



**TOWN OF LUNENBURG
RFP #TOL2025008**

REQUEST FOR PROPOSALS
Civic Square Bandstand Rehabilitation

Non-Mandatory site visit: May 8, 2025 – 10:00am

Proposals will be received no later than:
2:00 p.m. LOCAL TIME
May 16, 2025

Addressed to:
Curtis Bell
Procurement Coordinator
Town of Lunenburg
119 Cumberland Street
Lunenburg, NS B0J 2C0



Engineers

Town of Lunenburg

**TOL2025008 Civic Square
Bandstand Rehabilitation**

125 Cumberland Street

**BID DOCUMENTS, TECHNICAL
SPECIFICATIONS, AND DRAWINGS FOR
OWNER REVIEW**

Prepared for:

Town of Lunenburg

119 Cumberland Street P.O. Box 129

Lunenburg, NS B0J 2C0

Prepared by:

Read Jones Christoffersen Ltd.

1701 Hollis Street

Halifax, Nova Scotia B3J 3M8

RJC No. TOR.140136.0001

April 2025 - Issued for Tender

Division 00 - Procurement and Contracting Requirements

00 01 15	List of Drawings	1
00 20 00	Overview	1
00 21 00	Instructions to Bidders.....	10
00 41 00	Bid Form.....	9
00 53 43	Example Form of Agreement.....	6
00 73 00	Supplementary Conditions	13

SUPPLEMENTARY SPECIFICATIONS

Division 01 – General Requirements

01 10 01	General Requirements.....	12
----------	---------------------------	----

Division 02 – Existing Conditions

02 41 13	Selective Demolition.....	4
----------	---------------------------	---

Division 05 - Metals

05 10 00	Structural Steel.....	8
05 50 00	Metal Fabrications	7

Division 06 – Woods, Plastics, and Composites

06 10 00	Rough Carpentry.....	5
06 15 00	Wood Decking.....	3

Division 09 – Finishes

09 91 14	Structural Steel Repainting.....	12
09 91 19	General Painting	4

Division 26 – Electrical

26 01 00	General Electrical Requirements.....	4
----------	--------------------------------------	---

1.0 Drawings

The drawings listed below are included in the General Contractor/Owner agreement and are part of the contract.

Drawing No.	Drawing Title	Date
	Cover Page and General Notes	April 21, 2025
S1.1	Bandstand Existing Conditions and Demolition Plan and Elevation	April 21, 2025
S2.1	Bandstand Rehabilitation Plan and Elevation	April 21, 2025
S3.1	Sections and Details	April 21, 2025
S3.2	Bandstand New Ramp Plan and Elevation	April 21, 2025

END OF SECTION

1.0 Overview

In accordance with the Town of Lunenburg's procurement practices, this document package shall be considered supplementary to:

The 2024 Standard Specification for Municipal Services, issued by the *Joint Committee on Contract Documents (JCCD)* in association with the *Nova Scotia Road Builders Association (NSRBA)* and the *Consulting Engineers of Nova Scotia (CENS)*.

Copies of The Standard Specifications are available from the JCCD located at:

18 Laurier Street
Dartmouth, NS B3A 2G7
P: (902) 233-9362
E: nsmunicipalservices@gmail.com

END OF SECTION

1.0 Instructions

- .1 Before submitting a bid, Bidders shall:
 - .1 Examine and read the Bid Documents thoroughly.
 - .2 Examine the site and ascertain the extent and nature of all conditions, limitations, or building regulations affecting the performance of the Work. The site is open and available for review by the Bidders during normal business hours. Coordinate site access through the Consultant.
 - .3 Confirm all utility services in the vicinity of the Work that will require protection and maintenance during the course of the Work.
 - .4 Consider the effect of regulatory requirements applicable to the Work.
 - .5 Study and correlate Bidder's observations with the Bid Documents. All dimensions are to be confirmed by on-site measurement by the Bidder.
 - .6 Immediately notify Consultant of all perceived omissions and discovered conflicts, errors, and discrepancies in the Bid Documents.
 - .7 Be satisfied that Bidder understands the Bid Documents and is competent to undertake and complete the Work.
- .2 Bid shall include cost of all permits required (including the building permit), royalties, freight, government duties, and taxes where applicable.
- .3 The Owner reserves the right to add or delete items to be performed under this Contract before and after the Contract is awarded without any penalty. Revisions to the Contract Price resulting from these deletions are to be solely based on the unit prices (or lump sum prices) quoted by the Bidder for those items.
- .4 The Bidder shall not engage in collusion of any sort and, in particular, shall ensure that no person or other legal entity other than the Bidder has an interest in the Bidder's bid. The bidder shall prepare the bid without any knowledge of, comparison of figures with, or arrangement with any other person or firm preparing a bid for the same work.

- .5 It is the Bidder's responsibility to provide all labour, material, equipment and supervision to complete the repairs outlined in these Bid Documents taking into account all site conditions, schedule and noise restrictions, work area restrictions, protection requirements, accessibility restrictions, etc. No extras will be entertained for inconveniences after award of the Contract.
- .6 If the Bidder is a joint venture, each party to the venture must execute the bid under seal in the manner appropriate to such party.

2.0 Site

- .1 The Work is to be performed at 125 Cumberland Street in Lunenburg, Nova Scotia.

3.0 Contract Form

- .1 The Form of Agreement between the accepted Bidder and Owner is attached for information purposes only until execution of the Contract, as amended by Section 00 73 00 – Supplementary Conditions.

4.0 Owner

- .1 Owner: **Town of Lunenburg**
119 Cumberland Street P.O. Box 129
Lunenburg, NS B0J 2C0
- .2 Owner's Representative: Curtis Bell
Procurement Officer
Telephone: (902) 634-4410 x227
Email: purchasing@townoflunenburg.ca

5.0 Consultant

- .1 Consultant: Read Jones Christoffersen Ltd.
- .2 Consultant's Representative: Leigh Besanger, P.Eng.
Telephone: (902) 240-4576
Email: lbesanger@rjc.ca

6.0 Bid Meeting

- .1 A non-mandatory bid meeting will be held on site on at the **date and time indicated on the Town of Lunenburg cover page** for the benefit of all bidders. Please assemble on the asphalt pathway west of the bandstand.

7.0 Examination of Site

- .1 The onus shall be on the Bidders to investigate the project site and inform themselves before bidding of all physical and labour conditions and administrative practices prevailing at the project site.
- .2 The Bidder shall not claim at any time after the submission of their bid any misunderstanding of the terms and conditions of the Contract relating to the site conditions.
- .3 The Bidder shall make allowances as required for the installation of temporary exhaust, heating, and ventilators into and out of the work area. No extra for this item will be entertained after bids have closed.

8.0 Bid Submission

- .1 Completed Bid Forms with the required bid bond, consents of surety to provide project bonding, and all supplementary bid submission material shall be delivered in hard copy (1) to the Lunenburg Town Office no later than the **date and time indicated on the Town of Lunenburg cover page** and addressed as follows:

Confidential: **Bid Submission: Tender #TOL2025008**

Bid For: **Town of Lunenburg**
119 Cumberland St. P.O. Box 786
Lunenburg, NS B0J 2C0

Attention: **Curtis Bell**

- .2 Bidder's name shall be clearly identified on the reverse side of the envelope.
- .3 Bids will be opened in private at the Town office.
- .4 Fill out the provided Bid Form in ink or by typing and have Bid Form signed in longhand by a duly authorized company official and sealed with the Bidder's corporate seal.
- .5 The Bid Form shall not be altered and all spaces for information shall be completed.
- .6 E-mail, telephone, or facsimile bid proposals or bid modifications will not be considered.
- .7 The Owner and Consultant may, after bid closing time and before Contract award, require any Bidder to submit, in a form prescribed by or acceptable to the Consultant, supplementary information about any aspect of the Bidder's bid that, in the Owner or Consultant's opinion, is necessary for bid evaluation purposes.

9.0 Bonding Requirements

- .1 Any reference to "Contract Price", with respect to any or all bonding requirements, refers to the largest Total Stipulated Contract Price of the alternatives.
- .2 Provide a certified cheque, money order, or bid bond bid deposit on CCDC Form 220 made payable to the Owner for 10% of the Contract Price.

10.0 Sufficiency of Bid

- .1 The submission of a bid shall constitute an incontrovertible representation by the Bidder that:
 - .1 The Bidder has complied with all bid requirements.
 - .2 The Bidder is qualified and experienced to perform the Work in accordance with the Bid Documents.
 - .3 The bid is based upon performing the Work in accordance with the Bid Documents, without exception.
 - .4 The price or prices stated in the bid cover all the Bidder's obligations under the Contract and all matters and things necessary for the performance of the Work in accordance with the Bid Documents.

11.0 Bid Irregularities

- .1 At the discretion of the Owner, bids that are unsigned, improperly signed or sealed, conditional, illegible, obscure, or contain arithmetical errors, erasures, alterations, or irregularities of any kind may be accepted or declared informal.
- .2 At the discretion of the Owner, bids that fail to include or to comply with bid security, bonding, or insurance requirements may be accepted or declared informal.
- .3 Informal bids may or may not be considered at the sole discretion of the Owner.
- .4 The Owner may accept or waive a minor and inconsequential irregularity, or where practicable to do so, the Owner may, as a condition of bid acceptance, request a Bidder to correct a minor and inconsequential irregularity with no change in bid price.
- .5 The determination of what is or is not a minor and inconsequential irregularity, the determination of whether to accept, waive, or require correction of an irregularity, and the final determination of the validity of a bid shall be at the Owner's sole discretion.
- .6 Discrepancies between words and figures will be resolved in favour of words.

12.0 Bid Withdrawal and Acceptance

- .1 The Owner reserves the right to reject any or all bids as the interests of the Owner may require, without stating reasons for rejection.
- .2 The lowest or any bid will not necessarily be accepted.
- .3 A Bidder who has already submitted a bid may submit a further bid at any time up to the official closing time. The last bid that is received shall supersede and invalidate all previously submitted bids by that Bidder for this Contract.
- .4 A bid may be withdrawn at any time before the bid closing time, provided the request is in the form of a signed letter on company letterhead received in hard copy at the office of the Consultant before the bid closing time.
- .5 Withdrawn bids may be resubmitted in accordance with these bidding requirements providing the resubmitted bid is received at the office of the Consultant before the bid closing time.
- .6 A bid may not be withdrawn at or after bid closing time and shall be open to acceptance by the Owner until whichever of the following occurs first:
 - .1 Another Bidder has entered into a Contract with the Owner for performance of the Work.
 - .2 60 calendar days after the bid closing time.
 - .3 Bid is released or rejected.
- .7 The 60-day acceptance period commences at midnight on the date of bid closing and terminates at midnight of the 60th day thereafter. If the 60th day falls on a statutory holiday, the statutory holiday will be deleted from the computation.
- .8 The 60-day acceptance period may be extended at the Consultant's request and subject to the Bidder's written agreement to the extension.
- .9 In the case of an error in addition, the correct sum of the amounts shown for each bid item shall be deemed to be the total bid price regardless of the total amount submitted by the Bidder.

.10 Evaluation of Bid:

In evaluating the bids, the Owner may consider any criteria, with such consideration to be exercised by the Owner in its sole discretion, including the following:

- .1 Bid Contract Price as determined from the base bid or alternate bid.
- .2 Owner's budget for the Work.
- .3 Contract Time.
- .4 Bidder's ability to effectively manage and perform the Work and work with other Subcontractors.
- .5 Bidder's understanding of the Work.
- .6 Bidder's Unit Prices, Allowances, and Separate Prices, if applicable.
- .7 Bidder's ability to present cost saving opportunities that may be appropriate and acceptable to the Consultant and Owner.
- .8 Bidder's experience, competence, and past performance in undertaking similar work, as well as that of its Subcontractors.
- .9 Bidder's financial strength and capability.
- .10 Experience, qualifications, and abilities of Bidder's supervisory personnel.
- .11 Aesthetic changes resulting from Bidder's proposed approach to the Work.
- .12 Other criteria that the Owner, in its sole discretion, may consider appropriate to its evaluation.

.11 Acceptance of Bid

- .1 The lowest or any bid need not be accepted by the Owner. The Owner reserves the right to accept or reject any or all bids at their sole discretion on any basis at any time without further explanation or to accept any bids considered advantageous to the Owner.

- .2 The Bidder acknowledges and agrees that the Owner will not be responsible for any costs, expenses, losses, damages, or liabilities incurred by the Bidder as a result of or arising out of participation in this bid process, submission of a bid, or due to the Owner's acceptance or non-acceptance of the bid.
- .3 The Owner may also elect not to proceed with the Project.

13.0 Addenda

- .1 Direct all questions in writing to the Owner.
- .2 Answers to queries are only binding when confirmed by written addenda.
- .3 Clarifications requested by Bidders must be submitted in writing to the Owner no less than two business days before the date set for receipt of the bids. Any reply will be in the form of an addendum, a copy of which will be forwarded to known Bidders before the date set for receipt of the bids.
- .4 Addenda may be issued by the Consultant during the bid period. Any addenda will be delivered by the Consultant via e-mail to all parties recorded by the Consultant as having received the Bid Documents.
- .5 All addenda become part of the Bid and Contract Documents and the costs arising from any addenda are to be included in the bid price.
- .6 Each Bidder shall ascertain before bid submission that all addenda issued by the Consultant have been received and the Bidder shall indicate in the Bid Form the addendum number(s) of all addenda received.

14.0 Construction Schedule

- .1 Schedule requirements are outlined in General Conditions, as amended by Section 00 73 00 - Supplementary Conditions and Supplementary Specification Section 01 10 01: General Requirements.

15.0 Alternative Materials or Equipment

- .1 A base bid submission is to include only approved and/or specified products and methods of construction.
- .2 Alternative materials or equipment will be considered provided requests for approval have been submitted to the Owner and Consultant.

- .3 If a Bidder wants to submit substitutes to the material, equipment, or workmanship specified or indicated, they may include the substitutes as an unsolicited alternative, and this shall be stated as such in the Alternate Prices section of the Bid Form.

16.0 Alternate Bids

- .1 A Bidder may, at the Bidder's discretion, submit an alternate bid ("Alternate Bid") that varies in some manner from the Bid Documents.
- .2 Alternate Bids may only be submitted in addition to, and not in substitution of, a bid that complies with the requirements of the specifications and drawings (the "Base Bid").
- .3 Products or systems identified in an Alternate Bid that vary from the products or systems described in the Bid Documents do not require pre-approval by the Consultant or Owner. An Alternate Bid should contain sufficient description and identification of any such varying products or systems to permit evaluation and review by the Consultant and the Owner.

17.0 Qualifications

- .1 Bidders shall be actively engaged and experienced in the type of work required by these Bid Documents and the Bidder shall provide, on request, a statement of similar work performed by those persons.
- .2 Submit a resume of key project personnel with the bid.

18.0 Damages Due to Delay in Work Schedule

- .1 If the area of the work is not available for occupancy by the Owner after the date for Substantial Performance of the Work outlined in the Agreement and as modified by Change Order, the Contractor will be responsible for all damages in accordance with the General Conditions.

19.0 Third Party Liability Claims

- .1 In accordance with the General Conditions, the Owner may withhold total or partial payments after Contract award to cover third party liability claims for damages. Withheld payment amounts will be used by the Owner to cover third party liability claims for property damage when there is a dispute between the Owner and Contractor regarding responsibility for the claim. These funds are intended to ensure that third parties receive compensation promptly.
- .1 Payments to the third party are to be released immediately and unresolved disputes with respect to the responsibility of the claim shall be settled prior to Project total completion.
- .2 Receipts for payments to cover third party liability claims for damages shall be provided to the Contractor before Project total completion.

END OF SECTION

PROJECT: **TOL #2025008: 2025 Civic Square Bandstand Rehabilitation**

DATE: _____

SUBMITTED BY: _____
(Company Name)

OF: _____
(address) (telephone)

To: **Town of Lunenburg**
119 Cumberland St. P.O. Box 129
Lunenburg, Nova Scotia
B0J 2C0

1.0 Contract Price

1.1 Having examined the project site, and having carefully examined the General Conditions of the Standard Specification for Municipal Services, as amended by Section 00 73 00 - Supplementary Conditions, the Specifications, Drawings, and schedules, including Addenda ____ to ____ issued as supplements thereto, and having examined and complied with Section 00 21 00 - Instructions to Bidders, we hereby offer to perform the Work set forth in the aforesaid documents for the Contract Price of:

Contract Price	\$ _____
HST (14%)	\$ _____
Contract Price including HST	\$ _____

2.0 Identified Price Breakdown

The Owner reserves the right to add or delete any item(s) to be performed under this Contract before and/ or after the Contract is awarded without penalty. Any revisions to the submitted Contract Price as a result of these deletions are to be solely based on the unit prices (or lump sum prices) quoted by the Contractor for those items.

The following identified prices **are included** in the Contract Price. The Contract Price shall include the total of all the separate Bid Form Items and shall include all work as described in these Documents.

.1 Contract Lump Sum Price Items

Where the items are indicated as Lump Sum (LS) and a quantity is indicated, this quantity is for guidance of the Contractor only. The Owners and Consultant assume no responsibility for the accuracy of this quantity. The Contractor shall confirm the actual quantities by site measurement prior to bidding. No quantity measurement will be made and no adjustment to Lump Sum price will be made as a result of any quantity variation.

The Lump Sum (LS) amount for Mobilization, Miscellaneous Overheads, and Special Costs is to include the following:

- Cost of mobilization and demobilization
- Cost of traffic control barriers, hoarding, and signs as required
- Cost of protection of existing utilities as required
- Cost of any protection of the public not specifically described under any other pay item
- Cost of all permits **(including building and development permits)**, royalties, freight, and government duties.

The cost of all general site overheads not named above are to be distributed to the various pay items in a balanced manner.

.2 Work Items Not Specified on Bid Form

The identified items listed on the Bid Form include all costs associated with that item. In the event that particular items are deleted from the Contract, the price for those items noted on the Bid Form represents the credit to the Contract. If there is an item or portion of the work that a bidder feels is not adequately covered in the separate bid items listed on the Bid Form, the bidder shall identify that item and its associated cost separately as part of the Bid Form.

ITEM	SPEC NO.	DESCRIPTION	CONTRACT PRICE
2.1	Div. 01	Bonding	LS \$ _____
2.2	Div. 01	General Requirements, Mobilization, Demobilization, Traffic and Pedestrian Management Plans, Special Costs, etc.	LS \$ _____

2.3 Div. 01 Cleaning

.1 Cleaning and disposal of all waste products and/or debris generated by construction activity, as well as any material present in work area prior to commencement of work.

LS \$ _____

2.4 Div. 01 Hazardous Materials Survey

.1 Provide an HMS report prepared by a third party environmental consulting firm licensed to practice in Nova Scotia to identify any potentially hazardous materials that may affect the performance of the work.

LS \$ _____

2.5 Div. 02 Selective Demolition

.1 Remove and dispose of existing wood decking, trim boards, structural steel deck framing and all other materials required to accommodate the work.

LS \$ _____

2.6 Div. 05 Structural Steel and Metal Fabrications

.1 New hot dipped galvanized structural steel deck frame including all necessary shop and field work to accommodate tie-ins between new and existing components. Work to include fabricator prepared shop drawings complete with all necessary connection designs stamped by a P.Eng licensed to practice in Nova Scotia.

LS \$ _____

- 2.7 Div. 06 New Ramp
- .1 New pressure-treated and painted wood ramp structure on new and existing sonotube foundations, including new railing system and tie-ins at existing bandstand structure and asphalt pathway. LS \$ _____
- 2.8 Div. 06 Wood Decking
- .1 New pressure-treated and painted wood decking, sleeper boards, trim boards, and hardware as shown on the drawings and as specified. LS \$ _____
- 2.9 Div. 09 Structural Steel Painting
- .1 Clean, prepare, and recoat existing steel components as shown on the drawings and as specified. LS \$ _____
- 2.10 Div. 09 General Painting
- .1 Clean, prepare, and paint new wood decking and trim boards as shown on the drawings and as specified. LS \$ _____
- .2 Temporarily remove, store, repair, clean, prepare and repaint existing wood railings and benches. Work includes reinstallation upon completion of the new decking and all necessary brackets and hardware to connect the fixtures to the existing structure. LS \$ _____
- 2.11 Div. 09 Roof Ornament
- .1 New copper flashed roof ornament complete with painted base. Includes all necessary materials and equipment to complete attachment to existing structure. LS \$ _____

2.12 Any additional item(s) not specified in BID FORM, which are specified in the Contract, that the Contractor would like to specifically designate in BID FORM.

- (Indicate: - Description of Work Item
 - Quantity (if applicable)
 - Unit Cost with ‘*’
 - Lump Sum Cost with ‘LS’

.1	_____	\$	_____
.2	_____	\$	_____
.3	_____	\$	_____
.4	_____	\$	_____

2.13	MATERIALS TESTING ALLOWANCE (see clause 2.17)	\$	<u>10,000.00</u>
2.14	CONTINGENCY ALLOWANCE (see clause 2.18)	\$	<u>30,000.00</u>
2.15	CONTRACT PRICE	\$	_____
2.16	HST (14%)	\$	_____
2.17	CONTRACT PRICE INCLUDING HST	\$	_____

2.18 The Materials Testing Allowance shown in Item 2.12 of this Bid Form is to be used for third-party steel/weld inspection and testing and coating inspections, if considered necessary.

2.19 The Contingency Allowance shown in Item 2.13 is to be used for changes to Contract due to unforeseen site conditions.

3.0 Contract Unit Prices

The following Contract unit prices shall be used to modify the Contract amount in variance with specified work and include all provisions required to perform the unit work.

4.0 Alternate Prices

4.1 The following alternate prices apply to work not included in the tender amount, but which may be substituted by Owner for Work that is included. Alternate prices listed take into consideration and allow for changes and adjustments in other Work as required to form a complete and finished job. Alternate prices represent the amount to be added to or deducted from the Contract Price, should Owner accept the alternative. No price listed shall mean that there is no change in price. Owner reserves the right to accept or reject any or all alternative prices listed. Any submissions for alternatives shall comply with Section 01 25 13.

DESCRIPTION	ADD	DEDUCT
Provide the net addition/deduction to the Contract Price and time to supply and install aluminum flashed roof ornament colour matched to patina copper, in lieu of copper flashed roof ornament.	\$ _____ _____ weeks	\$ _____ _____ weeks
Provide the net addition/deduction to the Contract Price and time to supply and install new wood painted railings and benches, constructed to match appearance of existing.	\$ _____ _____ weeks	\$ _____ _____ weeks
_____	\$ _____ _____ weeks	\$ _____ _____ weeks
_____	\$ _____ _____ weeks	\$ _____ _____ weeks

5.0 Schedule of Hourly Rates

The following schedule of hourly rates shall be used to modify the Contract amount for Owner directed Changes to the Work and for the purposes of evaluating time and material changes. Additional services shall not commence without the Owner’s prior written approval, and the Owner must approve any claim for such additional service in writing.

ITEM	DESCRIPTION	UNIT	UNIT PRICE (REGULAR TIME)	UNIT PRICE (OVERTIME)
5.1	Project Manager	Per hour	\$ _____	\$ _____
5.2	Site Superintendent	Per hour	\$ _____	\$ _____
5.3	Foreperson	Per hour	\$ _____	\$ _____
5.4	Carpenter / Labourer	Per hour	\$ _____	\$ _____
5.5	Welder/Fabricator	Per hour	\$ _____	\$ _____

6.0 Subcontractors

- 6.1 We submit a complete list of subcontractors we propose to use on this Contract and the Sections of the Work to be done by them.
- 6.2 We reserve the right to substitute another Subcontractor for the same work in the event that a subcontractor should withdraw its bid or become bankrupt. All subcontractor substitutions are subject to the Owner’s approval.
- 6.3 Any such substitution, in order to be considered for approval by the Owners and/or Consultant, is contingent on the submission of conclusive evidence of withdrawal, bankruptcy, or unsatisfactory performance.
- 6.4 The Contractor is responsible for all costs incurred as a result of substituting one subcontractor for another.

6.5 Bid may not be considered unless the names of all subcontractors are listed in space provided.

SECTION	TITLE	SUBCONTRACTOR

6.6 The following is a list of the sections of the Work that we propose to execute with our own forces:

SECTION	TITLE

7.0 Bid Deposit and Agreement to Bond

7.1 Attached is our Bid Security in the amount of 10% of the Tender Price and an agreement to provide all bonds requested in Bid Documents.

7.2 We agree to furnish Bonds in accordance with the General Conditions as amended by the Supplementary Specifications of this Contract within 14 days of Contract execution.

8.0 Acceptance

8.1 This Bid is irrevocably open to acceptance for a period of 90 days from the date of bid closing and is promised in consideration of the amount of 10% of the bid (we attach a Bid Security). Failure to enter into a contract after Owner’s acceptance of this bid shall result in forfeiture of the Bid Security.

8.2 We agree to enter into a contract with the Owner in accordance with the Standard Specification for Municipal Services as amended by this Bid Document, within five days of written notification of acceptance of this Bid.

- 8.3 We understand and agree that this bid may be adjusted in accordance with any or all of the separate or additional prices submitted herewith.
- 8.4 We understand that submission of this bid implies acceptance of the existing conditions at the site.
- 8.5 We understand that the lowest or any tender will not be necessarily be accepted and that selected items may be deleted from the Project as represented in the Bid Form.
- 8.6 We understand that the Owner reserves the right to waive minor defects or irregularities in the bid submission.
- 8.7 We understand that the Owner may withhold total and partial payment to cover third party liability claims as outlined in Tender Documents.
- 8.8 We agree to staff on-site activity on the specified start date (to be confirmed with Owner) or within five days of Award of Contract. We agree to complete the Work by the specified completion date as outlined in these specifications.
- 8.9 We understand that Contract time is of the essence and that the schedule submitted with our bid will be considered prior to the award of the Contract. We therefore submit the following schedule in the tender package for consideration in evaluating our Bid:

Earliest Start Date: _____

Project Schedule: _____ Weeks

9.0 Bidder’s Signature and Company Seal

Bidder: _____
(Company Name)

Signature _____
(Authorized Officer)

Signature _____
(Authorized Officer)

(Seal)

Date _____

END OF SECTION

This Agreement made on the ____ day of _____, 2025.

BY AND BETWEEN

Town of Lunenburg

hereinafter called the “Owner”

and

[Contractor]

hereinafter called the “Contractor”

The Owner and the Contractor agree as follows:

ARTICLE A1 – THE WORK

The Contractor shall:

.1 Perform the Work required by the Contract Documents for

Civic Square Bandstand Rehabilitation

located at Lunenburg, Nova Scotia

For which the Agreement has been signed by the parties, and for which

Read Jones Christoffersen Ltd.

is acting as and is hereinafter called the “Engineer”

and

.2 do and fulfill everything indicated by this Agreement, and

- .3 commence the Work by the _____ day of _____ in the year _____ and attain Substantial Performance of the Work by the _____ day of _____ in the year _____ and Total Performance of the Work by the _____ day of _____ in the year _____ (as applicable and per the Contract).

ARTICLE A2 – AGREEMENTS AND AMENDMENTS

- .1 This Contract supersedes all prior negotiations, representations and agreements, either written or oral, relating in any manner to the work, including the bidding documents that are not expressly listed in Article A3 of the Agreement.

ARTICLE A3 – AGREEMENTS AND AMENDMENTS

The following is an exact list of the Contract Documents referred to in Article A1.1 of this Agreement and as defined in subsection 6 of Section 00 71 00 DEFINITIONS. This list is subject to subsequent amendments in accordance with the provisions of the Contract Documents.

- .2 Standard Specifications for Municipal Services.
- .3 Section 00 20 00 - Overview
- .4 Section 00 21 00 - Instructions to Bidders
- .5 Section 00 41 00 - Bid Form
- .6 Section 00 73 00 - Supplementary Conditions
- .1 Including the following Supplementary Specification Sections:
- .1 Section 02 41 13 – Selective Demolition
- .2 Section 05 10 00 – Structural Steel
- .3 Section 06 10 00 – Rough Carpentry
- .4 Section 06 15 00 – Wood Decking
- .5 Section 09 91 14 – Structural Steel Repainting
- .6 Section 09 91 19 – General Painting
- .7 Section 26 01 00 – General Electrical Requirements
- .7 Drawings, as outlined in Section 00 01 15 - List of Drawings.

ARTICLE A4 – CONTRACT PRICE

- .1 The Contract Price is the sum of the Lump Sum Prices in the Bid Form excluding the amount of Harmonized Sales Tax.
- .2 The Estimated Contract Price is \$ _____
- .3 All amounts shall be in Canadian funds.
- .4 The amounts shall be subject to adjustments as provided in the Contract Documents.

ARTICLE A5 – PAYMENT

- .1 The Owner shall pay the Contractor in Canadian funds for the performance of the Contract.
- .2 The Owner shall make monthly payments on account to the Contractor for the Work performed, as certified by the Engineer, subject to 10% holdback.
- .3 The amount of the monthly payments shall be calculated as follows:
 - .1 The quantity for each pay item on which actual work has been performed shall be measured.
 - .2 For each Lump Sum Item, multiply the percent complete by the value of the Lump Sum Item.
 - .3 The total value of work completed for the payment period shall be calculated by adding the total for all pay items from 3.2 of this Article.
 - .4 The amount of the monthly payment shall be determined by deducting the 10% holdback and the total of all previous payments from the total value of such completed work as determined under 3.3 of this Article.
 - .5 To the amount calculated above, the Harmonized Tax will be added.

- .4 Upon Substantial Performance of the Work as certified by the Engineer, the Owner shall pay to the Contractor the holdback monies then due in accordance with the provisions of Section 00 72 45 – General Conditions, subsection GC5.6 – PAYMENT OF HOLDBACK UPON SUBSTANTIAL PERFORMANCE OF THE WORK.
- .6 Upon the issuance of the final certificate for payment as certified by the Engineer, the Owner shall pay to the Contractor the balance of monies then due in accordance with the provision of Section 00 72 45 – General Conditions, subsection GC5.7 – FINAL PAYMENT.
- .7 In the event of loss or damage occurring where payment becomes due under the property and boiler insurances policies, payment shall be made to the Contractor in accordance with the provisions of Section 00 72 45 – General Conditions, subsection GC11.1 – INSURANCE.
- .7 If the Owner fails to make payment to the Contractor as it becomes due under the terms of the Contract, interest shall be payable as follows:
 - .1 The annual interest rate applicable to the contract is []% compounded monthly.
 - .2 Interest shall be calculated on the overdue balance from the due date.

ARTICLE A6 – RECEIPT OF AND ADDRESSES FOR NOTICES IN WRITING

- .1 Notices in writing will be addressed to the recipient at the address set out below.
- .2 The delivery of a Notice in Writing will be by hand, courier, prepaid first class mail, facsimile or e-mail.
- .3 A Notice in Writing delivered by one party in accordance with this Contract will be deemed to have been received by the other party on the date of delivery if delivered by hand or courier, or if sent by mail it shall be deemed to have been received (5) working days after the date on which it was mailed.
- .4 A Notice in Writing sent by facsimile or e-mail shall be deemed to have been received on the date of its transmission provided that such day is a Working Day or if it is received after the end of normal business hours on the date of its transmission at the place of receipt, then it shall be deemed to have been received at the opening of business at the place of receipt on the first Working Day next following the transmission thereof.

.5 An address for a party may be changed by Notice in Writing setting out the new address delivered to the other party in accordance with this Article.

.1 The Owner at 119 Cumberland Street, P.O. Box 129, Lunenburg, NS B0J 2C0

.2 The Contractor at _____

.3 The Engineer at 1701 Hollis Street, Halifax, Nova Scotia, B0J 2E0

ARTICLE A7 – SUCCESSION

The aforesaid Contract Documents are to be read into and form part of the Agreement and the whole shall constitute the Contract between the parties and subject to law and the provisions of the Contract Documents shall inure to the benefit of and be binding upon the parties hereto, their respective heirs, legal representatives, successors and assigns.

ARTICLE A8 – RIGHTS AND REMEDIES

No action or failure to act by the Owner, Engineer, or Contractor shall constitute a waiver of any right or duty afforded any of them under the Contract, nor shall any such action or failure to act constitute an approval of or acquiescence in any breach thereunder, except as may be specifically agreed in writing.

ARTICLE A9 – TIME

Time shall be construed as being the essence of the Contract.

In witness whereof the parties hereto have executed this Agreement and by the hands of their duly authorized representatives.

SIGNED AND DELIVERED

In the presence of:

OWNER

Town of Lunenburg

Name of Owner

Witness

Signature

Date

Witness

Signature

Name and Title of Person Signing

CONTRACTOR

Name of Contractor

Witness

Signature

Name and Title of Person Signing

Date

Witness

Signature

Name and Title of Person Signing

Date

N.B. Where legal jurisdiction, local practice or Owner or Contractor requirements calls for proof of authority to execute this document, attach such proof of authority in the form of a certified copy of a resolution name the representative(s) authorized to sign the Agreement for and on behalf of the corporation or partnership.

END OF SECTION

1.0 INTENT OF SUPPLEMENT

- .1 Construct Work of this Contract in accordance with the 2024 Standard Specification for Municipal Services, published by the Joint Committee on Contract Documents (JCCD) in association with the Nova Scotia Road Builders Association (NSRBA) and the Consulting Engineers of Nova Scotia (CENS).
- .2 These Supplementary Specifications take precedence over the sections of Standard Specification for Municipal Services indicated.
- .3 Standard Specification for Municipal Services sections are modified in this supplement as follows:

2.0 SUPPLEMENTARY DEFINITIONS

Definitions used in the Standard Specification for Municipal Services as copied from CCDC18-2023, are hereby amended as follows, and wherever the Definitions are referred to in the *Contract Documents*, it shall be understood that such reference means as amended by these Supplementary Definitions.

- .1 Consultant: Add the following sentence to the end of the definition:

“The term *Consultant* means the *Consultant* or the *Consultant's* authorized representative.”
- .2 Contract Time: Delete the following words:

“the time from commencement of the *Work* to the date of *Ready-for-Takeover*”
- .3 Contractor: Add the following sentence to the end of the definition:

“The term *Contractor* shall be defined as the *Contractor* or the *Contractor's* authorized representative, but does not include the *Consultant*.”
- .4 Dictionary: Add the following new definition:

“In case of dispute, The Concise Oxford Dictionary of Current English (current edition) shall prevail, except for those definitions given in Standard Specification for Municipal Services and in various other places in the Contract Documents.”

- .5 Owner: Add the following sentence to the end of the definition:
- “The term *Owner* shall be defined as the *Owner* or the *Owner’s* authorized representative, but does not include the *Consultant*.”
- .6 Standard Specification: Add the following new definition:
- The Standard Specification consists of Definitions, General Conditions, Supplementary General Conditions, Measurements and Payment, General Requirements, other technical specifications and standard details contained within the Standard Specification for Municipal Services, as issued by the Joint Committee of Contract Documents.
- .7 Substantial Performance of the Work: Add the following sentence to the end of the definition:
- “If such legislation is not in force or does not contain such definition at the *Place of the Work*, *Substantial Performance of the Work* shall have been reached when the *Work* is ready for use or is being used for the purpose intended and is so verified by the *Consultant*.”
- .8 Supplementary Specifications: Add the following new definition:
- Supplementary Specifications consist of the specifications for a specific project which amend or add to the Standard Specification.
- .9 Total Performance: Add the following new definition:
- “With the exception of warranty obligations, *Total Performance* of the *Work* shall be achieved when the *Contractor* has fulfilled the requirements of the *Contract* in their entirety, including issuance of the Occupancy / Closeout Permit by the Authority having Jurisdiction if applicable; and is so verified by the *Consultant* through issuance of the final Certificate for Payment in accordance with GC 5.7.”
- .10 Total Performance Date: Add the following new definition:
- “The date in which *Total Performance* has been scheduled and/or attained by the *Contract*.”

3.0 SUPPLEMENTARY CONDITIONS

The General Conditions of the Standard Specification for Municipal Services as copied from CCDC18 are hereby amended as follows and wherever the General Conditions are referred to in the *Contract Documents*, it shall be understood that such reference means as amended by the Supplementary Conditions.

3.1 GC 1.1 Contract Documents

- .1 Paragraph 1.1.4: Delete the words:

“shall not proceed with the work affected”,

and replace with the words:

“shall take all reasonable measures so as not to delay the work affected”.

- .2 Paragraph 1.1.5.6: Add the following new paragraph:

“Notwithstanding the other clauses in Subsection 1.1.5, any permits or directives issued by the Nova Scotia Environment, Nova Scotia Department of Public Works or other applicable regulatory agencies for this project shall govern over all Contract Documents.”

- .3 Paragraph 1.1.12: Add the following new paragraph:

"The *Owner* will provide the *Contractor*, without charge, two hard copies and one PDF copy of the *Contract Documents* to perform the Work. Additional copies of the *Contract Documents* or parts thereof required by the *Contractor* shall be provided at the *Contractor's* expense."

3.2 GC 2.2 Role of the Consultant

- .1 Paragraph 2.2.1: Delete entirely and replace with the following:

"The *Consultant* will provide administration of the *Contract* as described in the *Contract Documents* during construction until issuance of Final Certificate for Payment, and subject to GC 2.1 - Authority of the Consultant."

- .2 Paragraph 2.2.3: Delete entirely.

3.3 GC 2.3 Review and Inspection of the Work

- .1 Paragraph 2.3.8: Add the following new paragraph:

"Where standards of performance are specified and the *Work* is not compliant, such deficiency shall be corrected as directed by the *Consultant*. Any subsequent testing (including re-testing by the *Owner*) to verify performance shall be done at the *Contractor's* expense."

3.4 GC 3.4 Construction Schedule

- .1 Paragraph 3.4.1.1: Delete the words: "prior to the first application for payment",
- and replace with the words: "within one week of Contract award and prior to commencing construction".

3.5 GC 3.7 Subcontractors and Suppliers

- .1 Paragraph 3.7.7: Add the following new paragraph:
- "Specifications are arranged in Divisions and Sections for convenience. They shall be read as a whole. This arrangement places no responsibility upon the Owner or Consultant to settle disputes between Subcontractors and Suppliers or between the Contractor and Subcontractors and Suppliers."*

3.6 GC 3.8 Labour and Products

- .1 Paragraph 3.8.2: Delete the words: "The Contractor",
- and replace with the words: "Unless otherwise specified, the Contractor".

3.7 GC 3.9 Shop Drawings

- .1 Paragraph 3.9.7: Delete the words:
- "in accordance with the schedule agreed upon, or in the absence of such schedule, with reasonable promptness so as to cause no delay in the performance of the *Work*",
- and replace with the words:
- "to *Contractor* within 10 working days of receipt".

3.8 GC 3.10 Documents at the Site

- .1 Add the following section:
- “GC 3.10 DOCUMENTS AT THE SITE
- 3.10.1 The *Contractor* shall keep one copy of current *Contract Documents*, submittals, reports, and records of meetings at the *Place of the Work*, in good order and available to the *Owner* and the *Consultant*.”

3.9 GC 4.1 Cash Allowances

- .1 Paragraph 4.1.7: Delete the words: “and the *Consultant* shall jointly”
and replace with the words: “, in consultation with the *Consultant*, shall”.

3.10 GC 5.4 Applications for Payment

- .1 Paragraph 5.4.4.2: Delete entirely and replace with the following:
“The schedule of values shall be made out in such form as specified in the *Contract* and supported by such evidence and possible modification as the *Consultant* may reasonably require until accepted by the *Consultant*.”
- .2 Paragraph 5.4.7: Delete the words:
“and *Products* delivered to the *Place of the Work*”,
and insert the following sentence to the end of the paragraph:
“Payment will not be made for *Products* delivered to the *Place of the Work* but not yet incorporated into the *Work*.”
- .3 Paragraph 5.4.8: Add the following new paragraph:
“Upon establishing that the *Work*, or a portion of the *Work*, has been Completed (as per the governing Builder’s Lien Legislation), the *Contractor’s* applications for payment for those portions of the *Work* deemed Complete, shall reflect the balance of the *Contract* price less:
 - .1 the aggregate amount, if any, determined in accordance with GC 5.6.1 multiplied by two, and
 - .2 the amount, if any, determined in accordance with GC 5.8 – Deferred Work.Until all of the deficient and incomplete work for which amounts are withheld pursuant to subparagraphs .1 and .2 of this Paragraph 5.4.8 are rectified and completed to the satisfaction of the *Consultant*, the *Owner* may withhold the full amounts set out in Subparagraphs .1 and .2 of this Paragraph 5.4.8 respectively.”

- .4 Paragraph 5.4.9: Add the following new paragraph:

“The *Contractor* shall complete the deficient and incomplete work in a timely manner in accordance with the *Contract*. Acceptance of the *Work* or occupancy of the *Project* or any portion thereof shall not relieve the *Contractor* from the obligation of correcting deficiencies which are not identified at the time of establishing the list of deficient and incomplete items of work.”

- .5 Paragraph 5.4.10: Add the following new paragraph:

“Unless all independent material testing results of *Products* supplied to the site have been received, or if the deficiency review process has not yet commenced, the maximum percent of work completed that can be claimed by the *Contractor* and certified by the *Consultant* for any item of work is 90%.”

3.11 GC 5.5 Payment

- .1 Paragraph 5.5.1: in the first sentence: add the following words after “receipt of the application for payment”:

.1 “that is complete and in conformance with the *Contract*”.

- .2 In subsection 5.5.1.1: add the following words after “the *Consultant*”:

.1 “, in consultation with the *Owner*,”.

.2 Add the following sentences to the end of the subsection:

"In addition to the statutory lien holdback, Certificates for Payment may provide for retention of amounts, as determined by the *Consultant*, to account for deficient or incomplete work, until the items in question have been addressed and are determined to be in general conformance with the *Contract*."

- .3 Paragraph 5.5.1.2: Delete the words: “by the *Owner* and the *Consultant* of the application for payment”

and replace with the words: “of the Certificate for Payment by the *Consultant*”.

- .4 Paragraph 5.5.3: Add the following new paragraph:

“The *Owner*, in consultation with the *Consultant* and as verified through a Certificate for Payment, may withhold total or partial payments at any point after Contract award to cover third party liability claims related to the *Contractor’s* operations or actions. The withheld payment amounts shall be used by the *Owner* to cover third party liability claims when there is a dispute between the *Owner* and the *Contractor* regarding responsibility for the claim. These funds are intended to ensure that third parties receive compensation promptly.

- .1 Payments to the third parties are to be released immediately and unresolved disputes between the *Owner* and the *Contractor* shall be addressed in accordance with the *Contract*.
- .2 Receipts for payments to cover third party liability claims for damages shall be provided to the *Contractor* as requested or required in accordance with the *Contract*.”

3.12 GC 5.6 Substantial Performance of the Work and Payment of Holdback

- .1 Paragraph 5.6.1: Delete entirely and replace with the following:

“When the *Contractor* considers the *Work* to be substantially performed and in accordance with any applicable lien legislation requirements, the *Contractor* shall submit to the *Consultant* and the *Owner* a written application for *Substantial Performance of the Work*, which shall include a declaration stating that the *Contractor* has attained *Substantial Performance of the Work*, a comprehensive list of items to be completed or corrected, and a request for the *Consultant* to review the claim. The *Consultant* will review the *Work* to certify or verify the validity of the application and, in accordance with applicable lien legislation, or in the absence of such legislation, no later than 10 calendar days after receipt of the *Contractor’s* application:

- .1 advise the *Contractor* in writing that the *Work* or the designated portion of the *Work* is not substantially performed and give reasons why, or
- .2 Issue or request the required documents for *Substantial Performance of the Work* in accordance with applicable lien legislation, or in the absence of such legislation, issue the Certificate of Completion.”

3.13 GC 5.7 Final Payment

- .1 Paragraphs 5.7.2, 5.7.3, and 5.7.4: Delete entirely.
- .2 Paragraphs 5.7.2 and 5.7.3: Add the following new paragraphs:
 - “5.7.2 All parties are to process in accordance with Part 5 – PAYMENT.
 - 5.7.3 The *Consultant* will not consider the application for final payment valid until all applicable materials installed are tested and the *Contractor* has fulfilled the project closeout requirements that include, but are not limited to, GC 5.6 Part 12 – Owner Takeover”

3.14 GC 6.1 Owner’s Right to Make Changes

- .1 Paragraph 6.1.2: Add the following to the paragraph:

"The valuation for the change shall include the following maximum adjustments for overhead and profit based on the actual costs:

 - .1 For Subcontractors - 10% for overhead and 5% for profit on the cost of their work.
 - .2 For Contractor - 2.5% for overhead and 2.5% for profit on the cost of the Subcontractors’ work.
 - .3 For Contractor - 10% for overhead and 5% for profit on the cost of their work.

Profit to be based on the value of work including overhead.”

3.15 GC 6.2 Change Order

- .1 Paragraph 6.2.1: Delete entirely and replace with the following:

“When a change in the *Work* is proposed or required, the *Consultant* will provide the *Contractor* with a written description of the proposed change in the *Work*. The *Contractor* shall prepare and submit to the *Consultant*, in a form required by the *Consultant* to permit evaluation, the adjustment in *Contract Price*, if any, and adjustment in *Contract Time*, if any, for the proposed change in the *Work*. Time is of the essence with respect to changes and the *Contractor* shall submit requested *Change Order* documents within a reasonable timeframe commensurate with the requirements of the *Change Order*, and as required to not cause a delay in the contract schedule.”

- .2 Paragraph 6.2.3: Delete the words “be effective immediately and shall be recorded in a *Change Order*”

and replace with the words “be recorded in a *Change Order* and shall take effect when the *Change Order* is fully signed by the required parties”

- .3 Paragraph 6.2.4: Add the following new paragraph:

“The *Contractor* shall ensure that all adjustments in *Contract Price* and *Contract Time* associated with bonding are included in all *Change Orders* and *Change Directives*. The *Contractor* remains responsible to ensure bonding of the work is not jeopardized. Upon request by either the *Owner* or the *Consultant*, the *Contractor* shall provide proof that the Surety Company is being notified and kept apprised of the status of the *Contract* and any changes. The *Contractor* shall also provide, upon request by the *Owner* or *Consultant*, written confirmation from the Surety Company of any increases to bonding costs.”

3.16 GC 6.3 Change Directive

- .1 Paragraph 6.3.6.2: Delete entirely and replace with the following:

“If an *Owner* requested change results in a net decrease in the *Contractor’s* cost, the *Contract Price* shall be decreased by the amount of the net decrease on the *Contractor’s* costs, excluding the typical adjustment for the *Contractor’s* percentage fee. If a *Contractor* requested change results in a net decrease in the *Contractor’s* cost and is not required to maintain the primary design performance or intent of the *Project* as interpreted by the *Consultant*, the *Contract Price* shall be decreased by the amount of the net decrease in the *Contractor’s* cost, including the adjustment for the *Contractor’s* percentage fee.”

3.17 GC 6.5 Delays

- .1 Paragraph 6.5.3: Revise as follows:

.1 In Sentence .4, insert the phrase, “except lack of funds or breakdown of Construction Equipment, and,” after the word “control”.

.2 In Sentence .4, replace “one” with “ones”.

- .2 Paragraph 6.5.6: Add the following new paragraph:

“If the area of the *Work* outlined in these *Specifications* is not available to the *Owner* for its intended use after the *Ready-for-Takeover* or *Total Performance* dates, and the *Owner* claims the *Contractor* has caused the delay, the *Contractor* may be responsible for damages resulting from the delay in the work schedule. (For example, an *Owner’s* cost and reduced revenues associated with an extended work schedule). This potential impact to the *Contractor* shall be subject to the provisions of the *Contract*, including but not limited to, SC 2.2.8, Part 8 Dispute Resolution, etc.”

3.18 GC 6.6 Claims for a Change in Contract Price

- .1 Paragraph 6.6.1: Delete entirely and replace with:

“If the *Contractor* intends to make a claim for an increase to the *Contract Price*, or if the *Owner* intends to make a claim against the *Contractor* for a credit to the *Contract Price*, the party that intends to make the claim shall provide *Notice in Writing* of intent to claim to the other party and to the *Consultant* no later than 10 working days after discovery of the condition or event giving rise to the claim. Should either party fail to submit proper notice within the required time frame, the responding party, in conjunction with the *Consultant*, reserves the right to reject the claim.”

3.19 GC 7.2 Contractor's Right to Suspend the Work or Terminate the Contract

- .1 Paragraph 7.2.3.1: Delete entirely.
- .2 Paragraph 7.2.4: Replace the words “5 *Working Days*” with “10 *Working Days*”.
- .3 Paragraph 7.2.6: Add the following new paragraph:

“Withholding of payments to the *Contractor* shall remain in effect and may be implemented despite the requirements of GC 7.2. As deemed required by the *Consultant*, amounts may be retained for the *Contractor’s* failure to pay all just claims and invoices in accordance with the *Contract*. Furthermore, at the discretion of the *Consultant*, registration or notice of a project-related lien against the *Owner’s* property may also result in funds being retained pursuant to provincial lien legislation at the *Place of the Work*.”

3.20 GC 8.3 Negotiation, Mediation, and Arbitration

- .1 Paragraph 8.3.8.1(1): Delete entirely and replace with the following:

“Total Performance,”

3.21 GC 10.2 Laws, Notices, Permits, and Fees

- .1 Paragraph 10.2.2: Delete the words “building permit,” from the first sentence.
- .2 Paragraph 10.2.3: Insert the words “(including building permit)” after the word “permits” in the first line.

3.22 GC 10.4 Workers’ Compensation

- .1 Paragraph 10.4.2: Add the following new paragraph:

"The *Contractor* shall indemnify and hold harmless the *Owner* from and against all claims, demands, actions, suits, or proceedings by any of the employees of the *Contractor* or *Subcontractors* with respect to worker's compensation insurance. This indemnity shall survive the completion of the *Work* or termination of the *Contract* for any reason."

3.23 GC 12.1 Ready-for-Takeover

- .1 Paragraph 12.1.5: Delete entirely and replace with the following:

“No later than five days following confirmation of the date of *Ready-for-Takeover*, the *Contractor*, in consultation with the *Consultant*, shall establish a reasonable *Total Performance* date.”

3.24 GC 12.3 Warranty

- .1 Paragraph 12.3.1: Replace the words “one year” with the words “as specified, or where not specified elsewhere, one year”.
- .2 Paragraph 12.3.3: Delete the words “through the Consultant,”.
- .3 Paragraphs 12.3.3, 12.3.4, and 12.3.6: Replace the words “one year” with the word “specified”.

3.25 GC 13.1 Indemnification

- .1 Paragraph 13.1.1: Delete entirely and replace with the following:

“Without restricting the parties’ obligation to indemnify respecting toxic and hazardous substances, patent fees and defect in title claims as described in paragraphs 13.1.4 and 13.1.5, the *Owner* and the *Contractor* agree to the following:

- .1 The *Contractor* and the *Owner* shall each indemnify and hold harmless the other, and their respective agents and employees, from and against all claims, demands, losses, costs, or damages of third parties, arising or alleged to arise directly, indirectly, or incidentally by reason of the operations and activities of the party from whom indemnification is sought in the execution of the *Contract*.
- .2 Claims must be made by *Notice in Writing* within 6 years from the *Ready-for-Takeover* date or within a shorter period in accordance with any limitation statute in effect for the *Place of the Work*.
- .3 The parties expressly waive the right to indemnity for claims other than those provided for in this *Contract*.”

- .2 Paragraph 13.1.2.2: Replace the value “\$2,000,000” with the value “\$5,000,000”.

- .3 Paragraph 13.1.7: Add the following new paragraph:

“The *Contractor* shall indemnify and hold harmless the *Consultant* and their respective agents and employees from and against all claims, demands, losses, costs, or damages of third parties, arising or alleged to arise directly, indirectly, or incidentally by reason of the operations and activities of the party from whom indemnification is sought in the execution of the *Contract*. This indemnification shall survive completion of the *Work* or termination of this *Contract* for any reason.”

3.26 GC 13.2 Waiver of Claims

- .1 Paragraph 13.2.5.4: Replace the words “*Notice is Writing*” with the words “*Notice in Writing*”.

4.0 CCDC 41 – CCDC INSURANCE REQUIREMENTS

CCDC 41 – CCDC Insurance Requirements is hereby amended as follows and wherever referenced in the *Contract Documents*, it shall be understood that such reference means as amended by these Supplementary Requirements:

- .1 Paragraph 1.: Revise as follows:
 - .1 Delete “\$10,000,000” and replace with “\$5,000,000”.
 - .2 Delete “\$10,000” and replace with “\$5,000”.

5.0 SUPPLEMENTARY SPECIFICATIONS

The Technical Specification Sections of the 2024 Standard Specification for Municipal Services are hereby amended as follows and wherever the Specifications are referred to in the *Contract Documents*, it shall be understood that such reference means as amended by the Supplementary Specifications.

- .1 Delete entirely Section 01 10 00 – General Requirements and replace with the following attached:
 - .1 Section 01 10 01 – General Requirements
- .2 Delete entirely Section 05 50 00 – Metal Fabrications and replace with the following attached:
 - .1 Section 05 50 00 – Metal Fabrications
- .3 Add entirely new:
 - .1 Section 02 41 13 – Selective Demolition
 - .2 Section 05 10 00 – Structural Steel
 - .3 Section 06 10 00 – Rough Carpentry
 - .4 Section 06 15 00 – Wood Decking
 - .5 Section 09 91 14 – Structural Steel Repainting
 - .6 Section 09 91 19 – General Painting
 - .7 Section 26 01 00 – General Electrical Requirements

END OF SECTION

1.0 GENERAL

1.1 Description of Work

- .1 The Work includes, but is not necessarily limited to, the following:
 - .1 The installation and maintenance of hoarding, dust protection and construction signage around the area of work.
 - .2 Temporary disconnection and removal of existing bandstand electrical services.
 - .3 Wholesale removal and disposal of the existing wood decking, and steel deck framing members.
 - .4 Temporary removal, repair and reinstallation of bandstand railings and benches.
 - .5 Cleaning, surface preparation, and recoating of structural steel members.
 - .6 Supply and installation of new pressure-treated and painted wood decking, and H.D.G steel deck framing members.
 - .7 Supply and installation of new pressure-treated and painted wood ramp structure.
 - .8 Supply and installation of new roof ornament.
 - .9 Reinstatement of Bandstand electrical services back to pre-existing conditions.
 - .10 Repair all areas damaged by construction activity; specifically, the contractor shall repair all damage resulting from the construction to the satisfaction of the consultant including all landscaping and site features and finishes.
 - .11 Final cleaning of structure, finishes, etc. and the disposal of all waste products and/or debris generated by the construction activity as well as any material present in the work area prior to the commencement of the work. The areas requiring cleaning shall consist of all areas affected by the work.

1.2 Work Sequence

- .1 Contractor to propose start date with their bid submission.
- .2 Time and time limits stated within Bid submittal and Contract Documents are of the essence to the Contract. Perform work expeditiously and with adequate forces to complete the Contract Work within the time specified.

1.3 Schedule

- .1 In conjunction with and in a form acceptable to the Consultant and Owner, provide within one week of contract award a schedule indicating phasing and procedures required to complete the Work within the submitted time frame.
- .2 Construction schedule shall reflect completion of all work under the Contract within the time specified and in accordance with these Specifications.
- .3 Submit a revised schedule to the Consultant if, after commencing the Work, the schedule fails to reflect actual progress or the Contractor wishes to make a major change to their approach. Submit a revised construction schedule in advance of beginning a revised approach.

1.4 Contractor's Use of Site

- .1 Use of all equipment is to be restricted in accordance with noise by-laws.
- .2 Noise or dust generating work is to be performed between 0700 and 2300, Monday to Friday.
- .3 Contractor has 24-hour access to site.
- .4 Schedule operations to minimize interruption of the normal use of the site and building, and to comply with laws, ordinances, rules, and regulations relating to Work.
- .5 Cenotaph area adjacent to bandstand shall not be impacted by the work and shall remain accessible to the public at all times (unless written approval for closure is granted by the Town). The cenotaph area shall not be used at any time for material or equipment laydown or storage, as a Contractor break area, or impacted by the work.

- .6 Businesses in the area are to remain open, fully accessible, and operational through the Contract. It is the Contractor's responsibility to coordinate with the businesses in the area to ensure construction does not block or impede safe access at all times.
- .7 Confine construction equipment, temporary work, storage of products, waste products and debris, and operations of employees and subcontractors to limits indicated by laws, ordinances, permit, or Contract Documents and do not unreasonably encumber the Place of Work.
- .8 Construction-related debris shall not be permitted to accumulate on site where visible to users. Remove daily if necessary.
- .9 Do not overload the structure.
- .10 Do not close, obstruct, or store materials in roadways, sidewalks, or passageways without prior approval from the Owner. Do not interfere with safe passage to and from businesses and adjacent public sidewalks and roads. Move stored products or equipment that interfere with building operations.
- .11 Take all precautions and provide all required protection to maintain the safety of the general public.
- .12 No storage of materials or equipment is allowed outside designated work areas without Owner approval.
- .13 During transportation of materials or equipment through occupied areas, protect the public, property, and finishes from damage. All damage caused by the Contractor is to be repaired or rectified at the Contractor's expense.
- .14 Arrange all construction access into occupied areas with the Owner to allow the Owner to provide proper notice, where required.
- .15 Maintain work areas and the vicinity clean and tidy to the satisfaction of the Owner and Consultant.
- .16 Obtain and pay for all permits required for completion of the Work, including the Building and Development Permits. Do not start construction until the permits have been issued. Provide copies of permits to Consultant and post on-site where required.

1.5 Temporary Lighting

- .1 Provide and maintain temporary lighting as required for safe demolition and working conditions, in accordance with Nova Scotia Occupational Health and Safety Act.

1.6 Electrical Power

- .1 Discuss available power with the Owner prior to bidding.
- .2 Contractor shall pay for any alternations to the electrical system needed to accommodate the Contractor's equipment. Coordinate any required alterations with the Owner. Reinstate system to its original condition upon completion of the Work.
- .3 Owner will pay for electrical consumption from building sources made available by the Owner.

1.7 Water Supply

- .1 Contractor shall pay for the cost of any temporary water connections or alterations required to perform the Work. Reinstate system to its original condition upon completion of the Work.
- .2 Owner will pay for water consumption from building sources made available by the Owner.

1.8 Sanitary Facilities

- .1 Provide portable washrooms at time of initial mobilization and maintain throughout the course of work where washroom facilities are not available on-site for the Contractor's use. Locate where agreeable to the Owner.

1.9 Traffic Control and Signage

- .1 All impacts to Town roadways shall comply with the NS Temporary Workplace Traffic Control Manual.
- .2 Provide Traffic Management Plan (TMP) to Owner minimum two weeks prior to commencement of the Work. At a minimum, TMP to include time, date, and duration of lane and parking space closures, extent of traffic control equipment and personnel being used, location of signage, laydown areas for site trailers, disposal bins, and portable toilets.

- .3 Provide Pedestrian Management Plan (PMP) to Owner minimum two weeks prior to commencement of the Work. At a minimum, PMP to include time, date and duration of sidewalk and pedestrian area closures, extent of pedestrian control materials being used, and location of signage.
- .4 Provide all signage necessary to protect the public from the construction and work area, control pedestrian and vehicular traffic flow, and to inform users that construction activity is in progress. Signage to be of professional quality to the Consultant's satisfaction.
- .5 Provide flaggers and/ or traffic control lights as necessary to maintain safe traffic flow through work areas.

1.10 Protection of Work and Property

- .1 Take all reasonable precautions necessary to protect the Work and property from damage during performance of the Contract, and rectify any damage to the Work or property caused by the Contractor or its Subcontractors.
- .2 Protect all property from dust and damage. Clean interior areas that require access outside of working hours at the end of each work shift to provide a functional environment for the user.
- .3 Contain dust, dirt, construction debris, water, and fumes from the Work so as to not affect areas remaining in operation outside designated work areas. Damage to all property, mechanical equipment, motors, elevator equipment, fixtures, air intakes, etc. resulting from contamination is the responsibility of the Contractor.
- .4 Provide protection for all entrance and exit-ways, floors, walls, standing fixtures, air intakes, and equipment rooms.
- .5 Patch and repair all finishes or painted surfaces damaged during the course of the Work, including surfaces damaged by tape, fasteners, or similar materials during hoarding and protection.

1.11 Construction Barriers and Enclosures

- .1 All work areas are to be enclosed by hoarding and dust protection and only accessible to the Contractor, Owner, and Consultant.
- .2 Supply and construct hoarding, barriers, and enclosures as indicated in these Specifications, on Drawings, and as directed by the Consultant or Owner as construction progresses.

- .3 No extras will be entertained for hoarding, barriers, and enclosures after bid closing unless the scope of work significantly changes.
- .4 The following types of enclosures / hoarding systems will be required for this construction project:
 - .1 Type 1 – Full Height Dust Protection

This system consists of full height poly-weave tarping fastened bottom and top with 2x4 construction grade wood nailers wedged tight and 2x4 studs or post shores at 4'-0" c.c. Seams of poly-weave tarping, if any, are to be fastened together with duct tape.

 - .1 The main purpose of this system is to control dust and keep it from escaping from work area, thus it must be dust tight.
 - .2 This system shall be supplied to enclose all areas of work during abrasive blasting, dust-generating activities, and recoating (if spray-applied).
 - .2 Type 2 - Fast Fence

This system consists of 6'-0" high modular "fast fencing" secured to the ground surface with counterweights, both sufficient to prevent the overturning of fencing due to wind, or forceful entry. Poly-weave mesh shall be securely fastened to the fencing (full height) to prevent dust from exiting the work area.

 - .1 Main purpose of this system is to delineate the work area from the rest of the pedestrian area and limit airborne dust from exiting work site.
 - .3 Type 3 – Hi-Vis Barricades and Reflective Traffic Cones

To be installed around the work areas to control flow of pedestrian traffic.

 - .1 The main purpose of this system is to delineate the areas of work from the rest of the pedestrian area.
- .5 Restrict access for unauthorized personnel by placing barricades or posting guards around areas of the Work. Unauthorized personnel means the public and anyone not directly involved with execution, supervision, or inspection.

1.12 Protection of Existing Exposed Facilities / Services

- .1 Protect exposed conduit, fixtures, attached devices, wet sprinkler fire system plumbing, mechanical system components, louvers, and ducts or correct damages at own expense. Promptly report any damage to the Owner and Consultant.
- .2 Prior to commencing the Work, contact the Owner to locate all protective or alarm systems and sensors. Protect services against damage or interruption. Provide Owner with 48 hours minimum advance notice of any necessary interruption. All claims resulting from damage are the responsibility of the Contractor.
- .3 Restore landscaping beds in area of work to their original plantable state after Work is complete. If required, Owner will arrange to remove all landscaping, including plants, shrubs, trees, etc., impacted by the work and store for replanting.

1.13 Walk-Through Inspection of Site

- .1 Perform a thorough inspection of the site prior to the start of Work, and provide a written notice to the Consultant detailing all damaged property as well as all items that appear to be of poor working order or appearance (i.e. sign fixtures, dirt, etc.)
- .2 Upon receiving this notice, the Consultant and Owner will verify the validity of the items listed.
- .3 If written notice is not given within five days of commencement of Work, it will be assumed the Contractor reviewed the site and accepted the condition of the property as being free of damage.
- .4 Any damages not listed as part of the written notice of clause 1.13.1 above, found after completion of the Work will be the Contractor's responsibility to rectify. Complete rectifications in a timely and satisfactory manner.

1.14 The Work, Work In Progress, Property, and Persons

- .1 Protect the Work during construction from damage by weather.
- .2 Provide protection as required to protect work in progress and other property from damage and to provide suitable conditions for the progress of finishing work.

- .3 Take reasonable and required measures, including those required by authorities having jurisdiction, to protect the public and those employed on the Work from bodily harm.
- .4 Comply with requirements of the Nova Scotia Occupational Health and Safety Act and Regulations for Construction Projects.
- .5 Be prepared to provide respirators, dust protection, ear protection, hard hats, etc. for those employed by the Consultant and Owner on-site.
- .6 Direct all Subcontractors to protect their own work, existing property, adjacent public and private property, and work of other Sections from damage while working.

1.15 Location of Existing Utilities

- .1 Locate all existing utilities prior to construction and protect them during construction.

1.16 Work Site Safety – Contractor is “Prime Contractor”

- .1 Contractor shall, for the purposes of the Nova Scotia Occupational Health and Safety Act, and for the duration of the Work and Contract:
 - .1 Be designated as “Prime Contractor” pertaining to safety at the “Work site”.
 - .2 Do everything reasonably practicable to establish and maintain a system or process for compliance with the Act and its regulations, as required to maintain the health and safety of all persons at the “Work site”.
- .2 Direct all subcontractors, workers, and any other persons at the “Work site” on safety related matters, to the extent required to fulfill its “Prime Contractor” responsibilities pursuant to the Act.

1.17 Material and Equipment

- .1 Unless otherwise specified, provide, maintain, and pay for all materials, tools, machinery, equipment, temporary facilities, controls, and conveniences necessary for execution of the Work. All materials shall be new, of merchantable quality, and suitable for the intended purpose.

- .2 Unless otherwise specified, comply with manufacturer's latest printed instructions for materials and installation methods. Notify the Consultant in writing of any conflict between Contract Documents and manufacturer's instructions. Deliver, store, and maintain packaged materials with manufacturer's seals and labels intact.

1.18 Coordination

- .1 Contractor is responsible for coordination of trades. Lines of demarcation between Contractor's work and trades' work are sole responsibility of the Contractor. Consultant assumes no responsibility for division of the Work or for any jurisdiction regarding such division.
- .2 Contractor is responsible for coordinating with the Owner, surrounding businesses and other stakeholders for on-site activity as it affects access around the site, day-to-day operations of the businesses, and overall impact on vehicle and pedestrian traffic.
- .3 Notify the Consultant at least 24 hours in advance for site review. No work shall be covered or concealed until the Consultant has reviewed it, unless informed by Consultant that a site review will not be performed. Such review does not absolve the Contractor from their responsibility to perform the Work in accordance with Contract Documents.

1.19 Cutting and Remedial Work

- .1 Perform cutting and remedial work required to make affected parts of the Work come together properly.
- .2 Coordinate the Work so that cutting and remedial work are kept to a minimum.
- .3 Cutting and remedial work shall be performed by specialists familiar with the Products affected and in a manner that neither damages nor endangers the Work.

1.20 Waste Removal and Cleaning

- .1 Maintain the Place of the Work free from unsightly or hazardous accumulations of waste materials and rubbish, and perform all required cleaning during the Work.
- .2 Provide on-site containers for collection of waste materials and rubbish.
- .3 Remove wastes that create hazardous conditions from the premises daily.

- .4 Dispose of waste products in strict accordance with product manufacturer Safety Data Sheets (SDS) and provincial waste control regulations. Drainage systems shall not be used to dispose of project wastes and materials.
- .5 Remove moisture sensitive equipment (i.e. exposed electrical and mechanical systems, etc.) or protect against moisture infiltration during washing and dust-generating activities.
- .6 Remove all construction-related grease, dust, dirt, stains, labels, fingerprints, over-spray, and other foreign materials immediately prior to Consultant's final review. Return all adjacent areas, equipment, duct work, etc. to the Owner in a dust-free condition. Leave site in a neat and tidy condition at completion of the Work.

1.21 Superintendence

- .1 Provide a full time on-site Superintendent who is responsible for quality, control, organization, and coordination of the Work.
- .2 Superintendent shall attend all site meetings.
- .3 Superintendent shall have a cell phone.
- .4 Superintendence shall be satisfactory to the Owner and Consultant.
- .5 Superintendence shall be deemed unsatisfactory and changes or additions to superintendence can be demanded by the Owner or Consultant when control, organization, or coordination of the Work is not adequate, quality of the Work does not meet Contract Document requirements, directions given in accordance with Contract Documents are not followed, or progress is behind schedule.

1.22 Administration of Project Meetings

- .1 Consultant will preside at meetings.
 - .1 A representative of the Consultant will record minutes, including significant proceedings and decisions, and identifying "action by" parties.
 - .2 Consultant will reproduce and distribute copies of minutes to the Owner, Contractor, meeting participants, and affected parties not in attendance.

- .2 Consultant will schedule and administer project meetings.
 - .1 Prepare agenda for meetings.
 - .2 Distribute written notice of each unscheduled meeting three days in advance of meeting date to the Contractor, Owner, and relevant Subcontractors.
- .3 Contractor shall provide physical space and make arrangements for meetings on site.
- .4 Representatives of Contractor, Subcontractors, and suppliers attending meetings shall be qualified and authorized to act on behalf of the party each represents.

1.23 Pre-Construction Meeting

- .1 After award of Contract, a meeting of all parties in the Contract shall be held to discuss and resolve administrative procedures and responsibilities.
- .2 Representatives of the Owner, Consultant, Contractor, major Subcontractors, and construction review personnel will attend.
- .3 Consultant will establish a time and location for the meeting and notify concerned parties at least five days before the meeting.
- .4 Agenda to include the following:
 - .1 Appointment of official representatives of participants of the Work.
 - .2 Schedule of Work, progress scheduling.
 - .3 Shop drawings (if required) and schedule of shop drawing submissions.
 - .4 Requirements of temporary facilities, site signage, hoarding, dust protection, offices, storage sheds, utilities, fences.
 - .5 Delivery schedule of critical equipment.
 - .6 Site security.
 - .7 Contemplated change orders, procedures, approvals required.
 - .8 Take over procedures, acceptance, warranties.
 - .9 Monthly progress claims, administrative procedures, holdbacks.

.10 Appointment of inspection and testing agencies or firms.

.11 Insurance, transcript of policies.

1.24 Progress Meeting

.1 During course of Work, the Consultant may schedule progress meetings. Further progress meetings may be scheduled by the Consultant, Contractor, or Owner as required to expedite the Work.

.2 Consultant, Contractor, major Subcontractors involved in the Work, and Owner, when required, will attend.

.3 Consultant will notify parties minimum three days prior to scheduled meetings of any changes to time or place.

.4 Agenda to include the following:

.1 Review, approval of minutes of previous meeting.

.2 Review of Work progress since previous meeting.

.3 Field observations, problems that impede construction schedule, conflicts.

.4 Progress, schedule, during succeeding work period.

.5 Corrective measures and procedures to regain projected schedule.

.6 Revisions to construction schedule.

.7 Review of off-site fabrication delivery schedules.

.8 Review submittal schedules; expedite as required.

.9 Maintenance of quality standards.

.10 Pending changes and substitutions, Notices of Proposed Change, Change Orders.

.11 Review proposed changes for effect on construction schedule and on completion date.

.12 Other business.

END OF SECTION

1.0 GENERAL

1.1 Work Included

- .1 Installation of hoarding/dust protection and shoring around the Work as indicated on phasing drawings in accordance with Section 01 10 01.
- .2 Provide all labour, material, equipment, and supervision required to remove and dispose of all material and debris resulting from removal of:
 - .1 Wholesale removal and disposal of existing wood decking, trim boards and all associated fasteners and hardware.
 - .2 Wholesale removal and disposal of existing structural steel deck framing.
 - .3 Wholesale removal and disposal of wood stairs and platforms at entrance of bandstand to accommodate the new ramp. Existing sonotube foundations to be reused if condition is found acceptable by the Consultant.
- .3 Cutting and remedial work required to make the affected parts of the Work come together properly.

2.0 PRODUCTS

Not applicable.

3.0 EXECUTION

3.1 Inspection

- .1 Visit and examine the site and note all characteristics and features affecting the Work of this Section.
- .2 Properly identify all services, whether buried, built-in, or exposed, as to position, type of service, size, and direction of flow.
- .3 Inspect materials, equipment, and components to be re-used or turned over to the Owner. Note their condition and advise the Consultant in writing of any defects or conditions that would affect their removal and re-use.

3.2 Preparation

- .1 Prevent movement, settlement, or damage of elements of existing building that are to remain. Provide bracing, shoring, and supports as required. Protect existing surfaces not to be restored from damage during removal procedures.
- .2 Cut and/or cap existing services within the work area, if any, prior to start of Work as required, but do not affect services of areas not under construction or essential to on-going operation of the building.
- .3 In all cases, exercise reasonable care during removal operations to avoid damaging items to be salvaged, re-used, or items that are not part of the Work.
- .4 Seal off work areas to prevent dust and debris from affecting other areas outside of work area. Prevent public access to areas being repaired.
- .5 Tape and/or seal and provide protection to all mechanical and electrical services and all fire alarm and security devices still functioning adjacent to work areas to prevent damage resulting from dust, water, or impact.
- .6 Cover drains as required to prevent any construction-related materials and debris from entering the drains. Ensure that all drains continue to operate as required during construction.
- .7 Remove or protect in place all surface-mounted or permanent fixtures not to be demolished from damage during demolition procedure.
- .8 Apply filter cloth to all exhaust and ventilation vents within work area to prevent dust generated by construction activity from escaping.
 - .1 Clean or replace filter cloth if filter cloth becomes unsuitably dirty as determined by Consultant.
- .9 Provide proposed demolition sequence for Consultant review prior to commencing work.
- .10 Provide temporary lighting and ventilation as required to work areas. Owner to provide 110 volt, 220 amp service to work area for Contractor's use.

- .11 Provide temporary bracing for base structure as required during the Work.
- .12 Submit details of proposed bracing for Consultant review prior to commencing work.
 - .1 Details to be designed and stamped by Registered Professional Engineer in Province of Nova Scotia.

3.3 Demolition

- .1 Remove and dispose of material and debris resulting from the demolition of wood decking and structural steel.
- .2 Demolition procedures and equipment shall meet all applicable noise control by-laws and regulations at the Place of the Work.
- .3 Take care not to damage the site fixtures and finishes that are to remain. Where any such damage is done, it is to be repaired by Contractor at their own expense to Consultant's approval.
- .4 All required re-painting due to damage overspray, etc. is Contractor's responsibility.
- .5 At end of each day's work, leave work in safe condition so that no part is in danger of causing injury or damage.

3.4 Cutting and Remedial Work

- .1 Perform cutting and remedial work required to make affected parts of the Work come together properly and complete the Work.
- .2 Coordinate and perform the Work so that cutting and remedial work is kept to a minimum.
- .3 Perform cutting by methods to avoid damage to other work.
- .4 Provide proper surfaces to receive patching, remedial work, and finishing.
- .5 Cutting and remedial work shall be performed by competent and qualified specialists familiar with the Products affected and in a manner that neither damages nor endangers the Work.
- .6 Ensure that cutting and remedial work does not jeopardize manufacturers' warranties.

3.5 Waste Disposal

- .1 Dispose of waste products and material in strict accordance with product manufacturer's material safety data sheets and governing waste control regulations.
- .2 Existing drainage system is not to be used to dispose of project wastes and/or materials.
- .3 Store volatile wastes or material in covered metal containers. Remove wastes that create hazardous conditions from premises daily.

END OF SECTION

1.0 GENERAL

1.1 Work Included

- .1 Provide all labour, materials, equipment, and services to supply and erect structural steel where indicated on the drawings and specified herein:

1.2 Reference Standards

- .1 All referenced Standards are latest editions referenced by the Building Code in the Place of the Work, or latest editions if not referenced by Code.
- .2 National Building Code of Canada
- .3 CSA S16 Design of Steel Structures
- .4 CSA S136 North American Specification for the Design of Cold-Formed Steel Structural Members
- .5 CSA W47.1 Certification of Companies for Fusion Welding of Steel Structures
- .6 CSA W59 Welded Steel Construction (Metal-Arc Welding)
- .7 CSA G40.20/G40.21 General Requirements for Rolled or Welded Structural Quality Steel / Structural Quality Steel

1.3 Qualifications

- .1 Structural steel fabricator shall have not less than five years experience in the fabrication of structural steel.
- .2 Erector shall have not less than five years experience in erection of structural steel.
- .3 Steel fabricators and erectors must be certified under the requirements of CSA W47.1 as required by CSA S16.
- .4 Welding procedures, welders, and welding operations shall be qualified in accordance with the Canadian Welding Bureau Standards.
- .5 All connections shall be designed by a CISC-approved Fabricator unless otherwise noted.

1.4 Examination

- .1 All dimensions taken from the Drawings are to be confirmed on site prior to fabrication. Contractor is to be responsible for the correctness of such measurements and report to the Consultant in writing all discrepancies between measurements at building and those shown on drawings prior to commencing work. Verify location of anchor bolts and embedded steel and ensure that work prepared by other trades is at a proper elevation, on-line, level, and true.
- .2 Contractor to locate all mechanical/electrical openings required in structural members for existing systems prior to fabrication.
- .3 Contractor responsible for all costs associated with site location of existing strands and embedded conduits.

1.5 Shop Drawings

- .1 Drawings, which accompany these specifications, are to be used for estimating purposes only, and show in general the type of construction that shall be followed, but must not be considered as fabrication drawings.
- .2 Submit detailed erection and shop drawings prepared under the supervision of a Registered Professional Engineer in accordance with the General Requirements. Where pre-engineered or fabricator designed elements are part of the shop drawings, the shop drawings shall be stamped by a Professional Engineer licensed in Nova Scotia.
- .3 The shop drawings shall clearly show all shop and erection details, including cuts, copes, connections, holes, threaded fasteners, splices, and welds. All welds, both shop and field, shall be indicated by AWS welding Symbols as specified in CSA W59 Appendix D and E.
- .4 Shop drawings shall be submitted in an orderly sequence and sufficiently in advance of the work proceeding so as to not affect the schedule of the Work. The Contractor and the Consultant shall jointly determine the schedule for which the shop drawing submissions shall occur.
- .5 The Consultant's review of the shop drawings is for general conformance only and does not relieve the Contractor of the responsibility for errors or omissions that may be present in the shop drawings.
- .6 Upon request by the Consultant, the Contractor shall revise and resubmit the shop drawings.

- .7 Provide setting drawings, templates and directions for the installation of anchor bolts, plates and other devices.
- .8 Structural drawings are not prepared to be used in sepia form as erection drawings.
- .9 Shop drawings shall show complete details necessary for fabrication and erection of the component parts of the structure, including location, type, size and extent of all welds, as well as all mechanical/electrical openings required. Splices not shown on the shop drawings will not be accepted.
- .10 Prior to starting erection work, submit a description of the methods, sequence of erection and type of equipment proposed for use in erecting structural steel.

1.6 Inspection and Testing

- .1 At the discretion of the Consultant, the services of a welding Engineer and/or testing agency may be employed for inspection purposes. Costs associated with inspection and or testing will be paid for out of the Materials Testing Allowance.
- .2 Allow free access to all parts of the work area for the purposes of inspection at all times.
- .3 Prior to commencement of work, provide a schedule of shop fabrication.
- .4 Submit certified results of testing in accordance with CSA G40.20 properly correlated to the elements being fabricated.
- .5 High tensile bolts will be tested in accordance with Section 23 of CSA S16.
- .6 For the purpose of bidding, assume all welds will be examined by a non-destructive testing method.
- .7 Testing of all connections and splices not indicated on the design drawings shall be undertaken by the Owner's testing agency and will be to the Contractor's account.
- .8 The Contractor shall advise the testing agency of the scheduling of all shop and field work pertaining to this Project. The Contractor shall permit the testing agency full access to the fabrication shop and the site for the purpose of carrying out their work and he shall provide assistance required to aid in the performance of the inspection and testing.

- .9 If more than 5% re-inspection is required due to faulty workmanship, the Contractor will be required to pay for this re-inspection at no additional cost to the Owner.
- .10 The Engineer may reject at any time during the progress of the work a piece of material for any member found defective or not in accordance with the detailed drawings. This material may be rejected notwithstanding any previous acceptance and components so rejected shall be replaced at no expense to the Owner. In case of dispute, the decision of the Engineer shall be final.

1.7 Storage and Handling

- .1 The Contractor shall be responsible for the protection of all steel work during fabrication, shipping, storage, and construction. All small bends and damage shall be reported to the Engineer for instruction. Steel work that is bent, broken, or otherwise damaged shall be replaced by the Contractor prior to erection, to the satisfaction of the Engineer, at no cost to the Owner.
- .2 The Contractor shall be responsible for proper scheduling of delivery and erection for the structural steel, all in accordance with the construction schedule.
- .3 Structural steel members shall be stored at the site above ground on platforms, skids, or other devices.
- .4 Steel shall be protected from corrosion.
- .5 Other material shall be stored in a weather tight and dry place until ready for use in the Work.
- .6 Package materials shall be stored in their original unbroken packages or container.

1.8 Supply of Alternate Products

- .1 Should the rolled sections shown on the drawings not be procurable from Canadian Mills, or should substitution for those sections be desired, sections of equivalent strength may be substituted if approved by the Consultant. In each case, full particulars thereof must be submitted prior to the closing of Bid. Material substitutions after the closing of Bid, if accepted, will be at the Contractor's cost.

1.9 Coordination with Other Trades

- .1 Supply all necessary instructions and drawings to other trades for setting bearing plates, anchor bolts, and other members that are built in with the work of other trades. Supply the necessary material in accordance to the construction schedule.

2.0 PRODUCTS

2.1 Materials

- .1 In accordance with Section 05 50 00.

2.2 Design

- .1 All connections shall be designed by the fabricator to the reference standards unless otherwise noted.

3.0 EXECUTION

3.1 Fabrication

- .1 Verify all dimensions and take necessary field measurements before fabrication.
- .2 All fabrication shall be to CSA S16.
- .3 All welding shall be to CSA W59.
- .4 All fabricated units shall be straight and true and without sharp kinks or bends.
- .5 All plates and shapes shall be inspected visually for laminations. Repair plates or shapes that contain laminations in a manner approved by the Consultant.
- .6 Provide punched holes for the convenience of other trades in attaching wood blocking or other materials. Coordinate with drawings of other disciplines for location and details.
- .7 Obtain Consultant's approval for holes required through structural steel that are not shown on the drawings.

3.2 Columns and Bases

- .1 All flame cut steel columns shall have their ends milled. Steel base plates supporting columns shall be flat.
- .2 Base plates and cap plates are to be seal welded to HSS columns.

3.3 Connections

- .1 Use connections of type and detail shown on the Drawings. Modifications to the specified connection types and details will not be permitted without prior approval from the Consultant.
- .2 Connections designed by the fabricator shall be in accordance with CSA S16.1 and stamped and sealed by a Professional Engineer registered in the Province of Nova Scotia.
- .3 All connections shall be designed to carry the loads specified on the Drawings. If loads are not given, the connection shall have the capacity not less than the members being connected.
- .4 Structural steel members spliced for ease of fabrication or transportation shall have splices designed to develop the full strength and stiffness of the member. Splices shall be subject to non-destructive testing as directed by the Consultant. The cost for such testing shall be borne by the Contractor.
- .5 Use standard connection types where possible.
- .6 Provide stiffeners in beam webs at all locations of beam continuity. Unless noted otherwise web stiffeners shall be 1/2" minimum.
- .7 Tighten all bolted connections using turn-of-nut method.

3.4 Erection

- .1 Install all temporary bracing that is required to stabilize the work against wind and construction loads. Keep structure true and plumb until completion of the building.
- .2 As erection progresses, the work shall be securely bolted up to take care of all dead loads, wind, and erection stresses. Any failure to make proper and adequate provisions for stresses during erection shall be solely the responsibility of the Contractor.
- .3 The structural steel erector shall be responsible for the design of all hooks, erection connections, and handling gear.

- .4 Whenever piles of materials, erection equipment, or other loads are carried during erection, proper provision shall be made to take care of stresses resulting from it.
- .5 All structural steel shall be assembled and erected in accordance with the approved erection drawings and specified reference standards.
- .6 Structural steel work shall be carefully located at the proper grade and rigidly secured in place using steel shims. All spaces under the steel shall then be filled with non-shrink pre-mix grout.
- .7 Plumb, level, and align individual members of steel work as specified in CSA S16.
- .8 Structural steel frames shall be accurately assembled to the lines and elevations indicated within the specified tolerances.
- .9 The various members forming parts of complete frame of structure after being assembled shall be aligned and adjusted accurately before being fastened.
- .10 Bearing surfaces and surfaces that will be in permanent contact shall be cleaned before the members are assembled.
- .11 Temporary bolts, clips, angles, etc. used to facilitate the erection shall be removed unless noted otherwise on the drawing.

3.5 Temporary Flooring

- .1 Provide all temporary flooring, planking, and scaffolding necessary in connection with erection of structural steel, or support of erection machinery in accordance with governing regulations or by-laws.

3.6 Completion

- .1 The Registered Professional Engineer responsible for the shop drawings, or their representative shall visit to review in place connections and components designed by that Registered Professional Engineer as required to substantiate compliance with their sealed shop drawings. He shall then submit a letter of compliance provide a seal and signed letter to the Consultant and Engineer.
- .2 On completion of the work of this section, all protection erected in conjunction with the structural steel work shall be removed, all damage to this work and adjoining work shall be made good, and all surplus materials, debris, tools, and equipment shall be removed from the site.

3.7 Welding

- .1 All welding shall be done by the shielded metal-arc method in accordance with the requirements CSA W59. The welding operators shall have passed, within the preceding six months, the qualifications test as set forth in CSA W47.1.
- .2 Submit welding procedures prepared and sealed by a Professional Engineer registered in Nova Scotia and familiar with this discipline to the Consultant for their examination and comments.
- .3 Surface to be welded shall be free from loose scale, rust, paint, or other foreign matter. Where weld material is deposited in two or more layers, each layer shall be cleaned before the next layer is deposited. Take care to minimize stresses due to heat expansion, contraction, and distortion by using proper sequence in welding and by approved methods.
- .4 Welding consumables for all processes shall be fully approved by the Canadian Welding Bureau and certified by the manufactures as complying with the requirement of this specification. Such certificates shall be not more than two years old.
- .5 Electrode strengths to be equal to E480XX (E70xx) or better.

3.8 Field Quality Control

- .1 Structural steel work (material and workmanship) shall be subject to review and tested by a testing agency retained by the Owner.
- .2 Construction review by the testing agency or the Consultant does not relieve the Contractor of their responsibility to furnish materials and workmanship in accordance with the Drawings and Specifications.

END OF SECTION

1.0 GENERAL

1.1 Reference Standards

- .1 All referenced Standards are latest editions referenced by the Building Code in the Place of the Work, or latest editions if not referenced by Code.
- .2 National Building Code of Canada
- .3 ASTM A53/A53M Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless
- .4 CSA G40.20/G40.21 General Requirements for Rolled or Welded Structural Quality Steel / Structural Quality Steel
- .5 CSA G164 Hot Dip Galvanizing of Irregularly Shaped Articles
- .6 CSA S16 Design of Steel Structures
- .7 CSA W48 Filler Metals and Allied Materials for Metal Arc Welding
- .8 CSA W59 Welded Steel Construction (Metal-Arc Welding)

1.2 Design Criteria

- .1 Design is based on Limit States Design principles using factored loads and resistances.
- .2 Loads and load factors are determined in accordance with the referenced Building Code and bylaws of the local municipality.
- .3 Resistances and resistance factors are determined in accordance with the National Building Code and CSA S136.
- .4 Conform to the requirements of specified fire rated assemblies.
- .5 Install components or assemblies to accommodate specified erection tolerances of the structure.

- .6 Work of this Section that will support other items or will be required to support structural loads of any nature shall be designed by a Professional Structural Engineer registered in Nova Scotia who shall affix their professional seal and signature to the shop drawings for such items.

1.3 Submittals

- .1 Submittals to be made in accordance with Section 05 10 00.
- .2 If requested, submit three certified copies of mill reports covering chemical and mechanical properties, and coating designation of steel used in this work.
- .3 Submit samples of framing and fastener components to Consultant if requested.
- .4 Product Data
 - .1 Submit product data for mechanical fasteners, indicating sizes, shear, and pull-over loading capacity where applicable. Provide data indicating thickness and type of corrosion protection coating.
- .5 Shop Drawings:
 - .1 Submit shop drawings indicating materials, core thickness, finishes, connections, joints, methods of anchorage, number of anchors, supports, reinforcement, details, and accessories.
- .6 Submit evidence of welder qualifications specified in this Section.

1.4 Quality Assurance

- .1 Welding shall be by company certified by the Canadian Welding Bureau to CSA W47.1.

1.5 Delivery, Storage, and Handling

- .1 Deliver and store material undamaged in original wrapping or containers, with manufacturer's labels intact.
- .2 Prevent damage to materials during handling and storage. Any damaged materials will be rejected by the Consultant.

1.6 Site Conditions

- .1 Maintain temperature and ventilation conditions for various components and materials of the system, as required by manufacturer.
- .2 Protect work of other sections and sub-trades from damage resulting from work of this section.
- .3 Take necessary care to avoid damage of adjacent surfaces.
- .4 Examine the underlying visible surfaces and adjoining work, and report defects at time of installation that might impair the work of this section to the Consultant, in writing.
- .5 Commencement of work implies acceptance of surfaces.
- .6 Cooperate with other trades to accommodate fixtures and attachments in the system.

1.7 Inspection

- .1 The Design Engineer responsible for the production of the shop drawings shall provide periodic field review during construction and submit reports to the Consultant.
- .2 Additional inspection and testing of materials workmanship shall be carried out by a qualified independent Inspection Agency appointed by the Consultant.
 - .1 The cost of this additional inspection shall be paid by the Owner.
 - .2 Any testing or inspection required by the Consultant because of an error by the Contractor, or due to departure from the contract documents by the Contractor, shall be paid for by the Contractor.
- .3 Inspection shall include:
 - .1 Checking that mill test reports are properly correlated to materials.
 - .2 Sampling fabrication and erection procedures for general conformity to the requirements of the specification.
 - .3 Checking that the welding conforms to the requirements of this specification.
 - .4 Checking fabricated members against specified member shapes.

- .5 Visual inspection of all welded connections including sample checking of joint preparation and fit-up.
 - .6 Sample checking of screwed and bolted joints.
 - .7 Sample checking that tolerances are not exceeded during fit-up or erection.
 - .8 Additional inspection and testing of welded connections as required by CSA W59.
 - .9 General inspection of field cutting and alterations required by other trades.
 - .10 Submission of reports to the Consultant, Contractor, and authorities having jurisdiction covering the work inspected with details of deficiencies discovered.
- .4 The Contractor shall provide the necessary cooperation for the inspection to proceed.
 - .5 The inspection provided in this section does not relieve the Contractor of their responsibility for the performance of the contract. The Contractor is solely responsible for quality control and shall implement their own supervisory and quality control procedures.
 - .6 Materials or workmanship not conforming to the requirements of the contract documents may be rejected at any time during the progress or work.

2.0 PRODUCTS

2.1 Materials

- .1 Steel Sections and Plates: To CSA G40.21, Grade 350W, hot dipped galvanized.
- .2 Steel Angles: To CSA G40.21, 300W, hot dipped galvanized.
- .3 Welding Materials: To CSA W59.
- .4 Welding Electrodes: To CSA W48 Series.
- .5 Bolts and Anchor Bolts: To ASTM A325.

2.2 Fabrication

- .1 Fabricate work square, true, straight, and accurate to required size, with joints fitted closely and secured properly.
- .2 Fabricate items from steel and use galvanized steel unless indicated otherwise.
- .3 Where possible, fit and shop assemble items ready for erection.
- .4 Exposed joints and connections shall be tight, flush, and smooth unless otherwise indicated.
- .5 Where work of other Sections is to be attached to work of this Section, prepare work by drilling and tapping holes as required to facilitate installation of such work.
- .6 Exposed welds are to be continuous and nonporous for length of each joint. File or grind exposed welds smooth and flush.
- .7 Insulate contact surface to prevent electrolysis due to metal-to-metal contact or between metal and masonry or concrete. Use bituminous paint, butyl tape, building paper, or other approved means.

2.3 Anchoring Devices

- .1 Bolts and Nuts: To ASTM A325, sizing by fabricator responsible for connection design, with large flat-type steel washers sized to suit fasteners, hot-dip galvanized.

2.4 Framing Connection

- .1 Welding Electrodes: Minimum tensile strength series of 480 MPa, suitable for material being welded.

2.5 Surface Preparation

- .1 Thoroughly clean and suitably pre-treat steel prior to finishing in accordance with CSA G164.
- .2 Remove loose mill scale, rust, oil, grease, dirt, and other foreign matter.
- .3 Grind smooth sharp projections.

2.6 Steel Finishes

- .1 Galvanizing: Hot-dipped galvanizing with zinc coating 600 g/sq. m to CSA G164.

3.0 EXECUTION

3.1 General

- .1 Fabrication and erection shall conform to shop drawings. Modifications required to accommodate as-built conditions, other than minor dimensional changes, must be submitted for approval.

3.2 Erection

- .1 Erect items square, plumb, straight, and true, fitted accurately, with tight joints and intersections.
- .2 Make all field measurements necessary for the proper fit of all members.
- .3 Provide suitable means of anchorage acceptable to the Consultant by dowels, anchor clips, bar anchors, expansion bolts and shields, toggles.
- .4 Exposed fastening devices to match finish and be compatible with material through which they pass.
- .5 Make field connections with high tensile bolts to CSA S16 or weld.
- .6 Welding to be in accordance with CSA W59 as follows:
 - .1 Companies engaged in welding shall be certified by the Canadian Welding Bureau to CSA W47.1. Companies shall have welding procedures approved and welders qualified for the base material types and thicknesses that are to be welded.
 - .2 For material less than 3.0 mm thick, shop drawings may show nominal weld leg sizes. For such material, the effective throats of welds shall not be less than the thickness of the thinnest connected part.

3.3 Touch Up and Cleaning

- .1 Touch-up field welds, field drilled bolt holes, and burnt or scratched surfaces after completion of erection in accordance using ASTM A780/780M.

END OF SECTION

1.0 GENERAL

1.1 Reference Standards

- .1 All referenced Standards are latest editions referenced by the Building Code in the Place of the Work, or latest editions if not referenced by Code.
- .2 National Building Code of Canada
- .3 CSA O80 Series Wood Preservation
- .4 CSA O141 Softwood Lumber
- .5 CSA O121 Douglas Fir Plywood
- .6 CSA O151 Canadian Softwood Plywood
- .7 CSA O153 Poplar Plywood
- .8 CSA O325 Construction Sheathing
- .9 CAN/CSA O437 Series Standard on OSB and Waferboard
- .10 CSA B111 Wire Nails, Spikes and Staples (Withdrawn)
- .11 National Lumber Grade Authority (NLGA) Standard Grading Rules for Canadian Lumber

1.2 Submittals

- .1 For products treated with preservative by vacuum-pressure impregnation, submit following information certified by authorized signing officer of treatment plant:
 - .1 Information listed in AWWA M2 and revisions specified in CAN/CSA 080 Series, Supplementary Requirement to AWWA M2 applicable to specified treatment.
 - .2 Moisture content after drying following treatment with water-borne preservative.
- .2 Submit product data for double hot-dipped galvanized nails confirming compliance with ASTM A153.

1.3 Installer Qualifications

- .1 Maintain a qualified crew of carpenters for the work of this Section. Only qualified journeymen shall be engaged in framing and each journeyman shall have a Certificate of Proficiency.

1.4 Delivery, Storage, and Handling

- .1 Protect materials from moisture upon delivery.
- .2 Store materials on raised supports. Cover materials with waterproof covering. Provide adequate air circulation and ventilation.
- .3 Do not store seasoned materials in wet or damp areas.
- .4 Store all materials in a dry environment. Do not cover materials having a moisture content of over 15%.

2.0 PRODUCTS

2.1 Lumber Materials

- .1 Lumber: Except as otherwise specified, lumber shall be softwood, S-P-F, S4S, kiln-dried, moisture content 15% or less, not finger jointed, and in accordance with the following standards:
 - .1 CSA O141.
 - .2 Graded and stamped in accordance with the NLGA Standard Grading Rules for Canadian Lumber and by an agency certified by Canadian Lumber Standards Accreditation Board.
- .2 Furring, Blocking, Strapping, Nailing Strips, Grounds, Rough Bucks: S-DRY, Douglas fir species.
 - .1 Board Sizes: “Standard” grade to NLGA, Paragraph 114c.
 - .2 Dimension Sizes: “Standard” grade to NLGA, Paragraph 122c.
- .3 Roofing Curbs, Nailers, Blocking, Cants: As specified in 2.1.2 above.
- .4 Wood Trim: Kiln-dried spruce, comb-faced fascia material.

2.2 Fasteners

- .1 Nail, Spikes, and Staples: To CSA B111 and as follows:
 - .1 Use common spiral nails and spiral spikes, except where specified otherwise, for interior work.
 - .2 Fasteners in Contact with Borate-Treated Lumber: Hot-dipped galvanized finished steel.
 - .3 Fasteners in Contact with ACQ-Treated Lumber: Stainless steel.
- .2 Bolt, Nut, Washer, Screw and Pin Type Fasteners: Hot-dipped galvanized finished steel for all fasteners in contact with borate-treated lumber or stainless steel for all fasteners in contact with ACQ-treated lumber, unless specified otherwise.
- .3 Joist Hangers: Hot-dipped galvanized finished steel for all hangers, plates, straps, etc. in contact with borate-treated lumber or stainless steel for all such connectors in contact with ACQ-treated lumber.
- .4 Do not combine stainless steel fasteners with galvanized hardware or vice-versa.

2.3 Preservative Treatment

- .1 Treat following items in accordance with applicable CSA O80 commodity standard using alkaline copper quaternary type C (ACQ-C) or copper azole type B (CA-B) preservative to obtain minimum net retention of 4.0 kg/cu. m of wood. Materials shall be kiln-dried after treatment.
 - .1 All dimension lumber directly exposed to moisture (i.e. deck boards, ramp framing etc.).
- .2 Inspection of products treated with preservative by vacuum-pressure impregnation will be carried out by an accredited inspection agency of the Canadian Wood Preservers Bureau (CWPB).
- .3 All treated lumber and plywood shall bear an identifying stamp in accordance with the CWPB, CSA O80, or AWPA requirements.
- .4 Following water-borne preservative treatment, dry material to maximum moisture content of 15%.

2.4 Accessories

- .1 Field Applied Wood Preservative:
 - .1 For ACQ or CA Preservative Wood: Organic solvent, copper naphthenate, prepared in accordance with CSA O80, coloured green.
- .2 Polyethylene Film: To CAN/CGSB-51.34, 100 micrometres thick.
- .3 Joist Butyl Tape: Minimum 75 mm wide

3.0 EXECUTION

3.1 Field Treatment of Preservative-Treated and Existing Products

- .1 Field-treat surfaces exposed by cutting, trimming, or boring of preservative-treated items with liberal application of preservative and in accordance with AWWA M4.
- .2 Apply preservative in accordance with manufacturer's instructions. Apply by dipping, brush, or spray to completely saturate and maintain wet film on surface for minimum 3-minute soak on lumber and 1-minute soak on plywood. Allow to dry 24 hours prior to covering.

3.2 Erection of Framing Members

- .1 Install members true to line, levels, and elevations, and square and plumb. Space uniformly.
- .2 Construct continuous members from pieces of longest practicable length.
- .3 Install spanning members with "crown-edge" up.
- .4 Install blocking to facilitate installation of finishing materials, fixtures, specialty items, and trim.
- .5 Select exposed framing for appearance. Install lumber materials so that grade-marks and other defacing marks are concealed or remove by sanding where materials are left exposed.
- .6 Frame, anchor, fasten, tie, and brace members to provide necessary strength and rigidity.
- .7 Countersink bolts where necessary to provide clearance for other work.

3.3 Wood Furring and Blocking

- .1 Provide wood furring and blocking at locations indicated on Drawings and as specified.

3.4 Wood Trim and Fascia

- .1 Mitre joints to disguise shrinkage.

END OF SECTION

1.0 GENERAL

1.1 Work Included

- .1 Provide all labour, materials, equipment, and services necessary to supply and install wood decking work shown or indicated on all Contract Drawings and Specifications.

1.2 Reference Standards

- .1 All referenced Standards are latest editions referenced by the Building Code in the Place of the Work, or latest editions if not referenced by Code.
- .2 National Building Code of Canada
- .3 CSA B111 Wire Nails, Spikes and Staples (Withdrawn)
- .4 National Lumber Grade Authority (NLGA) Standard Grading Rules for Canadian Lumber

1.3 Delivery, Storage, and Handling

- .1 Wrap members prior to leaving plant with a moisture-resistant wrapping.
- .2 Use padded non-marring slings for handling members.
- .3 Protect corners with wood blocking.

2.0 PRODUCTS

2.1 Wood Decking

- .1 To NLGA Standard Grading Rules for Canadian Lumber, with grade stamp of an agency certified by Canadian Lumber Standards Accreditation Board.
- .2 Seasoned, select and commercial grade Spruce, Pine, Douglas Fir, preservative treated, nominal dimensions to drawings.
- .3 Decking Lengths:
 - .1 10% of quantity supplied shall be 1.8 m to 3 m in length.
 - .2 45% of quantity supplied shall be 5 m and longer.

- .4 Treat in accordance with applicable CSA O80 commodity standard using alkaline copper quaternary type C (ACQ-C) or copper azole type B (CA-B) preservative to obtain minimum net retention of 4.0 kg/cu. m of wood. Materials shall be kiln-dried after treatment.
- .5 Inspection of products treated with preservative by vacuum-pressure impregnation will be carried out by an accredited inspection agency of the Canadian Wood Preservers Bureau (CWPB).
- .6 Treated lumber shall bear an identifying stamp in accordance with the CWPB, CAN/CSA O80, or AWWA requirements.
- .7 Following water-borne preservative treatment, dry material to maximum moisture content of 15%.

2.2 Accessories

- .1 Nails: Use double hot-dipped galvanized finish steel in accordance to ASTM A153, unless stated otherwise. To prevent wood from splitting, use thin-shanked nails with blunt points.
- .2 Setting Blocks: Use PVC shims to accommodate drainage between tapered strapping and surface.
- .3 Field Applied Wood Preservative: For ACQ or CA preservative wood, use organic solvent, copper naphthenate, prepared in accordance with CAN/CSA O80, coloured green.

3.0 EXECUTION

3.1 Pattern

- .1 Install plank decks to CSA O86.1 octagonal pattern, except as otherwise specified.
- .2 Provide minimum of one bearing support for each plank except for cantilevers, which shall extend over two supports.
- .3 Single and Double Spans: End joints shall be over support.
- .4 Leave 1/8" space between ends of boards.

3.2 Nailing

- .1 Nail each piece at each support with one toe nail and one face nail.

- .2 Nails shall penetrate 38 mm into supporting members.

3.3 Field Treatment of Preservative Treated Decking

- .1 Field treat surfaces exposed by cutting, trimming, or boring of preservative-treated items with liberal application of preservative and in accordance with AWPA M4.
- .2 Apply preservative in accordance with manufacturer's instructions. Apply by dipping, brush, or spray to completely saturate and maintain wet film on surface for minimum 1-minute soak on plywood. Allow to dry 24 hours prior to covering.

3.4 Finishing of Exposed Decking

- .1 Remove tool marks, bruises, and scratches.
- .2 Paint decking as specified in Section 09 91 19.

3.5 Field Quality Control

- .1 At the discretion of the Consultant, testing agency to test moisture content of delivered decking material. If required, testing will be paid out of Material Testing Allowance.
- .2 Testing will be by moisture meter, with adjustments for species and temperature.

END OF SECTION

1.0 GENERAL

1.1 Work Included

- .1 Provide all labour, materials, equipment, and supervision necessary to repaint all steel columns, column baseplates and anchors, and perimeter framing channels as outlined in this Section and shown on the Drawings.
- .2 Except as specified herein, particular items scheduled to receive finishes, type of finish, and final colour coat shall be indicated on Paint Schedule, as shown on the Drawings.

1.2 Reference Standards

- .1 All referenced Standards are latest editions referenced by the Building Code in the Place of the Work, or latest editions if not referenced by Code.
- .2 National Building Code of Canada
- .3 Master Painters Institute (MPI): Architectural Painting Specification Manual and Maintenance Repainting Manual
- .4 MPI Repaint Surface Preparation (MPI RSP) Standards
- .5 SSPC: The Society for Protective Coatings

1.3 Quality Assurance

- .1 The Contractor shall have a minimum five years of proven satisfactory experience and shall maintain a qualified crew of painters throughout the duration of the work. When requested, Contractor shall provide a list of the last three comparable exterior repainting jobs including name, location, specifying authority, project manager, and start and completion dates.
- .2 Only qualified journeypersons, as defined by local jurisdiction, shall be engaged in repainting work. Apprentices may be employed provided they work under the direct supervision of a qualified journeyperson in accordance with trade regulations.
- .3 All material, preparation, and workmanship shall conform to the standards contained in the latest edition of the Master Painters Institute Maintenance and Repainting Manual (herein referred to as the MPI Repainting Manual) unless noted otherwise.
- .4 All repainting work shall be reviewed and accepted in writing by the paint manufacturer's technical representative.

1.4 Regulatory Requirements

- .1 Conform to workplace safety regulations for storage, mixing, application, and disposal of all painting-related materials to requirements of those authorities having jurisdiction.
- .2 Conform to safety precautions in accordance with latest requirements to Industrial Health and Safety Regulations, latest edition, of authorities having jurisdiction.
- .3 To reduce the amount of contaminants entering waterways, sanitary / storm drain systems, or into the ground, strictly adhere to the following procedures:
 - .1 Retain cleaning water for water-based materials to allow sediments to be filtered out. Do not clean equipment using free draining water.
 - .2 Retain cleaners, thinners, solvents, and excess paint, and place in designated containers and ensure proper disposal.
 - .3 Return solvent and oil soaked rags used during painting operations for contaminant recovery, proper disposal, or appropriate cleaning and laundering.
 - .4 Dispose of contaminants in an approved legal manner in accordance with hazardous waste regulations.
 - .5 Empty paint cans are to be dry prior to disposal or recycling (where available).
 - .6 Tightly close and seal partly used cans of material, including sealant and adhesive containers, and store in a protected, well ventilated, and fire-safe area at moderate temperature.
- .4 Where paint recycling is available, collect waste paint by type and provide for delivery to recycling or collection facility.

1.5 Mock-Up

- .1 Contractor to product 1 ft. X 1 ft. mock-up of each colour on site for Owner review and approval prior to wholesale finish coat installation. When approved, surface area and/or item shall become acceptable standard of finish quality and workmanship for similar on-site repainting work.

1.6 Submittals

- .1 Submit list of all painting materials for Consultant review prior to ordering materials.
- .2 Submit two copies of Safety Data Sheets (SDS) prior to commencement of work for review and for posting at job site as required.
- .3 Submit a certificate signed by coating system manufacturer confirming the method of surface preparation (SSPC-SP Number and MPI RSP Index Number) and proposed coating system (primer and finish coat MPI Product Category Index) for each substrate condition prior to proceeding with work.
- .4 Submit work schedule for various stages of work for Consultant review and Owner approval.
- .5 At project completion, submit an itemized list with manufacturer, paint type, and colour-coding for all colours used for Owner's later use in maintenance.

1.7 Samples

- .1 Provide a sample of each colour of paint to be used on this project. Colour samples shall be on stiff card, 8-1/2" x 11" in size. Show all coats.
- .2 Provide three samples of each type of finish specified.
- .3 Submit samples to Consultant for acceptance. Clearly identify colour samples with colour number used on Colour Schedule. Resubmit colour and finish samples until final written acceptance is received.

1.8 Product Delivery, Storage, and Handling

- .1 Deliver all painting materials in sealed, original labeled containers bearing manufacturer's name, brand name, type of paint or coating, and colour designation, standard compliance, materials content as well as mixing and/or reducing and application requirements.
- .2 Store all paint materials in original labeled containers in a secure (lockable), dry, heated, and well-ventilated single designated area meeting the minimum requirements of both paint manufacturer and authorities having jurisdiction and at a minimum ambient temperature of 45°F (7°C). Only material used on this project are to be stored on site.

- .3 Where toxic, volatile, explosive, or flammable materials are being used, provide adequate fireproof storage lockers and take all necessary precautions and post adequate warnings (e.g. no smoking) as required.
- .4 Take all necessary precautionary and safety measures to prevent fire hazards and spontaneous combustion and to protect the environment from hazard spills. Materials that constitute a fire hazard (paints, solvents, drop clothes, etc.) shall be stored in suitable closed and rated containers and removed from the site on a daily basis.
- .5 Comply with requirements of Authorities Having Jurisdiction in regards to the use, handling, storage, and disposal of hazardous materials.

1.9 Project / Site Requirements

- .1 Unless specifically pre-approved by the applied product manufacturer, perform no repainting work when ambient air and substrate temperatures are below 50°F (10°C).
- .2 Perform no repainting work unless environmental conditions are within MPI and paint manufacturer's requirements or until adequate weather protection is provided. Where required, suitable weatherproof covering and sufficient heating facilities shall be in place to maintain minimum ambient air and substrate temperatures for 24 hours before, during, and after paint application.
- .3 Perform no repainting work when the relative humidity is above 85% or when the air temperature is within 5°F (3°C) of dewpoint.
- .4 Conduct moisture tests using a properly calibrated electronic moisture meter. Perform no repainting work when maximum moisture content of substrate exceeds requirements from the paint manufacturer.
- .5 Apply paint only to dry, clean, and adequately prepared surfaces in areas where dust is no longer generated by construction activities such that airborne particles will not affect the quality and performance of finished surfaces.

1.10 Scheduling

- .1 Schedule repainting operations to prevent disruption of and by other trades when applicable.
- .2 Schedule repainting operations to prevent disruption of Owner's operations or building occupants. Obtain written authorization from Consultant / Owner for changes in work schedule.

- .3 Post legible warning signs at all points of entry to areas in which work of this Section is being applied.
 - .1 Erect suitable barriers to prevent traffic and other trades from working in such areas during application of this work.

1.11 Performance Requirements

- .1 Painting performed under this Contract shall satisfy the following requirements:
 - .1 Not debond or peel off substrate to which it is applied (i.e. steel).
 - .2 Not crack, mark, bubble, or wear unduly under normal maintenance.

1.12 Maintenance Material

- .1 At project completion, provide a minimum of 4 L (1 gallon) of each type and colour of paint, from same batch number used, in unopened cans, properly labeled and identified for Owner’s later use in maintenance. Store where directed.

2.0 PRODUCTS

2.1 Materials

- .1 All products used shall be compatible with other coating materials as required.
- .2 All materials and paints shall be lead and mercury free and low VOC content where possible.
- .3 Paint shall have good flowing and brushing properties and shall dry or cure free of streaks or sags, to yield the desired finish specified.

2.2 Description of Finishes

- .1 Gloss terms shall have the following values based on MPI gloss and sheen levels:

MPI GLOSS AND SHEEN LEVELS			
Gloss Term	Description	Gloss Value @ 60°	Sheen Value @ 85°
Gloss Level 1	Traditional matte finish - flat	Max. 5 units	Max 10 units

MPI GLOSS AND SHEEN LEVELS			
Gloss Term	Description	Gloss Value @ 60°	Sheen Value @ 85°
Gloss Level 2	High side sheen - flat 'velvet' or low lustre	Max. 10 units	10 – 35 units
Gloss Level 3	Traditional 'eggshell-like' finish	10 - 25 units	10 – 35 units
Gloss Level 4	'Satin-like' finish	20 - 35 units	Min. 35 units
Gloss Level 5	Traditional semi-gloss	35 - 70 units	---
Gloss Level 6	Traditional gloss	70 - 85 units	---
Gloss Level 7	High gloss	More than 85 units	---

2.3 Equipment

- .1 Painting Equipment: To best trade standards for type of product and application.
- .2 Spray-Painting Equipment: Of ample capacity, suited to the type and consistency of paint or coating being applied, and kept clean and in good working order at all times.

2.4 Mixing and Tinting

- .1 Unless otherwise specified or pre-approved, all paints shall be ready-mixed and pre-tinted. Re-mix all paint in containers prior to and during application to ensure break-up of lumps, complete dispersion of settled pigment, and colour and gloss uniformity.
- .2 Paste, powder, or catalyzed paint mixes to be mixed in strict accordance with manufacturer's written instructions.
- .3 Where thinner is used, addition shall not exceed paint manufacturer's recommendations.
- .4 If required, thin paint for spraying in strict accordance with paint manufacturer's instructions. If directions are not on container, obtain instructions in writing from manufacturer and provide copy of instructions to Consultant.

2.5 Finish and Colours

- .1 Unless otherwise specified herein, all repainting work shall be done in accordance with MPI Premium Grade requirements.

- .2 Finish coat colour shall be white with a satin finish (MPI Gloss Level 4).

2.6 Epoxy Primer

- .1 Following epoxy primers are approved for this project. MPI Index No. 20.
 - .1 Zinc Clad IV as manufactured by Sherwin-Williams
 - .2 Consultant-approved Alternative

2.7 Epoxy Coat

- .1 Following high build epoxy coatings are approved for this project. MPI Index No. 120.
 - .1 Macropoxy 646 Fast Cure Epoxy as manufactured by Sherwin-Williams
 - .2 Consultant-approved Alternative

2.8 Finish Coat

- .1 Following aliphatic acrylic modified polyurethane finish coatings are approved for this project.
 - .1 Corothane II Satin Polyurethane as manufactured by Sherwin-Williams. Colour and finish to match approved mock-up.
 - .2 Consultant-approved Alternative

3.0 EXECUTION

3.1 Condition of Surfaces and Surface Preparation

- .1 Prior to bidding and commencement of repainting work, thoroughly examine (and test as required) all conditions and surfaces scheduled to be repainted.
- .2 Degree of surface deterioration (DSD) shall be assessed using assessment criteria indicated in MPI Repainting Manual. In general, MPI DSD ratings and descriptions are as follows:

Condition	Description
DSD-0 Sound Surface	May include visual (aesthetic) defects that do not affect film’s protective properties.

Condition	Description
DSD-1 Slightly Deteriorated Surface	No loss of adhesion (i.e. no peeling, flaking, checking, cracking, alligating). No blistering or corrosion evident below or at the surface (only minor rust stains from face to face joints or bolt connections). Chalking or erosion is light to moderate. Mildew is limited to light surface growth, with no damage to the surface. No white rust is visible on galvanized metal.
DSD-2 Moderately Deteriorated Surface	May show moderate peeling and/or flaking between the previous coats, with some areas exposing bare metal. There may be localized areas of alligating. Localized areas showing blisters. Mildew is visible on the surface and has caused slight damage. Moderate amounts of corrosion stains are evident at the surface of the existing coating, and surface rust is visible. Localized white rust may show on galvanized metal. Chalking and erosion is moderate on the surface.
DSD-3 Severely Deteriorated Surface	May show alligating of the previous coatings. The existing coating shows peeling and/or flaking between the previous coats or down to the substrate in many areas. Extensive blistering. Corrosion stains are evident at the surface of the existing coating, and surface rust is visible on exposed metal with severe undercutting and lifting of the surrounding paint. Chalking and erosion is moderate to heavy. Galvanized metals may exhibit extensive white rust.
DSD-4 Substrate Damage	Repair or replacement of surface required.

.3 All surface preparation shall be to MPI RSP-7 Abrasive Blast Cleaning and SSPC Surface Preparation Standards. In general, SSPC Surface Preparation Standards descriptions are as follows:

.1 SSPC-SP 6 (Commercial Blast Cleaning): A commercial blast cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dust, dirt, mill scale, rust, coating, oxides, corrosion products, and other foreign matter.

- .2 SSPC-SP 7 (Brush-Off Blast Cleaning): A brush-off blast cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, loose mill scale, loose rust, and loose coating. Tightly adherent mill scale, rust, and coating may remain on the surface. Mill scale, rust, and coating are considered tightly adherent if they cannot be removed by lifting with a dull putty knife after abrasive blast cleaning has been performed. The entire surface shall be subjected to the abrasive blast.
- .4 Surface deterioration noted as DSD-0 and DSD-1 are to have a SSPC-SP 7 (Brush-Off Blast Cleaning). No extras for surface preparation or additional material will be entertained after bid closing.
- .5 Surface deterioration noted as DSD-2 and DSD-3 are to have a SSPC-SP 6 (Commercial Blast Cleaning). No extras for surface preparation or additional material will be entertained after bid closing.
- .6 Structural and DSD-4 substrate defects discovered prior to and after surface preparation or after first coat of paint shall be made good prior to repainting. The cost of repair of DSD-4 substrate defects will be extra to the Contract and/or paid for through the unit price repairs in the Contract if otherwise agreed to by the Owner and Contractor to be included in this Work. These repairs are to have a SSPC-SP 6 (Commercial Blast Cleaning) surface preparation.
- .7 No repainting work shall commence until all such adverse conditions and defects have been corrected and surfaces and conditions are acceptable to the Consultant. It shall always be, however, the responsibility of the General Contractor to see that surfaces are properly prepared before any paint or coating is applied.

3.2 Application

- .1 Do not commence repainting unless substrates and all environmental conditions are acceptable for the application of products.
- .2 Apply primer or paint in accordance with MPI Repainting Manual requirements.
- .3 Apply primer or paint in a workmanlike manner using skilled and trade qualified applicators as noted under Quality Assurance.
- .4 Apply primer or paint within an appropriate time frame after cleaning and preparation to prevent weathering or water staining of substrate or before environmental conditions encourage flash-rusting, rusting, contamination or when manufacturer's paint specifications require earlier applications.

- .5 Primer or paint coats specified are intended to cover surfaces satisfactorily when applied at proper consistency and in accordance with manufacturer's recommendations.
- .6 Do not apply finishes on surfaces that are not sufficiently dry. Unless manufacturer's directions state otherwise, each coat shall be sufficiently dry and hard before a following coat is applied.
- .7 Sand and dust between each coat to provide an anchor for next coat and to remove defects (runs, sags, etc.) visible from a distance up to 1 m (39").
- .8 To avoid air entrapment in applied coats, apply materials in strict accordance with manufacturer's spread rates and application requirements.
- .9 Paints shall be uniform in sheen, colour, and texture and free from brush or roller marks, sags, runs, or other defects.
- .10 Finish and number of coats specified are intended to cover surfaces completely. If they do not, apply further coats until complete coverage is achieved to Consultant's approval. Do not over apply paint.
- .11 Any areas exhibiting incomplete or unsatisfactory coverage shall have the entire plane painted. Patching will not be accepted.
- .12 Flammable rubbish, cotton waste, cloths, and material that may constitute a fire hazard shall be placed in closed metal containers and removed daily from the site.

3.3 Painting and Finishing Systems

- .1 The following shall be the finishing systems for the repainting work in this Contract. The final coating system will be based on evaluation of the degree of surface deterioration (DSD), method of Repaint Surface Preparation (MPI RSP) required, and site conditions confirmed by the General Contractor and Paint Manufacturer prior to bidding.
 - .1 Surface deterioration noted as DSD-0 and DSD-1 (SSPC-SP 7 surface preparation) are to receive one coat of epoxy coating and two coats of finish coat.
 - .2 Surface deterioration noted as DSD-2 and DSD-3 (SSPC-SP 6 surface preparation) are to receive one coat of epoxy primer, one coat of epoxy coating, and two coats of finish coat.

- .3 All structural repairs (SSPC-SP 6 surface preparation) are to receive one coat of epoxy primer, one coat of epoxy coating, and two coats of finish coat.
- .2 Submit a certificate signed by coating system manufacturer confirming the method of surface preparation and proposed coating system (primer, epoxy coat, and finish coat) for each substrate condition prior to proceeding with work.

3.4 Field Quality Control

- .1 All surfaces, preparation, and paint applications shall be inspected.
- .2 Repainted surfaces shall be considered to lack uniformity and soundness if any of the following defects are apparent to the Consultant:
 - .1 Brush or roller marks, streaks, laps, runs, sags, drips, heavy stippling, hiding or shadowing by inefficient application methods, skipped or missed areas, or foreign materials in paint coatings.
 - .2 Evidence of poor coverage at rivet heads, plate edges, lap joints, crevices, pockets, corners, and re-entrant angles.
 - .3 Damage by touching before paint is sufficiently dry or any other contributory cause.
 - .4 Damage due to application on moist surfaces or caused by inadequate protection from the weather.
 - .5 Damage or contamination of paint by wind-blown contaminants (dust, sand blast materials, salt spray, etc.)
- .3 Repainted surfaces shall be considered unacceptable if any of the following are evident under natural lighting conditions:
 - .1 Visible defects are evident on vertical surfaces when viewed at 90-degrees to the surface from a distance of 1 m (39").
 - .2 Visible defects are evident on horizontal surfaces when viewed at 45-degrees to the surface from a distance of 1 m (39").
 - .3 Visible defects are evident on soffit and other overhead surfaces when viewed at 45-degrees to the surface.
 - .4 When the final coat on any surface exhibits a lack of uniformity of sheen across full surface area.

- .4 Repainted surfaces rejected by the Consultant shall be made good at the expense of the Contractor. Small affected areas may be touched up; large affected areas or areas without sufficient dry film thickness of paint shall be repainted. Runs, sags, and damaged paint shall be removed by scraper or sanding prior to application of paint.

3.5 Protection

- .1 Protect all newly repainted surfaces from rain, snow, condensation, contamination, dust, salt spray, and freezing temperatures until paint coatings are completely dry. Curing periods shall comply with manufacturer's recommended minimum time requirements.
- .2 Erect barriers or screens and post signs to warn, limit, or direct traffic away or around work area as required.

3.6 Clean Up

- .1 Remove all paint where spilled, splashed, splattered, or sprayed as work progresses using means and materials that are not detrimental to affected surfaces.
- .2 Keep work area free from an unnecessary accumulation of tools, equipment, surplus materials, and debris.
- .3 Remove combustible rubbish materials and empty paint cans each day and safely dispose of same in accordance with requirements of Authorities Having Jurisdiction.
- .4 Clean equipment and dispose of wash water, solvents, as well as all other cleaning and protective materials (e.g. rags, drop cloths, masking papers, etc.), paints, thinners, and paint removers/strippers in accordance with the safety requirements of Authorities Having Jurisdiction.

END OF SECTION

1.0 GENERAL

1.1 Work Included

- .1 This Section outlines repair and inspection procedures to be undertaken when existing electrical conduits, fixtures, etc. are damaged due to the construction activity.
- .2 Damaged electrical conduits, fixtures, etc. must be repaired in a timely fashion. If repair cannot be made in a timely fashion, a temporary system must be installed.
- .3 Visit site to ascertain and note existing conditions that will affect the Work.

1.2 Regulatory Requirements

- .1 Comply with Safety Codes Act and rules and regulations made pursuant thereto, including Canadian Electrical Code.
- .2 Unless otherwise indicated, all references in the Contract Documents to "Canadian Electrical Code" or "CEC" shall mean the edition of the Canadian Electrical Code, Part I, CSA C22.1 and the variations made thereto by Nova Scotia regulation, which are in force on the date of bid closing for the Contract.
- .3 All electrical products shall be tested, certified, and labelled in accordance with a certification program accredited by the Standards Council of Canada.
- .4 Submit drawings and specifications to authority having jurisdiction and local utility company for examination and approval before commencement of electrical work. Pay any associated fees required to obtain a permit for the Work.
- .5 Submit a copy of electrical permit obtained from the Authority Having Jurisdiction to the Consultant.

1.3 Examination of Site

- .1 Visit and examine the site and all applicable Drawings before Bid. The Bid shall include all costs for required electrical work necessary for performance of the Work. No extras will be paid due to failure to visit the site or adequately review all required interfacing details.

1.4 Delivery, Storage, and Handling

- .1 Submit copies of Safety Data Sheets (SDS) for all products prior to arrival on site.
- .2 Deliver, store, and maintain packaged material with manufacturer's seals and labels intact.
- .3 Store material in regulation containers in accordance with the Occupational Health and Safety Act and manufacturer instructions.
- .4 Toxic or hazardous chemicals shall be secured in a locked storage area with appropriate protection measures in accordance with the Occupational Health and Safety Act.
- .5 All containers to be labelled with material expiration dates. Material that is older than the expiry date shall be rejected. Shelf life shall be strictly adhered to and material shipped without dates will be rejected. Immediately remove rejected materials from site.

2.0 PRODUCTS

2.1 Materials

- .1 Use new products unless otherwise specified.
- .2 Provide electronic copies of maintenance instructions for finished surfaces and maintenance material before Substantial Performance of the Work.

3.0 EXECUTION

3.1 Exposed Conduits, Fixtures, Etc.

- .1 All exposed conduits and fixtures are to be properly protected and operational at all times during the Work. Refer to Section 01 10 01.
- .2 Repair or replacement of damaged exposed conduits, cables, and fixtures is Contractor's responsibility when damage was caused by Contractor's operations. Required repair or replacement work to exposed conduits, fixtures, etc. may be performed by Contractor's own electrician.

3.2 Existing Electrical Services

- .1 Identify potential areas of buried or hidden conduit, and locate or switch off high voltage systems in the area of Work to prevent possible damage and injury. Coordinate requirements with Owner.
- .2 Take utmost precaution during demolition operations to prevent damage to buried or hidden conduit and cables. Immediately report damage to hidden conduits, cables, and systems to Owner and Consultant.
- .3 Damaged or deteriorated conduits are not to be covered up without specific approval from Owner.
- .4 Allow reasonable time in scheduling of the Work for implementation of any required repairs to buried or hidden conduit, cables, and systems.
- .5 Take all precautions to ensure embedded conduits uncovered by the work are not live before performing demolition work around them. Anticipate uncovering lighting conduits, 600V main power lines, exhaust fan conduits, alarm lines, telephone lines, etc.
- .6 Repair or abandon damaged conduit, cabling, and systems uncovered by the Work at discretion of Owner. Owner will pay for repairs to damaged hidden conduit, cabling, and systems, provided damage did not result from a lack of Contractor care or negligence. Negligence shall be determined at discretion of Consultant.
- .7 All repairs to embedded electrical conduit, cabling, and services will be performed by an electrician that is agreeable to Owner and paid via Change Order through contingency allowance.

3.3 Temporary Systems

- .1 If damage to surface-mounted or hidden conduit, cabling, and systems cannot be repaired in a timely fashion, Owner may, at their discretion, request that Contractor provide a temporary system or connection to maintain operation.
- .2 Costs for requested temporary systems will be allocated to Owner for damage to hidden conduit, cabling, and systems and to Contractor for damage to surface mounted conduit, cabling, and systems.

3.4 Inspection of Work

- .1 All electrical system repair work is to be inspected as required by the authority having jurisdiction.

- .2 Arrange for required inspections of repairs within 48 hours of repairing damage. Schedule all required inspections, regardless of whether Owner's or Contractor's electrician performed the repair.
- .3 Cost of inspections shall be responsibility of Contractor.
- .4 Copies of inspection certificates for required inspections shall be distributed to Owner and Consultant upon completing the Project.

END OF SECTION

1.0 GENERAL

1.1 Work Included

- .1 Provide all labour, materials, and equipment necessary for the complete supply, surface preparation, and application of paint required to restore original finishes.
- .2 The work of this section shall include, but shall not necessarily be limited to, the following:
 - .1 Prime, painting, and finishing of all exterior exposed items and surfaces noted on the Drawings and indicated in the Specifications.
 - .1 Colour scheme to match existing and/or to Owner approval.

1.2 Reference Standards

- .1 All referenced Standards are latest editions referenced by the Building Code in the Place of the Work, or latest editions if not referenced by Code.
- .2 National Building Code of Canada
- .3 New Surfaces: Canadian Painting Contractor's Architectural (CPCA) Painting Specifications Manual
- .4 Existing Surfaces: Master Painters Institute (MPI) Maintenance Repainting Manual

1.3 Submittals

- .1 Submit manufacturer's product data for each type of paint used during the product to the Consultant for review a minimum of two weeks prior to commencing the Work.
- .2 Before any work is commenced, submit sample panels (24" x 36") of each paint type and colour, specified in colour schedule, for Owner's review.

1.4 Quality Assurance

- .1 Qualification of Applicators: Contractor shall have a minimum five years of proven satisfactory experience and shall maintain a qualified crew of painters throughout duration of the work who are qualified to fully satisfy the requirements of this Specification. Only qualified workers with a "Red Seal" qualification or an apprentice working under the same shall be engaged in painting and decorating work.

- .2 Conform to standards contained in MPI Manual, latest edition.
- .3 All paint manufacturers and products shall be as listed under “Approved Products” section of MPI Manual.
- .4 All painting, unless otherwise specified, shall be to MPI Manual - Premium Grade.

1.5 Delivery, Storage, and Handling

- .1 Delivery, storage, and handling of materials shall be in accordance with applicable sections of MPI Architectural Painting Specification Manual. Deliver and store on site in manufacturer’s sealed and labelled containers. Protect latex materials from freezing. Maintain stored materials at a temperature of 8°C or more.
- .2 Take all necessary precautionary measures to prevent fire hazards and spontaneous combustion.

1.6 Protection

- .1 Adequately protect all other surfaces from paint and damage and make good any damage caused by failure to provide suitable protection.
- .2 Furnish sufficient drop cloths, shields, and protective equipment to prevent spray or droppings from fouling surfaces not being painted, including surfaces within the storage and preparation area.
- .3 Mask all surfaces not being painted to obtain uniform termination.
- .4 Remove all electrical plates, surface hardware, fittings, and fastenings prior to painting operations. Carefully store, clean, and replace upon completion of Work in each area.

1.7 Environmental Conditions

- .1 Temperature and moisture content of all surfaces shall conform to ratings given in CPCA or MPDA manual.
- .2 All areas where painting and decorating work are proceeding require adequate continuous ventilation and sufficient heating facilities to maintain temperature above 10°C for 24 hours before, during, and 24 hours after paint application.
- .3 Do not paint during rainy or windy conditions or when inclement weather is forecasted.

- .4 Provide adequate illumination on surfaces being painted.

1.8 Maintenance Materials

- .1 At project completion, provide 16 L (4 gal.) of each type of colour to paint from same production run (batch mix) used, in unopened cans, properly labelled and identified for Owner's later use in maintenance. Store where directed.

2.0 PRODUCTS

2.1 Materials

- .1 Use paint materials and products of paint manufacturers listed and approved in MPI Manual and CGSB Qualified Products List. No substitutions.
- .2 All paints shall be Premium Grade; first quality products as manufactured by C.I.L., Bapco Paint Co., Brandram-Henderson Company, Sherwin Williams, Glidden, Pratt & Lambert, Benjamin Moore, and General Paint.
- .3 Provide undercoat paint produced by same manufacturer as finish coats. Use only thinners approved by paint manufacturer, and use only within recommended limits.
- .4 Exterior Painting and Finishing Schedule
 - .1 Unless otherwise indicated, titles and code numbers in below listed schedule refer to MPI Architectural Painting Specification Manual, Chapter 2, for type surfaces, coating, grade, named products, and their manufacturers. Use products from only one manufacturer for each system.
 - .2 Schedule:
 - .1 Wood Decking and Trim Board Surfaces: EXT 6.5A Latex Porch & Floor, Gloss Level 3, over over alkyd/oil primer.

2.2 Mixing

- .1 Paints shall be ready-mixed unless otherwise specified. Paint shall have good flowing and brushing properties and shall dry or cure free of streaks or sags to yield the desired finish specified.

3.0 EXECUTION

3.1 Inspection

- .1 Examine all surfaces to be painted before commencing work.
- .2 Commencement of work indicates acceptance of surfaces and job conditions.

3.2 Preparation of Surface

- .1 Prepare surfaces in accordance with MPI Manual.
- .2 Prepare existing exterior surfaces by high-pressure water or other approved method to remove all dust, loose paint, and other deposits on surfaces.
- .3 Remove hardware, hardware accessories, machines surfaces, plates, lighting fixtures, and similar items in place and not to be finish-painted, or provide surface-applied protection prior to surface preparation and painting operations. Remove, if necessary, for complete painting of items and adjacent surfaces. Following completion of painting of each space or area, reinstall removed items.
- .4 Program cleaning and painting so that contaminants from cleaning process will not fall onto wet, newly painted surfaces.

3.3 Application

- .1 Perform painting and decorating work in accordance with the standards and requirements incorporated in the CPCA Manual and/or MPI Manual.
- .2 Method of paint application shall be by either spray-on or roll-on, sufficient to fill all voids in existing surfaces and provide uniform appearance.
- .3 Flammable rubbish, cotton waste, cloths, and material that may constitute a fire hazard shall be placed in closed metal containers and removed from site daily.
- .4 Protect all signs and fixtures attached to the walls. Uncover and clean when painting has been completed.

END OF SECTION

Locations

Canada

Vancouver, BC
Surrey, BC
Victoria, BC
Nanaimo, BC
Kelowna, BC

Calgary, AB
Edmonton, AB

Saskatoon, SK

Toronto, ON
Ottawa, ON
Kitchener, ON
Kingston, ON
London, ON

Montreal, QC

Halifax, NS

Stratford, PEI

USA

Las Vegas, NV



Engineers



Trusted Advisors

Engineering Services

- Bridge Design & Rehabilitation
- Building Envelope
- Cold-Formed Steel Design
- Condition Assessments
- Depreciation Reports & Reserve Fund Studies
- Façade Engineering
- Fall Protection & Travel Restraint
- Forensic Engineering
- Energy Modelling
- Heritage Conservation
- Parking Facility Design
- Parking Structure Restoration
- Pavement Rehabilitation
- Performance Assessment
- Post-Tensioned Concrete
- Prime Consulting
- Rendering & Interactive Visualization
- Roofs & Plaza Decks
- Seismic Risk Mitigation
- Specialty & Supplementary Engineering
- Structural Engineering
- Structural Glass Engineering
- Structural Restoration
- Sustainable Design
- Traffic Deck Protection & Replacement
- Waterproofing
- Wood Design

rjc.ca