Other Requirements' item in the Schedule of Items and Prices, the tenderer shall enter their tender price for providing items such as access to the site, access to pathways, maintaining vehicular access and parking areas, fencing construction areas, their own site offices, stores and conveniences, watchmen, permits and approvals (other than those to be paid for by the Owner), and items required by the Drawings and Specifications but which have been omitted from the Schedule of Items and Prices and other items required by the Contract but not specifically covered by or related to the other items in the Schedule of Items and Prices.
- b) Each Progress Payment Certificate will include a percentage of the tender price of this item in accordance with the percentage of the permanent works completed.
- c) The submission by a tenderer of an unbalanced price for this item renders him liable to disqualification.

3. COORDINATION MEETINGS

- a) The Contractor shall attend such meetings as may be required by the Town's Representative to coordinate services affected by the Contract.

4. NOTIFICATION OF NEWLY INSTALLED INFRASTRUCTURE

- a) The Contractor is advised that the construction of above ground and/or below ground facilities within the Contract limits may be carried out by the work force of the Owner during the Contract period of this project. The Contractor shall inform the Town's Representative and/or Utilities of infrastructure installed by the Contractor's forces or infrastructure recently being installed by other utilities.

5. UTILITIES - PROTECTION AND MAINTENANCE

- a) The location of existing utilities have been shown on the plans according to the best available information to permit Contractors to prepare their Tender with a knowledge of the existence of such utilities along and across the line of the excavations to be made.

- b) No responsibility will be assumed by the Owner for the correctness or completeness of the drawings with respect to existing utilities and should the Drawings of such be found to be incorrect or incomplete, the Contractor shall have no claim on that account.
- c) Where necessary, the Contractor shall make exploratory excavations to determine location of existing pipes, conduits, etc. This shall include arranging for utility locates on the site. The Contractor shall make all Subcontractors aware of existing utilities prior to commencing any work on this project by Subcontractors.
- d) Any utilities plant uncovered as part of the road reconstruction work must first be inspected by the associated utility representative prior to backfilling. If work is required on the existing plant, the Contractor shall coordinate the work with the utility and upon completion recommence backfilling the utilities plant.
- e) Any damage to a utilities plant due to the Contractor's carelessness, uncontrolled work, unsupervised work, or non-located utilities will be repaired by the utility and all costs will be billed to the Contractor.
- f) The Contractor shall be responsible for the temporary support, protection or relocation of any utility within the Contract limits as required during construction. This shall include providing assistance to the Owner or the Utility corporations during construction. This work shall include all time for delays due to working around, working by hand or day lighting existing utilities.
- g) If a permanent relocation or replacement of an existing utility becomes necessary, at the discretion of the Town/Town's Representative, during the Work, the Contractor shall cooperate with the Owner's forces or the utility corporation to allow them the opportunity to make necessary alterations to their utilities.
- h) There will be no additional payment to the Contractor for any delays due to the relocation of utilities, or for any bracing and support of underground and aboveground utilities.

6. POWER AND WATER

- a) The Contractor shall make their own arrangements for the supply of power and water required for construction and maintenance purposes and such costs shall be included in the total Contract price for the work.

7. TEMPORARY BUILDINGS AND STAGING AREAS

- a) Staging areas and locations of all temporary buildings used for construction purposes must be approved by the Town's Representative before work commences.
- b) Temporary buildings and staging areas must be kept clean and free from dust nuisances.
- c) The relocation of temporary buildings within the limits of Contract when ordered by the Town's Representative shall be at the Contractor's expense.

8. SANITARY REQUIREMENTS

- a) The Contractor shall prohibit the committing of nuisance on site by forces under his control and any employee found violating such provisions shall be removed from the site immediately.
- b) Throughout the period of the Contract, the Contractor shall provide suitable and adequate toilet facilities for all persons employed on the work subject to approval of type, size and location by the local authorities and the Town's Representative.
- c) The facilities shall be maintained in proper sanitary condition, frequently disinfected and when directed by the Town's Representative, shall be removed from the works. Any contaminated soil and materials shall be removed and properly disposed of and replaced with fresh clean material and the site left in a clean sanitary condition.

9. FIRST AID

- a) The Contractor shall provide and maintain on the site where construction is being carried out, completely equipped first aid facilities in a clean orderly condition, which shall be readily accessible at all times to all persons at the Working Area.
- b) The Contractor shall designate competent employees to be in charge of first aid. At least one such employee shall always be available on the site while work is being carried out. A telephone call list for summoning aid such as doctors, ambulances, and rescue squads from outside sources shall be conspicuously posted.

10. SURVEY CONTROLS AND PROPERTY MONUMENTS

- a) The Contractor shall be responsible for all layout. The Town/Town's Representative will provide benchmark elevations and horizontal control to the Contractor.
- b) The Contractor shall verify locations of all survey controls and property monuments prior to construction.

- c) During construction, the Contractor shall protect and preserve all survey controls and property monuments. Any removed, bent, or damaged bars and monuments attributable to the Contractor's operations must be replaced by an Ontario Land Surveyor paid for by the Contractor.
- d) Removal or destruction of legal survey monuments is a punishable offence under the Criminal Code of Canada (R.S. 1985, c.C-34, s. 398).
- e) The Owner will provide an inventory of legal survey monuments located within the project limits. The Owner will not certify, nor has the authority to certify that the property monuments listed in the inventory are actual property corners or represent property boundaries.
- f) Upon completion of construction activities, the Owner will verify by field inspection that the survey controls and property monuments are in their original location as measured prior to construction.
- g) Any survey controls or property monuments that are destroyed or disturbed during construction must be replaced by an Ontario Land Surveyor (OLS) authorized to practice in the Province of Ontario. The OLS must provide a letter certifying that the monuments have been replaced prior to release of hold back. All costs shall be borne by the Contractor.

11. SAFETY

- a) The Contractor shall provide the Town's Representative with a list of equipment, materials and personal protective devices to be used by the Contractor in carrying out the Work.
- b) The Contractor shall provide the Town's Representative with a copy of the Contractor's written Occupational Health & Safety policy and shall also adhere to the Owner's Occupational Health & Safety Policy.
- c) The Contractor agrees that the Owner may stop the work, without any claim or penalty by the Contractor, in the event that the work is being carried out without the equipment, materials or protective devices listed by the Contractor or in the event that the work is not being carried out in compliance with the Occupational Health & Safety policy of the Contractor.
- d) In the event of non-compliance by the Contractor with the Occupational Health & Safety Act, the Owner may exercise all such remedies as would apply for the improper performance of any other aspect of the Contract, including the right to stop the work.

- e) The Contractor releases and discharges the Owner from any claim or demand for any action taken by the Owner to exercise its duties of due diligence under the Occupational Health & Safety Act.
- f) The Contractor agrees to obtain similar acknowledgments as set out above from all of its Subcontractors.

12. HOURS OF WORK

- a) The Contractor's hours of work shall be limited to 7:00 a.m. to 7:00 p.m. No equipment shall be started prior to 7:00 a.m.
- b) Work shall not be carried out on Saturdays, Sundays, civic holidays, or statutory holidays unless otherwise permitted by the Town's Representative.
- c) The Contractor is not permitted to undertake night work unless approved by the Owner or during emergency work as deemed necessary by the Town's Representative.

13. AS-CONSTRUCTED DRAWINGS

- a) The Contractor shall provide as-constructed drawings and information through the course of the Work ready for review by the Town/Town's Representative at any time. The drawings and information shall be reviewed with every progress payment certificate.
- b) As-constructed drawings shall be completed on a clean set of "Approved for Construction" with red line revisions showing the as-constructed information. The Owner's title block and Architect or Engineer's seal shall be deleted from all drawings.
- c) The Contractor shall furnish a qualified and experienced person, whose duty and responsibility shall be to maintain as-constructed documents.
- d) Red line revisions shall be legible and accurate entries on each drawing and other documents where such entry is required to show change.
- e) Red line revision information shall be recorded concurrently with construction progress and shall be made within 24 hours after receipt of information that a change in Work has occurred.
- f) Work shall not be backfilled, covered, or concealed until required as-constructed information is recorded.
- g) Drawings shall be signed by the author.
- h) Drawings shall be accompanied by digital record.

- i) Prior to submitting each request for progress payment, the Contractor shall request the Town/Town's Representative's review and approval of current status of as-constructed documents. Failure to properly maintain, update, and submit as-constructed documents may result in a deferral by Town/Town's Representative to recommend whole or any part of the Contractor's request for progress payment, either partial or final.

END OF SECTION

PART 2 - TRAFFIC CONTROL AND ROAD CLOSURES

1. TRAFFIC CONTROL AND SIGNAGE

- a) This General Requirement shall be read in conjunction with the tender item "Traffic Control and Signage" and suggested detour plan. This item will be paid as a percentage equal in amount to the percentage of work completed on total Contract value.

1.2. GENERAL

- a) All traffic control shall be supplied, installed, maintained and removed by the Contractor in accordance with the requirements of Book 7 of the Ontario Traffic Manual.
- b) The Contractor shall conduct the operations to cause the least possible interruption to the traveling public and nearby residents.
- c) In the event of the Contractor's operation causing delay and inconvenience to the flow of traffic on roads, the Town's Representative may restrict the number of trucks driving onto the road during certain hours. The Contractor shall have no claim for additional payment resulting from such restrictions.
- d) The Contractor shall obtain a Street Work Permit from the municipality's Public Works Department. Notification of all emergency agencies (ambulance, fire, police), school boards and bus transport companies shall be completed by the Contractor.
- e) Prior to the use of any roads by detoured traffic, the Contractor shall obtain detailed photographs of all roadways.
- f) The Contractor shall prevent dust nuisance in the work area by applying water from time to time and when directed by the Town's Representative.
- g) If in the opinion of the Town's Representative the Contractor is negligent in the duties of maintaining proper cleanliness, the Owner will take the necessary steps to perform such cleaning and shall charge the Contractor all costs therefore.

1.3. TRAFFIC CONTROL PLAN SUBMISSION REQUIREMENTS

- a) For each traffic staging phase, the Contractor shall prepare a traffic control plan in accordance with Book 7 "Temporary Conditions" of the Ontario Traffic

Manual. The plan shall be submitted it to the Town's Representative for review and approval.

- b) The plan shall include the following:
 - A. the roadway network for the full extent of the area impacted by the traffic control setup
 - B. the limits of the work area
 - C. the location and placement of traffic control signage, including images and labels of the actual signs from Book 7, as well as a depiction/image of any supplemental signage required for the contract
- c) A Street Work Permit shall not be issued until the initial traffic control plan has been approved by the Town's Representative.

1.4. MAINTENANCE OF ROAD THROUGHOUT THE WORK

- a) The Contractor shall maintain the roadway to an acceptable standard for travel. At no additional cost to the Contract, and at the discretion of the Town's Representative, the Contractor may be instructed to place Granular 'A', calcium chloride, bituminous patching materials, etc. to augment normal maintenance. During the evening and weekend periods, traffic is to be permitted on the roadway, using appropriate signage if a detour is not in place.

1.5. RIGHT OF ACCESS OF ADJACENT PROPERTY OWNERS

- a) It is the Contractor's responsibility to maintain access to adjacent properties and businesses throughout the Working Area and traffic control area.
- b) Where construction activities prevent normal access to driveways and walkways, the Contractor shall give each owner or tenant reasonable notice of the time of construction. If in the opinion of the Town's Representative, the Contractor has not backfilled the trench and restored normal access within a reasonable time, the Town's Representative may order the Contractor to provide alternative means of access, such as bridging the trench, and such access shall be provided at the Contractor's own expense.

1.6. TRAFFIC SIGNAGE

- a) Where the Ontario Traffic Manual (OTM) Book 7 provides the option to utilize a TC-12 or a TC-7, a solar powered (with battery backup) TC-12 sign shall be used.

2. ROAD CLOSURES

- a) No existing Municipal Street shall be occupied or closed without permission of the Town's Representative. The Contractor shall notify the Town's Representative in writing of the intention to work on a road at least ten (10) working days in advance of such action, and shall not detour nor restrict traffic until the Town's Representative's written approval has been received. All work which restricts or detours traffic shall be carried out systematically and expeditiously so as to minimize the inconvenience to vehicular and pedestrian traffic.
- b) The Contractor will be responsible for the setting up of and maintenance of all detour and pathway detour signs, barricades, and pedestrian signage.
- c) Prior to the closure of any section of roadway, the Contractor shall have all materials necessary to complete the proposed work within the area of road closure. Once the roadway is closed, the Contractor shall work immediately and continuously to complete in accordance with the approved time schedule all the proposed work within the area of the closed roadway, with the exception of surface course asphalt, sidewalks, and landscaping.

END OF SECTION

PART 3 - CONSTRUCTION SCHEDULE & PROGRESS DOCUMENTATION

1. CONSTRUCTION SCHEDULE AND PROGRESS DOCUMENTATION

1.1. GENERAL

- a) The Contractor shall submit the proposed schedules in accordance with this Standard Specification.
- b) The Contractor shall monitor the progress of the work relative to the schedule and shall maintain the construction schedule. Any deviation from the schedule due to weather conditions, labour disputes or any other causes whatsoever, are to be made up by extra forces, overtime work, or any other measures that may be required to bring progress of the work back onto the construction schedule. The Contractor shall not be entitled to additional payment for such remedies.

1.2. SUBMITTALS

- a) Informational Submittals:
 - i. Preliminary Progress Schedule:
 - A. Submit within five (5) working days after the written order to commence work.
 - ii. Detailed Progress Schedule:
 - A. Submit initial detailed progress schedule a minimum of two weeks before scheduled to commence work.
 - B. Submit an updated progress schedule at each regular update interval.
 - iii. Submit with each progress schedule submission:
 - A. Contractor's certification that progress schedule submission is actual schedule being utilized for execution of the Work.
 - B. An updated progress schedule.
 - C. Narrative Progress Report.
 - iv. Prior to final payment, submit a final updated progress schedule.

1.3. PRELIMINARY PROGRESS SCHEDULE

- a) Submit a schedule beginning with the written order to commence. Show detailed activities for the initial duration of 120 days and a summary for the balance of the Project through Completion.
- b) Update the preliminary progress schedule monthly as part of the progress payment process. Failure to do so may cause the Owner to withhold all or part of the monthly progress payment until the preliminary progress schedule is updated in a manner acceptable to the Town/Town's Representative.

1.4. DETAILED PROGRESS SCHEDULE

- a) Submit a detailed progress schedule beginning with the written order to commence and continuing through Completion.
- b) Show the duration and sequences of activities required for complete performance of the Work reflecting the means and methods chosen by the Contractor.
- c) When accepted by the Town/Town's Representative, the detailed progress schedule will replace the preliminary progress schedule and become the baseline schedule. Subsequent revisions will be considered as updated progress schedules.
- d) Update monthly to reflect actual progress and occurrences to date, including weather delays.

1.5. PROGRESS SCHEDULE TASK & ACTIVITY CONTENT

- a) Preliminary and Detailed Progress Schedules shall show tasks and activities including, but not limited to the following:
 - i. Order to commence
 - ii. Mobilization
 - iii. Permits
 - iv. Submittals, with review time and fabrication time
 - v. Early procurement activities for equipment and materials requiring long lead-time for order, fabrication, and delivery
 - vi. Owner supplied products delivery dates or ranges of dates.

- vii. Major Work sequences and logically grouped activities (e.g. storm, sanitary, watermain, road, electrical) and construction constraints on a block to block basis or suitable working area intervals.
- viii. Traffic control setup and site access requirements for each Work sequence.
- ix. Contract Milestones
- x. Commissioning.
- xi. Substantial Performance
- xii. Completion
- xiii. Demobilization.
- xiv. Project close out.

1.6. PROGRESS SCHEDULE FORMAT

a) General:

- i. Preliminary and Detailed Progress Schedules shall be formatted in accordance with the requirements in this section.
- ii. Schedules shall be comprehensive and computer generated using the Critical Path Method, generally as outlined herein.

b) Graphical Display of Progress Schedule:

- i. Title Block: Show name of Project, Owner, date submitted, revision or update number, and the name of the scheduler. Updated schedules shall indicate data date.
- ii. Legend: Show standard and special symbols used.
- iii. View: Use a Gantt view so that the task bars show critical path, schedule baseline, actual task start and completion, task progression, and task progression percentage.

1.7. PROGRESS OF WORK

a) Updated progress schedule shall reflect:

- i. Progress of Work to within 5 working days prior to submission.

- ii. Approved changes in Work scope and activities modified since submission.
 - iii. Delays in submittals or resubmittals, deliveries, or Work.
 - iv. Adjusted or modified sequences of Work.
 - v. Other identifiable changes.
 - vi. Revised projections of progress and completion.
 - vii. Report of changed logic.
- b) Produce detailed sub-schedules during the Project, upon request of the Owner or the Town/Town's Representative, to further define critical portions of the Work.
 - c) If the Contractor fails to complete activity by its latest scheduled completion date and this failure is anticipated to extend the Contract Times (or Milestones), the Contractor shall, within 7 days of such failure, submit a written statement as to how the Contractor intends to correct non-performance and return to acceptable current progress schedule. Actions by the Contractor to complete the Work within the Contract Times (or Milestones) will not be justification for adjustment to the Contract Price or Contract Times.
 - d) The Owner may order the Contractor to increase plant, equipment, labour force, or working hours if the Contractor fails to: i) Complete a Milestone activity by its completion date.
 - e) Satisfactorily execute Work as necessary to prevent delay to overall completion of Project, at no additional cost to Owner.

1.8. NARRATIVE PROGRESS REPORT

- a) Format:
 - i. Organize same as progress schedule.
 - ii. Identify, on a cover letter, reporting period, date submitted, and name of author of report.
- b) Contents:

- i. Number of days worked over the period, work force on hand, construction equipment on hand (including utility vehicles such as pickup trucks, maintenance vehicles, stake trucks).
- ii. General progress of Work, including a listing of activities started and completed over the reporting period, mobilization/demobilization of Subcontractors, and major milestones achieved.
- iii. Contractor's plan for management of site (e.g., staging areas, construction traffic, etc.), utilization of construction equipment, buildup of labour, and identification of potential Contract changes.
- iv. Identification of new activities and sequences as a result of executed Contract changes.
- v. Documentation of weather conditions over the reporting period, and any resulting impacts to the work.
- vi. Description of actual or potential delays, including related causes, and the steps taken or anticipated to mitigate their impact.
- vii. Changes to activity logic.
- viii. Changes to the critical path.
- ix. Identification of, and accompanying reason for, any activities added or deleted since the last report.
- x. Steps taken to recover the schedule from Contractor caused delays.

1.9. SCHEDULE ACCEPTANCE

- a) The Town/Town's Representative's acceptance will demonstrate agreement that:
 - i. Proposed schedule is accepted with respect to:
 - A. Contract Times, including Completion and all intermediate Milestones are within the specified times.
 - B. Specified Work sequences and constraints are shown as specified.
 - C. Specified Owner supplied equipment or material arrival dates, or range of dates, are included.

- D. Access restrictions are accurately reflected.
 - E. Submittal review times are as specified.
- ii. In all other respects, the Town/Town's Representative's acceptance of the Contractor's schedule indicates that, in the Town/Town's Representative's judgment, the schedule represents a reasonable plan for constructing Work in accordance with the Contract Documents. The Town/Town's Representative's review will not make any change in the Contract requirements. Lack of comment on any aspect of the schedule that is not in accordance with the Contract Documents will not thereby indicate acceptance of that change, unless the Contractor has explicitly called the nonconformance to the Town/Town's Representative's attention in submittal. The schedule remains the Contractor's responsibility and the Contractor retains responsibility for performing all activities, for activity durations, and for activity sequences required to construct the Work in accordance with the Contract Documents.
- b) Unacceptable Preliminary Progress Schedule:
 - i. Make requested corrections; resubmit within 10 days.
 - ii. Until acceptable to the Town/Town's Representative as the preliminary progress schedule, continue review and revision process, during which time the Contractor shall update schedule on a monthly basis to reflect actual progress and occurrences to date.
 - c) Unacceptable Detailed Progress Schedule:
 - i. Make requested corrections; resubmit within 10 days.
 - ii. Until acceptable to the Town/Town's Representative as the baseline detailed progress schedule, continue review and revision process.
 - d) Narrative Report: All changes to activity duration and sequences, including addition or deletion of activities subsequent to the Town/Town's Representative's acceptance of baseline progress schedule, shall be delineated in the Narrative Report current with the proposed updated progress schedule.

1.10.ADJUSTMENT OF CONTRACT TIMES

- a) Reference General Conditions and Information to Tenderers.

- b) Evaluation and reconciliation of adjustments of Contract Times shall be based on the updated progress schedule at the time of proposed adjustment or claimed delay.
- c) Slack:
 - i. Slack time is a Project resource available to both parties to meet Contract Milestones and Contract Times.
 - ii. Use of slack suppression techniques such as preferential sequencing or logic, special lead/lag logic restraints, and extended activity times are prohibited, and use of slack time disclosed or implied by use of alternate slack suppression techniques shall be shared to proportionate benefit of the Owner and the Contractor.
 - iii. Pursuant to above slack-sharing requirement, no time extensions will be granted nor delay damages paid until a delay occurs which (i) impacts Project's critical path, (ii) consumes available slack or contingency time, and (iii) extends Work beyond the Contract Time for Completion.
- d) Claims Based on Contract Times:
 - i. Where the Town/Town's Representative has not yet rendered formal decision on the Contractor's claim for adjustment of Contract Times, and parties are unable to agree as to amount of adjustment to be reflected in the Progress Schedule, the Contractor shall reflect an interim claim adjustment in the Progress Schedule as acceptable to the Town/Town's Representative.
 - ii. It is understood and agreed that such interim acceptance will not be binding on either the Contractor or the Owner, and will be made only for the purpose of continuing to schedule Work until such time as formal decision has been rendered as to an adjustment, if any, of the Contract Times.
 - iii. The Contractor shall revise the Progress Schedule prepared thereafter in accordance with the Town/Town's Representative's formal decision.

END OF SECTION

PART 4 - MANAGEMENT OF EXCESS MATERIAL (OPSS.MUNI 180 SUPPLEMENTARY SPECIFICATION)

1. GENERAL

- a) The following are amendments and additions to the November 2016 revision.
- b) On January 1, 2021, Phase One of Ontario's new On-Site and Excess Soil Management Regulation, O. Reg 406/19, and supporting amendments (the "Regulation") took effect under the province's Environmental Protection Act ("EPA"). The Regulation introduces a new framework for the excavation, removal and transport of "excess soils" between two or more sites.

2. SCOPE (180.01)

- a) This specification includes the requirements of O. Reg. 406/19: ON-SITE AND EXCESS SOIL MANAGEMENT that was filed in December 2019 and took effect on January 1, 2021

3. REFERENCES (180.02)

- a) On-site and Excess Soil Management, O.Reg.406/19
- b) Records of Site Condition, O.Reg.153/04
- c) General - Waste Management, O.Reg.347
- d) Aggregate Resource Act, R.S.O. 1990, c.a.8
- e) Transportation of Dangerous Goods Act, 1992

4. DEFINITIONS (180.03)

- a) For the purposes of this specification, the Definitions under O.Reg 406/19 shall apply. Additional definitions shall also apply for clarification as follows:
 - i. Project Leader: The Corporation of the Town of Iroquois Falls' designated Town's Representative;
 - ii. Project Leader's Qualified Person (QP-PL): The Owner will retain or appoint a person to act as the Owner's Qualified Person (QP). They will undertake to prepare the documents and plans required by the Regulation that will allow the Contractor to choose an appropriate excess soil destination site. In addition, the QP for the Project Leader will review excess soil acceptance authorization

- iii. and transportation records to be provided by the Contractor, and prepare the Final Excess Soil Disposition Report on behalf of the Project Leader;

5. CONSTRUCTION (180.07)

5.1. CONDITIONS FOR ON-SITE AND EXCESS SOIL MANAGEMENT O.REG.406/19 (180.07.08)

- a) Excess materials shall be managed in accordance with On-Site and Excess Soil Management, O.Reg. 406/19 and OPSS 180.MUNI, as supplemented and amended by the following additional requirements.
- b) For greater certainty, all excess materials (including, but not limited to: bituminous pavement; concrete; fabricated metal; plastic products; wood; masonry; pipes; surplus (see 5.1(c)) or unsuitable excavated earth and rock; and other wastes that are not otherwise designated for salvage or Reuse by the Owner) shall be removed from the Project Area and properly transported and re-used or disposed Off-Site in accordance with all applicable legislation at the Contractor's sole expense. More specifically, the Contractor shall comply with the Environmental Protection Act, including Ontario Regulation 347/90 (as amended), and shall use appropriately licensed haulers and receivers for all waste transportation and disposal, as required.
- c) Excess Soil leaving the Project Area is subject to those aspects of O.Reg.406/19 currently in force.

5.2. SAMPLING, TESTING AND ANALYSIS BY QP-PL

- a) Unless otherwise described in the Contract Documents, prior to Tender the QP-PL has completed the following in accordance with O.Reg. 406/19 on behalf of the Town:
 - i. Assessment of Past Uses: The Assessment of Past Uses is intended to identify any potentially contaminating activity within the meaning of Ontario Regulation 153/04 that may affect the Project Area
 - ii. Sampling and Analysis Plan (SAP): The Sampling and Analysis Plan is intended to describe the proposed methodology for sampling and analysis, including sampling locations and the type of analysis to be conducted
 - iii. Soil Characterization Report: The Soil Characterization Report is intended to include:

- The results of sampling and analysis and an assessment of those results, including a description of the parts of the Project Area that were sampled and analyzed;
 - A description of which soil may be Reused within the Project Area, with or without processing at the Project Area, and which soil may be deposited at a Class 1 soil management site, landfilling site or dump;
 - Having regard to the Excess Soil Standards, identification of the type of potential Reuse Sites to which Excess Soil from the Project Area may be transported for final placement Off-Site (i.e. in accordance with "Property Use" types as identified by O. Reg. 153/04, s. 1 (2)).
- b) The Contractor is solely responsible for its own interpretation of assessments and analytical results made available by the Owner.

5.3.CONTRACTOR RESPONSIBILITIES

- a) The Contractor shall review and understand the available environmental data on the Excess Soils to be generated, as provided within the Soil Characterization Report.
- b) The Contractor shall undertake management activities and deliverables in accordance with these specifications.
- c) The Contractor shall be responsible for the On-Site and Off-Site deposit of Excess Soils from the Project Area and will be responsible for executing the requirements of the Reuse Site in relation to import of Excess Soils originating from another site. This shall include all necessary documentation and reporting to support placement of material at the Reuse Site(s) including the identified submittals. The project is presently exempt from posting a notice on the Registry.
- d) All excess soil shall be transported to the Reuse Site(s) to be identified by the Contractor. The QP-PL shall review and accept the proposed Reuse Site(s) in advance of any excavation work. The Contractor shall obtain written consent from the operator/owner of the Off-Site Reuse Site(s) at which the Excess Soils will be deposited prior to the initiation of construction operations. This written consent from the operator/owner shall include:
- i. Acknowledgement of reception of the Soil Characterization Report,

- ii. The proposed intended beneficial reuse of the Excess Soil, and
 - iii. Authorization to deposit the Excess Soil at the Reuse Site.
- e) The Contractor shall be responsible for the design of any required On-Site storage areas, processing equipment and areas, and transportation including Off-Site haulage and deposit of the Excess Soils.
 - f) The Contractor shall submit a plan of any temporary On-Site storage areas for the duration of the project. The plan shall include the erosion and sediment controls.
 - g) The Contractor shall develop and submit a plan for the transportation, disposal and tracking of Excess Soils. The plan shall list all carriers who will haul the soil to the Reuse Site(s) to be identified by the Contractor. The QP-PL shall review the plan and list of carriers in advance of any excavation work. The plan shall also include details to meet the tracking requirements identified under O.Reg. 406/19, which currently can be satisfied by providing a daily summary manifest of excess soil movement (i.e. date, truck number, estimated quantity, time of departure, time of delivery to Reuse Site).
 - h) The Contractor shall comply with the requirements outlined in a Fill Management Plan, should it exist for the Reuse Site, Excess Soil Destination Assessment Report and/or site-specific Instrument of the Reuse Site where Excess Soil will be placed, as applicable.
 - i) The soil hauled Off-Site shall be dry. Otherwise, hauling of liquid soils will be in accordance with provisions in the Soil Rules.
 - j) Unless otherwise designated, the QP-PL shall undertake any required additional sampling and testing of the excavated materials supplemental to the available environmental data and to evaluate the suitability for Reuse either within the Project Area or at an Off-Site Reuse Site.
 - k) Soil treatment will not be permitted within the Project Area unless otherwise noted in the Contract Documents. Should the Contractor elect to treat and Reuse Excess Soils generated from the Project Area Off-Site, the Contractor shall be solely responsible for meeting all Regulatory requirements at the Off-Site facility.

5.4.CONTRACTOR SUBMITTALS

- a) General

- i. The following submittals are to be provided by the Contractor at the Pre-Construction Meeting. The QP-PL will review and comment on the submittals within 10 business days. The Contractor shall not commence excavation activities until the QP-PL has reviewed the submittals and any concerns or required changes have been addressed. Any delays resulting from late, incomplete or inaccurate submittals shall be the sole responsibility of the Contractor and the Region will not entertain any related claims for compensation or for an extension of Working Days.

b) Approach to Excess Soil Management

- i. Contractor to provide a written description of their approach to Excess Soil management for this contract illustrating their understanding of the requirements and how they will be addressed. This document shall include the following:
 - Identification of Proposed Reuse Sites: Contractor to provide a list of the Reuse Site(s), proposed for the project. Identification of additional sites at which soil may be reused in the event that a Reuse site identified cannot be used;
 - Identification of Instruments: Contractor to provide a copy any Instruments (i.e. existing permits or licenses, if any) applicable to the Reuse Site(s) proposed for the project
 - Acceptance criteria for the Reuse Site (if any), including environmental quality and any other material characterization requirements;
 - A copy of the agreement with the Reuse Site for the acceptance of the Excess Soils from the Project Area;

c) Excess Soil Destination Assessment Report (ESDAR)

- i. QP-PL to prepare and approve the ESDAR in accordance with the Soil Rules incorporated into O.Reg. 406/19 including:
 - Identification of the Project Area and each Reuse Site where Reused soil will be deposited;
 - Acceptance criteria for the Reuse Site, including environmental quality and any other material characterization requirements;

- A copy of the agreement with the Reuse Site for the acceptance of the Excess Soils from the site;
- Written consent on from the operator/owner of the Reuse Site accepting the deposit of the Excess Soils from the Project;
- Identification of additional sites at which soil may be Reused in the event that a fill site identified cannot be used;

Provides an estimate on the quality and quantity of soil that was deposited at each location

d) Source Site Documentation for Imported Soil (Only on projects requiring Borrow)

- i. The requirements of O. Reg.406/19 do not apply to imported soil originating from a pit or quarry licensed under the Aggregate Resources Act.
- ii. For any Site not licensed under the Aggregate resources Act from which imported soil will be obtained and brought to the Project Area, the Contractor shall provide from that source the following documentation prepared in accordance with O. Reg.406/19 including:
 - i. Assessment of Past Uses
 - ii. Sampling and Analysis Plan
 - iii. Soil Characterization Report
- iii. Contractor to identify procedures to ensure that each load is accompanied by documentation that includes appropriate and representative soil analysis from the soil at the source site(s) confirming the soil quality is acceptable for the designated Project Area receiving location in accordance with O.Reg.406/19 as well as the fill requirements for the site included in related sections of the Contract Documents.

e) Soil Tracking System

- i. The contractor shall develop, and have the QP-PL approve, a Soil Tracking System to track each load of Excess Soils, its transportation and deposit at an Off-Site Reuse Site or at a disposal site if unsuitable for reuse. The tracking system shall provide:

- The date and time the Excess Soils, were loaded for transportation.
 - The estimated quantity of Excess Soils, in the load.
 - The name of an individual who may be contacted to respond to inquiries regarding the load.
 - The name of the corporation, partnership or firm transporting the Excess Soils, the name of the driver of the vehicle and the number. plates issued for the vehicle under the Highway Traffic Act.
 - The name and location of the Reuse Site.
 - The date and time of arrival of the load to the Reuse Site.
 - The volume of Excess Soils, received.
 - Written consent from the Reuse Site accepting and acknowledging that the incoming Excess Soils are acceptable for receipt at the site, along with the intended beneficial reuse, including the contact information of the person who acknowledged receipt of the load(s).
 - Rejections of any loads of Excess Soils, due to visual inspection or review of analytical results.
 - Documentation to be provided to the QC-PL, once Excess Soils are received, confirming the materials were received and the type, quality and quantity were appropriate.
- ii. A person who is operating a vehicle for the purpose of transporting the Excess Soils, shall provide the tracking information to any provincial officer, upon request.
- iii. The Contractor shall determine the appropriate means of estimating the quantities of Excess Soils loaded, transported and received. Irrespective of the selected method of measurement for tracking, the volume of Excess Soil quantities tracked by the Contractor shall be considered an approximation and shall have no bearing on the final payment quantities. Measurement for payment purposes shall be as

defined in the Measurement for Payment and Basis of Payment sections of this specification.

- vi. Excess Soil Disposition Report on behalf of the Project Leader;

6. MEASUREMENT FOR PAYMENT (180.09)

- a) There is no separate measurement for On-Site and Excess Soil Management Regulation, O. Reg 406/19 and all associated cost of this specification are to be included in the various items that are included in the Schedule of Items and Prices.

END OF SECTION

PART 5 - GRADING (OPSS.MUNI 206 SUPPLEMENTARY SPECIFICATION)

1. GENERAL

- a) The following are amendments and additions to the November 2013 revision.

2. SCOPE (206.01)

- a) This specification also covers excavation and removal of pavement, curb and gutter, sidewalk, signs, subdrains, guiderail, and vegetation.

3. REFERENCES (206.02)

- a) OPSD's listed in Appendix 206-A shall be applicable to this specification.

4. CONSTRUCTION (206.07)

4.1. GENERAL (206.07.01)

- a) Any suitable excavated earth that becomes contaminated due to the Contractor's activity shall be removed and replaced at no extra cost to the Contract.

4.2. EARTH EXCAVATION, GRADING (206.07.03)

4.2.1. PAVEMENT

- a) Pavement shall include asphalt, concrete pavement, and interlocking brick pavement.
- b) Sawcut asphalt pavement from roadways, driveways, boulevards, and sidewalks as shown on the Contract Drawings and as directed by the Town/Town's Representative. All saw cutting of asphalt to be neat straight lines immediately prior to paving.
- c) Remove and dispose of existing asphalt as shown on the Contract Drawings and as directed by the Town/Town's Representative.
- d) Dispose asphalt off site at a location approved by the Town's Representative.

4.2.2. CONCRETE CURB AND GUTTER

- a) Sawcut concrete curb as shown on the Contract Drawings and as directed by the Town/Town's Representative.

- b) Remove and dispose of existing concrete curb and gutter to the limits shown on the Contract Drawings.

4.2.3.SIDEWALK

- a) Sidewalk shall include concrete, asphalt, and interlocking brick.
- b) Sawcut concrete sidewalk as shown on the Contract Drawings and as directed by the Town/Town's Representative.
- c) Remove and dispose of existing sidewalk to the limits shown on the Contract Drawings.

4.2.4.SIGNS

- a) Remove and relocate all signs within the limits of construction and grading, as indicated on the removal drawings (but not limited to the signs indicated). All regulatory signs (stop signs, speed limit signs, etc.) must be maintained at all times either by permanent or temporary post.

4.2.5.SUBDRAINS

- a) Remove and dispose of existing subdrain to the limits shown on the Contract Drawings.

4.2.6.GUIDERAIL

- a) Remove and dispose of existing guiderail to the limits shown on the Contract Drawings.

4.2.7.VEGETATION

- a) Remove and dispose of existing vegetation to the limits shown on the Contract Drawings.
- b) Vegetation removal shall include clearing, grubbing, and stripping of topsoil.

4.3. ROCK EXCAVATION, GRADING - GENERAL (206.07.05.01)

- a) This item shall include any rock removed to install retaining walls (including foundation), interlocking brick stops, handrails etc.
- b) Granular B Type I shall be used to fill any void left by the removal of rock below subgrade.

- c) Where explosive methods cannot be used for rock excavation, non-explosive methods shall be used and shall be according to NBSS 403.

4.4. MANAGEMENT OF EXCESS MATERIAL (206.07.10)

- a) Management of excess material shall be according to OPSS 180.

5. MEASUREMENT FOR PAYMENT (206.09)

- a) Measurement for payment shall be actual measurement.

5.2. ACTUAL MEASUREMENT (206.09.01)

5.2.1. EARTH EXCAVATION, GRADING (206.09.01.01)

- a) Measurement for earth excavation, grading, shall be by area in square metres measured in its original position.

5.2.2. OVERBUILDING, EARTH (206.09.01.01)

- a) Not used.

5.2.3. EXCAVATION FOR PAVEMENT WIDENING (206.09.01.02)

- a) Not used.

5.2.4. ROCK EXCAVATION, GRADING (206.09.03)

- a) Where the excavation for this item overlaps rock excavation for trenches and associated structures, the overlapped area shall only be paid once. If rock excavation is within the plan view area of the trench rock pay limits, it shall only be paid under the trench rock item. If rock excavation is outside of the plan view area of the trench rock limits, it shall only be paid under the other applicable rock excavation items.

5.2.5. OVERBUILDING, ROCK (206.09.03.02)

- a) Not used.

6. BASIS OF PAYMENT (206.10)

6.1. EXCAVATION FOR PAVEMENT WIDENING - ITEM (206.10.02)

- a) Not used.

6.2. ROCK EXCAVATION, GRADING - ITEM (206.10.03)

- a) "Rock Excavation, Grading - Item" shall be replaced with "Rock Excavation, Grading by Explosive Methods - Item"

6.3. ROCK EXCAVATION BY NON-EXPLOSIVE METHODS - ITEM

- a) Rock Excavation by Non-Explosive Methods - Item shall be according to NBSS 403.

END OF SECTION

PART 6 - ROAD AND MISCELLANEOUS ITEMS

1. ROAD

1.1. GRANULARS

1.1.1. GRANULAR A

- a) Work to be in accordance with OPSS 314.
- b) Supply, place, and fine grade;
- c) Granular A used outside of pay limits indicated shall be included in other items as listed in the form of tender.
- d) The Contractor shall identify source of Granular material for sampling by the geotechnical consultant ten (10) working days prior to placement. The Contractor must arrange a representative and suitable equipment (i.e. loader) to be on site during sampling by the geotechnical consultant. If source material fails gradation the Contractor shall be responsible for the cost of all further testing by the geotechnical consultant;
- e) Granular 'A' that becomes contaminated due to Contractor's activity, shall be removed and replaced at no extra cost to the Contract;
- f) No additional payment will be made for the supply of water required for compaction.
- g) Measurement for payment shall be actual measurement and the unit of measurement is square meters.
- h) Payment at the Contract unit prices shall full compensation for all labour, equipment and material to do the work.

1.1.2. GRANULAR B

- a) Work to be in accordance with OPSS 314.
- b) Supply, place, and fine grade.
- c) The Contractor shall identify source of granular material for sampling by the geotechnical consultant ten (10) days prior to placement. The Contractor must arrange a representative and suitable equipment (i.e. loader) to be on site during sampling by the soils consultant. If source

material fails gradation the Contractor shall be responsible for the cost of all further testing by the soils consultant.

- d) Granular B that becomes contaminated due to Contractor's activity shall be removed and replaced at no extra cost to the Contract.
- e) No additional payment will be made for the supply of water required for compaction.
- f) Measurement for payment will be actual quantity measurement and the unit of measurement is square meters.
- g) Payment at the Contract unit prices shall be full compensation for all labour, equipment and material to do the work.

1.1.3.GRANULAR DRIVEWAYS

- a) Work to be in accordance with OPSS 314.
- b) Exact location where to match existing granular driveways shall be determined by the Town/Town's Representative. The match location will determine actual pay limits.
- c) Material shall be granular A and the minimum depth as per the detail on the drawings.
- d) Measurement for payment will be actual quantity measurement and the unit of measurement is square meters.
- e) Payment at the Contract unit prices shall be full compensation for all labour, equipment and material to do the work.

1.2.CONCRETE

1.2.1.CONCRETE CURB AND GUTTER

- a) Work to be in accordance with OPSS 353.
- b) Supply and place concrete curb and gutter including formwork, curing, saw-cutting and driveway cuts, complete.
- c) Curb and gutter shall be constructed using extrusion methods (machine laid).
- d) Concrete shall be MTO mix 35 MPa compressive strength at 28 days.

- e) Match to existing curb and gutter systems on side streets, including all forms and handwork.
- f) Curb termination (OPSD 608.01) on all side streets shall be provided where there is no existing curb and gutter.
- g) Yellow "CAUTION" tape shall be placed at a height of 1.0 m along the length of freshly poured curb immediately following the first application of curing compound.
- h) Openings shall also be allowed in "CAUTION" tape for pedestrians to step over curb. These areas shall be planked safely to allow for pedestrian crossover.
- i) Curb going across entrances shall be protected by barricades for minimum of 24 hours after initial set.
- j) 1st application of curing compound shall be applied immediately after finishing to all exposed surfaces within 10 m of operation. 2nd application should commence ½ hour after the first application.
- k) When formwork is removed before 72 hours, exposed faces shall be sprayed with curing compound.
- l) Provide expansion joints between existing and new concrete curb and gutters and on either side of catch basins.
- m) Measurement for payment shall be actual measurement, and the unit of measurement is metres.
- n) Payment at the Contract unit prices shall be full compensation for all labour, equipment and material to do the work.

1.2.2. CONCRETE DRIVEWAYS

- a) Work to be in accordance with OPSS 350.
- b) Exact location where to match existing concrete driveway shall be determined by the Town/Town's Representative. The match location will determine actual pay limits.
- c) See detail drawings for minimum concrete thickness and granular base.
- d) Measurement for payment shall be actual measurement and the unit of measurement is square metres.

- e) Payment at the Contract unit prices shall be full compensation for all labour, equipment and material to do the work.

1.3. PAVEMENT MARKINGS

1.3.1. PERMANENT AND TEMPORARY PAVEMENT MARKINGS

- a) Work to be in accordance with OPSS 710, 1712, 1713 and 1714 and the Ontario Traffic Manual.
- b) Supply and install the permanent markings as shown on the drawings. Work to also include the removal of existing pavement markings as required and as directed by the Town/Town's Representative, using abrasive methods.
- c) Permanent marking materials for dividing, lane and edge lines to be organic solvent based or water-borne traffic paint complete with glass beads. All paint applications to new asphalt to require 2 applications of paint. The second application shall not be applied until the first is track free.
- d) Permanent marking materials for stop bars, direction arrows and crosswalks are to be durable hot applied thermoplastic pavement marking material, as per OPSS 1713, or field reacted polymeric pavement marking material, as per OPSS 1714.
- e) Pavement markings shall only be applied immediately after top course paving (permanent) and bottom course paving (temporary) upon the authorization of the Town/Town's Representative provided that the temperature is above 10 degrees Celsius and the pavement is perfectly dry.
- f) Layout of all stop bars, direction arrows and crosswalks shall be approved by the Town/Town's Representative.
- g) Temporary markings shall duplicate the permanent marking design with temporary pavement marking material.
- h) Samples of material shall be provided one month prior to placement of the permanent marking work.
- i) The Contractor shall ensure fresh pavement markings are not tracked or smeared by motorists. It shall be the Contractor's responsibility to

correct any severe tracking situation, which was created as a direct result of poor traffic control operations by the Contractor.

- j) Measurement for payment shall be actual measurement and the unit of measurement is linear metres for lines and each for stop bars and direction arrows.
- k) Payment at the Contract unit prices will be full compensation for all labour, equipment and material to do the work. There will be no additional payment for removal of existing pavement markings.

1.4. TOPSOIL AND NURSERY SOD OR SEED

- a) Work to be in accordance with OPSS 802, 803, and 804.
- b) Fine grade subgrade.
- c) Topsoil:
 - i. Screen native topsoil to remove all roots, sticks and stones.
 - ii. Supply and place minimum compacted depth of 100 mm of imported screened topsoil.
 - iii. If the grade is low in the area of placing topsoil and sod, and the amount of topsoil will exceed the minimum 100 mm thickness, the Contractors shall place either select fill in these low points or fill with topsoil up to subgrade elevation. At no point shall the topsoil be less than 100 mm. There will be no further compensation for placing topsoil over 100 mm thick.
 - iv. All topsoil placed during the Contract that becomes contaminated due to the Contractor's activities shall be removed and replaced at no extra cost to the Contract.
- d) Sod:
 - i. Supply and place no. 1 nursery sod, staked on slopes of 3:1 or greater.
 - ii. Maintain and water during rooting stage of sod areas through first two cuttings of sod (minimum one month) and on an as required basis after that time until sod has taken.
 - iii. Cut sod twice following rooting (minimum time between cutting: 1 week).

- iv. Replace sod areas that do not root.
- e) Seed:
 - i. The permanent seed mix shall be "Standard Roadside Mix"
- f) Measurement for payment shall be actual measurement and the unit of measurement is square metres.
- g) Payment at the Contract prices shall be full compensation for all labour, equipment and material to do the work.

2. RESTORATION

- a) In accordance with OPSS 492.
- b) In general, the entire site shall be restored to a state equal to or better than existing conditions.
- c) Restoration shall not be undertaken as a final project task but shall be initiated as soon as backfilling and compaction activities have been completed.
- d) Temporary roads shall be removed as soon as construction activities can permit and the vegetative cover shall be restored to its original condition by replanting or natural cover all as specified herein or indicated on the Drawings.

3. UTILITIES

3.1. PROTECTION OF UTILITY LINES

- a) The Contractor shall include in the Contract bid price for the various tender items all costs deemed necessary by the Utility authorities to provide all protective measures within the limits of the Contract. The Contractor shall remain responsible for any unauthorized disruptions of service and any damage to utilities arising out of the Contractor's work, notwithstanding such protection. The Utility authorities will carry out all the work of temporary rearranging and shielding of lines deemed necessary. The cost of all such protective measures, together with the cost of restoring the lines to their original state and location, will be at the expense of the Contractor, and will be billed to the Contractor by the Utility authority.
- b) Whenever, in the opinion of the Utility authority, standby crews are necessary during blasting operations, the Contractor shall make the necessary arrangements with the Utility authority and the cost of such crews and

equipment shall be billed to the Contractor by the Utility authority. These measures will apply to those utilities located within all blasting areas.

- c) The Contractor shall notify in writing the appropriate Utility Companies of construction commencement, with a copy submitted to the Town/Town's Representative within 3 business days of being granted permission to start work.
- d) The Contractor shall notify the appropriate Utility Companies one week in advance of any rock blasting, with a copy submitted to the Town/Town's Representative within 3 business days.

3.2. WORK NEAR/UNDER GAS PIPELINES

3.2.1. SUPPORT OF GAS PIPELINES

3.2.1.1. GENERAL

- a) This section applies to all excavations of gas company underground plant. Gas pipelines shall be supported at all times to prevent damage to the pipeline from deflection due to its own weight plus any other load that may be imposed on it. Contractor shall review and conform to Union Gas specifications and support details found attached to the end of these Specifications.

3.2.1.2. TEMPORARY SUPPORT

- a) A suitable method of supporting gas pipelines shall be used when an excavation will result in unsupported pipe spans exceeding the maximum spans. Drawings attached to these Contract Documents provide suggested temporary support designs, however, other methods of providing suitable support may be used. Temporary support shall remain in place until permanent support is provided and shall be inspected at least every three weeks by personnel from the gas company.

3.2.1.2. PERMANENT SUPPORT

- a) Permanent support of a gas pipeline shall be provided by either a properly compacted backfill method or a structural method. A properly compacted backfill method is preferred.
- b) Where proper support cannot be provided with backfill material, permanent structural supports shall be installed. The appropriate gas

authority shall provide some typical designs. Where these designs are not suitable, the Engineer shall be consulted for a custom design.

3.2.2.BLASTING CLOSE TO GAS PIPELINES

- a) This section applies to all blasting near Gas Company underground plants. Where blasting is required near gas pipelines, the Contractor shall review and conform to Gas Company specifications as attached to the end of these specifications. Contractor shall follow the blasting information request as specified in the specifications attached to the end of these specifications.
- b) Where conventional blasting is not able to be permitted due to exceeding the maximum peak provincial velocity, as measured at the pipeline then alternative forms of rock blasting will be required.
- c) This specification shall be read in conjunction with the Rock Excavation specifications found in these Standard Specifications.
- d) The Contractor shall provide a portable seismograph and locate the device on the surface directly over the gas main during blasting operations which is within 30 m of gas main. All seismograph results should be recorded on the form and the printout attached for reference. The completed forms are to be given to the Town/Town's Representative.
- e) The Contractor shall arrange to have a Gas utility inspector on site during blasting operations within 30 m of a gas main. Union Gas requires a minimum of 48 hours notice to arrange to have an inspector on site.
- f) No blasting will be permitted within 3 m of live gas mains on this project. Rock excavation within 3 m of gas mains if required shall be carried out using a non-blasting technique. The cost for any such work shall be paid for by the unit price indicated in the Form of Tender.

3.2.3.BACKFILLING EXPOSED GAS MAINS

- a) All exposed gas main must be bedded and covered with sand compacted to the satisfaction of the Engineer prior to completing backfilling of trench.

3.2.2.WRAPPING

- a) All exposed gas main will be inspected by the gas company's representative and may be wrapped as required. Contractor must adjust operations to suit the wrapping by the gas company.

4. ENVIRONMENTAL

4.1. GENERAL

- a) It is a responsibility of the Contractor that all Contractor personnel be sufficiently instructed so that the work is carried out in a manner consistent with minimizing environmental impact.
- b) The Contractor shall prepare and submit an erosion and sediment control plan to the Town/Town's Representative before commencement of the works

4.2. NOISE CONSTRAINTS

- a) All construction activities must conform with any local noise control bylaw and all its amendments.
- b) Air compressors, gas diesel driven engines, pavement breakers shall be equipped with efficient mufflers.
- c) The Contractor shall establish and maintain site procedures consistent with the objective that noise levels from the construction area shall be minimized.
- d) In areas where some permanent installations, such as tunnel shafts, are required other devices such as artificial barriers, berms, etc. shall be used to minimize noise levels.

4.3. IDENTIFICATION OF LOCAL MECP OFFICE

- a) Notification to the Ministry of the Environment and Climate Change (MOECC) that is required elsewhere in the Contract shall be provided to the Town's Representative.

4.4. REFUELLING

- a) Refuelling and maintenance of equipment shall not be undertaken in or adjacent to the watercourses. On-site storage and refuelling locations of fuel must be approved by the Town/Town's Representative. Procedures for the interception and rapid clean-up and disposal of spillages that occur shall follow requirements set forward in the occupational Health and Safety Act and be submitted to the Town/Town's Representative for review prior to starting work. All materials required for cleanup of fuel spillages shall be maintained readily accessible on site.

4.5. CLEARING OF VEGETATION

- a) Particular attention shall be given to any natural wildlife habitats located within the working areas. The Town/Town's Representative shall designate on the Drawings and shall identify in the field those natural environmental features to be preserved. If deemed necessary by the Town/Town's Representative, the Contractor shall erect, maintain, and remove protective fencing in order to protect these areas.
- b) Vegetative cover shall be removed only slightly in advance of actual construction. Clearing and grubbing shall be performed in accordance with OPSS.

4.6. SENSITIVE AREAS, STREAM CROSSINGS AND CHANNEL DIVERSIONS

- a) Stream crossings and diversion activities shall be performed in accordance with any required local or provincial permits.

4.7. PROTECTION OF TREES

- a) The Contractor shall be responsible for the protection of trees within the project site that are identified to remain. Existing trees subject to construction damage shall be fenced before any work is started. Wherever possible, do not permit heavy equipment or stockpiles within tree drip line. Remove interfering branches without injury to trunks and cover scars immediately with tree paint such as "Sturgeon's Tree Wound Dressing".
- b) Where excavating, filling, or grading is required within the drip line of trees that are to remain, the work shall be performed as follows:
 - i. Trenching - When trenching occurs around trees to remain, the tree roots shall not be cut but the trench shall be tunneled under or around the roots by careful hand digging and without injury to the roots. Any roots over 25 mm which are damaged, shall be treated immediately with tree paint.
 - ii. Raising Grades - When the existing grade at tree is below the new finished grade, and fill not exceeding 400mm is required, clean washed gravel graded from 25 mm to 50 mm size shall be placed directly around the tree trunk. The gravel shall extend out from the trunk on all sides a minimum of 450 mm and finish approximately 50 mm above the finished grade at tree. Install gravel before any earth fill is placed. New

earth fill shall not be left in contact with the trunks of any trees requiring fill.

iii. Lowering Grades - Trees marked for preservation that are located above proposed grades shall stand on broad rounded mounds and be graded smoothly into the lower level. Exposed or broken roots shall be cut clean and covered with topsoil.

c) Trees potentially undermined by trench construction shall be braced to unaffected trees by means of cables and turnbuckles, for the period of open trench construction.

4.8. CLEANING EQUIPMENT

- a) Do not clean equipment in streams or lakes.
- b) Clean construction equipment prior to entering roadways.
- c) Do not clean equipment in locations where debris can gain access to sewers or watercourses.

4.9. SPILLS

- a) Report immediately any spills causing damage to environment to the Spills Action Centre, Telephone 1-800-268-6060.

4.10. DISPOSAL

- a) Do not empty fuel, lubricants, or pesticides into sewers or watercourses.
- b) Dispose of all construction debris in an approved location.

4.11. EROSION CONTROL MEASURES

- a) The Contractor shall prepare an Erosion and Sediment Control plan and shall submit the plan to the Town/Town's Representative.
- b) Removal of vegetation from sloped approaches to watercourses to be kept to a minimum.
- c) Excavate and stabilize temporary channel beds prior to any diversion of flow.
- d) Compact, stabilize and rip-rap banks and river beds that have been disturbed or damaged during construction.
- e) Provide splash pads where water is discharged into watercourses.

4.12. WORKPLACE HAZARDOUS MATERIAL INFORMATION SYSTEM (WHMIS)

- a) Prior to the commencement of work the Contractor shall provide, to the Engineer, a list of those products controlled under WHMIS which the Contractor expects to use on the contract. Related Material Safety Data Sheets shall accompany the submission. All containers used in the application of products controlled under WHMIS shall be labeled. The Contractor shall notify the Town/Town's Representative of changes to the list in writing and provide relevant Material Safety Data Sheets.

5. MISCELLANEOUS ITEMS

5.1. REMOVE, SALVAGE, AND RELOCATE EXISTING FENCE (ALL TYPES)

- a) The unit price tendered for this item shall include the following:
 - b) Salvage existing material from fence to be relocated.
 - c) Storage of salvaged material until relocation is possible.
 - d) Purchasing and installation of new material as required to complete fence in relocated area.
 - e) Concrete footings for all posts to industry standards.
 - f) Removal of existing fence that is now within proposed right of way, but will not be completely replaced or relocated. Addition of new end post due to location of roadside sidewalk as directed by the Town/Town's Representative.
 - g) A relocated fence must be replaced using existing fence pattern and materials.

5.1.1. PAYMENT

- b) Payment for this item will be made upon completion of all relocated fence, and will be measured along its length of relocation. Where a fence is removed and requires only a new end post, the length of fence removed will be used to pay for this work.

5.2. NON-SHRINK BACKFILL BELOW EXISTING UTILITIES

- a) Measurement for this item will be along the exposed utility crossing the proposed trench. The unshrinkable fill will be used to backfill the trench under

the utility. Normal backfilling will commence once the utility pipe is supported. Utilities under 75 mm in diameter will not be backfilled with unshrinkable fill. Unshrinkable fill shall be as per OPSS 1359.

5.3. VIBRATION MONITORING DURING ROCK EXCAVATION BY NON-EXPLOSIVE METHODS AND COMPACTION OPERATIONS

- a) The unit price tendered for this item shall include the following:
- b) Vibration monitors shall be the same monitors as used for rock blasting.
- c) Monitoring locations shall be determined in cooperation with the Town/Town's Representative by choosing a representative group of buildings (approximately 15%) within a block, with an over distribution of sites on either side of the road. Each of these chosen buildings shall have an inspection and video report completed by an approved company (similar or same as blast monitoring company, but cannot be the same company as the driller/blaster or General Contractor).
- d) Monitors sensing devices shall be temporarily attached to building foundations either inside or outside to obtain any vibration. Once the monitoring has been completed all monitoring locations will be restored to existing or better condition.
- e) Monitors shall be used continuously during mechanical rock removal operations and during compaction of the road subgrade, 'B' gravel base, 'A' gravel base, and during all paving operations.
- f) Contractor to keep daily records of monitoring vibrations and shall notify the Town/Town's Representative if vibrations exceed the allowable peak particle velocity of 50 mm/second. Upon exceeding this limit, the Contractor with consultation with the Town/Town's Representative will adjust mechanical rock removal and compaction methods and/or equipment at no extra cost to the Contract.

5.4. GEOTECHNICAL ALLOWANCE

- a) The Town/Town's Representative will make arrangements for a geotechnical consultant to perform all required testing for this project and will determine when geotechnical testing will be required throughout the project.
- b) All associated geotechnical costs will be invoiced directly to the Owner from the geotechnical consultant.

- c) Where tests or inspections by the designated geotechnical consultant reveal work not in accordance with the Contract requirements, the Contractor shall pay all costs for additional tests and inspections, as the Town/Town's Representative may require to verify acceptance of corrected work.
- d) The Contractor shall provide sufficient access (as determined by the geotechnical consultant) to the work area to be inspected and tested. All areas will be made safe as required by the Health and Safety Act prior to any testing by the geotechnical consultant's personnel.
- e) The Contractor shall provide sufficient notification to the Town/Town's Representative and geotechnical consultant in advance of operations for scheduling tests, inspections, and personnel.
- f) The Contractor shall deliver or send as required, representative samples in the required quantities to the appropriate test lab (ie. Granular 'A', Granular 'B' Type II, etc.).

END OF SECTION

PART 7 - CONCRETE SIDEWALK (OPSS 351 SUPPLEMENTARY SPECIFICATION)

1. GENERAL

- a) The following are amendments that delete and/or add specific instructions to OPSS 351, November 2015 revision

2. MATERIALS (351.05)

2.1. CONCRETE (351.05.01)

- a) All concrete shall be 35 MPa (MTO mix).

2.2. GRANULAR (351.05.04)

- a) Granular A base shall be according to OPSS 1010.

2.3. TACTILE WALKING SURFACE INDICATOR PLATES (351.05.06)

- a) Tactile Plates shall be from the following manufacture, or an approved equivalent.
 - i. Detachable Warning Plates by Neenah Enterprises Inc. (NEI).
 - ii. Duralast Detachable Warning Plates by EJ.
 - iii. Tuftile Cast Iron by Tuf-Tite Inc.

3. CONSTRUCTION (351.07)

3.1. GENERAL (351.07.01)

- a) Concrete sidewalk shall be constructed at the locations as specified on the contract Drawings and to a minimum thickness of 150 mm.
- b) All concrete sidewalk shall have a 150 mm thick Granular A base.

3.2. COMPACTION (351.07.03)

- a) Compaction shall be according to OPSS 501 and NBSS 501.

3.3. FORM SETTING (351.07.05)

- a) Once removed, any wood used for formwork shall have any or all nails removed immediately from wood and properly disposed.

3.4. TACTILE WALKING SURFACE INDICATOR PLATES (351.07.09)

- a) A Minimum of two cast iron tactile walking surface indicators shall be set into wet concrete.

3.5. CONCRETE FINISHING (351.07.10)

- a) No refinishing of sidewalk once initial set or curing compound applied.

3.6. CONCRETE CURING (351.07.13)

- a) When formwork is removed before 24 hours, exposed sides shall be sprayed with curing compound.
- b) The first application of curing compound shall be applied immediately after finishing within 10 m of operation. The second application shall occur a half hour after the first application.

3.7. PROTECTION OF SIDEWALKS (351.07.15)

- a) Yellow "CAUTION" tape shall be placed at a height of 1.0 m along the length of freshly poured sidewalk immediately following the first application of curing compound.
- b) Openings shall also be allowed in the "CAUTION" tape for pedestrians to step across sidewalk. These areas shall be planked safely to allow for pedestrian to crossover into their residences or places of business.
- c) Sidewalk going across entrances shall be protected by barricades for a minimum of 24 hours after initial set.

4. MEASUREMENT FOR PAYMENT (351.09)

4.1. CONCRETE SIDEWALK (351.09.01.01)

- a) All steps with 3 risers or less, payment will be made by measurement of the tread surface area. Riser will not be measured.

END OF SECTION

PART 8 - TRENCHING, BACKFILLING, AND COMPACTING (OPSS 104 SUPPLEMENTARY SPECIFICATION)

1. GENERAL

- a) The following are amendments and additions to the November 2013 revision.

2. REFERENCES (401.02)

- a) OPSD's listed in Appendix 401-A shall be applicable to this specification.

3. MATERIALS (401.05)

3.1. EMBEDMENT MATERIAL (401.05.01)

- a) Embedment Material shall be Granular A.

3.2. BEDDING MATERIAL (401.05.02)

- a) Bedding Material shall be Granular A.

3.3. COVER MATERIAL (401.05.03)

- a) Cover Material shall be Granular B Type I with 100% passing the 26.5 mm sieve.

3.4. BACKFILL MATERIAL - GENERAL (401.05.05)

- a) Backfill Material shall be Native Material. If Native Material is deemed unacceptable by the Town/Town's Representative, Imported Material shall be used as directed by the Town/Town's Representative.

4. CONSTRUCTION (401.07)

4.1. BACKFILLING AND COMPACTING - BEDDING (401.07.10.03)

- a) Pipe bedding shall be Class B Bedding.

4.2. UNSTABLE TRENCH FOUNDATION TREATMENT - TRENCHING (401.07.09)

- a) Where the bottom of the trench appears to give an unsuitable foundation, the Town/Town's Representative may give direction to implement unstable trench foundation treatment.

- b) Supply, place, and compact 19 mm clear stone wrapped in Terrafix 270R filter cloth (or approved equal) with 500 mm overlap. All ends shall be closed off (tied).
- c) Top of unstable trench foundation shall be located at the bottom of the required bedding elevation.

4.3. MANAGEMENT OF EXCESS MATERIAL (410.07.13)

- a) Management of excess material shall be according to OPSS 180.

5. MEASUREMENT FOR PAYMENT (401.09)

5.1. UNSTABLE TRENCH FOUNDATION TREATMENT

- a) Measurement of Unstable Trench Foundation Treatment shall be by length in metres along the horizontal centreline length of the trench where the treatment was implemented.

6. BASIS OF PAYMENT (401.10)

6.1. UNSTABLE TRENCH FOUNDATION TREATMENT

- a) Payment at the Contract price for the above tender item shall be full compensation for all labour, Equipment, and Material to do the work.

END OF SECTION

PART 9 - PIPE SUBDRAINS (OPSS 405 SUPPLEMENTARY SPECIFICATION)

1. GENERAL

- a) The following are amendments and additions to the November 2008 revision.

2. REFERENCES (405.02)

- a) OPSD's listed in Appendix 405-A shall be applicable to this specification.

3. MATERIALS (405.05)

3.1. GENERAL (405.05.01)

- a) Subdrain pipe, outlet pipe, and outlets shall not be corrugated steel pipe.

3.2. GRANULAR (405.05.07)

- a) Bedding and Embedment Material shall be Granular B Type 1.

3.3. BACKFILL MATERIAL

- a) Backfill Material shall be Native Material. If Native Material is deemed unacceptable by the Town/Town's Representative, Imported Material shall be used as directed by the Town/Town's Representative.

4. CONSTRUCTION (405.07)

4.1. LAYING SUBDRAIN AND OUTLET PIPE - GENERAL (405.07.06.01)

- a) New subdrain shall be connected to any side street subdrain found at all construction limits.
- b) Where existing subdrain is not located on side streets, the subdrain shall be capped.

4.2. CONNECTION TO DRAINAGE STRUCTURES (405.07.06.03)

- a) Subdrain and outlet pipe connections to concrete maintenance holes, catchbasins, and ditch inlets shall be according to NBSS 407.

4.3. MANAGEMENT OF EXCESS MATERIAL (405.07.09)

- a) Management of excess material shall be according to OPSS 180.

END OF SECTION

PART 10 - COMPACTING (OPSS.MUNI 501 SUPPLEMENTARY SPECIFICATION)

1. GENERAL

- a) The following are amendments and additions to the November 2014 revision.

2. REFERENCES (501.02)

- a) OPSD's listed in Appendix 501-A shall be applicable to this specification.

3. CONSTRUCTION (501.07)

3.1. QUALITY CONTROL (501.07.04)

- a) Method A (501.07.04.02) shall be used for quality control.

3.2. MANAGEMENT OF EXCESS MATERIAL (501.07.05)

- a) Management of excess material shall be according to OPSS 180.

4. QUALITY ASSURANCE (501.08)

- a) Method A (501.08.02) shall be used for quality assurance.

4.2. METHOD A (501.08.02)

- a) Granular materials shall be compacted to a density of 100% of the Standard Proctor Maximum Dry Density (SPMDD) and all earth materials shall be compacted to a density of 95% of the SPMDD.

5. BASIS OF PAYMENT (501.10)

5.1. WATER FOR COMPACTION - ITEM

- a) Not used.

END OF SECTION