



**Waterloo Catholic
District School Board**

Bid Documents

Waterloo Catholic District School Board

**St Anne Cambridge CES Renovation
127 Elgin St N, Cambridge, ON N1R 0E1
RFT No. 2026-11**

Prepared by:

17|21 architects inc.
1065 Valetta Street, Suite A
London, Ontario
N6H 2Z9

March 3th, 2026

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- A101 – Interior Elevations, Door & Frame elevations & Door schedule
- A200 – Roof plan
- D100 - Demolition Floor Plan, General Notes, Demolition Notes

Mechanical Drawings

- M1 – Legends, Details, General Notes & Schedule
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- M3 - Washroom Partial Plan, Plumbing, Drainage & HVAC
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- E3 – Ground Floor Plan, Demolition and proposes Power, schedule & notes
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1.1 INVITATION

.1 Bid Call

.1 REGISTERED SUPPLIERS/BIDDERS

- All Bidders shall have a Bidding System Vendor account and be registered as a Plan Taker for this Bid opportunity, which will enable the Bidder to download the Bid Call Document, to receive Addenda email notifications and download all documents without the watermark “preview” on them.
- To ensure receipt of the latest information and updates via email regarding this bid, or if a Bidder has obtained this Bid Document from a third party, the onus is on the Bidder to create a Bidding System Vendor account and be register as a Plan Taker for the bid opportunity.

.2

ELECTRONIC BID SUBMISSIONS ONLY, shall be received by the Bidding System. Hardcopy submissions are not permitted.

Bidders are cautioned that the timing of their Bid Submission is based on when the Bid is RECEIVED by the Bidding System, not when a Bid is submitted, as Bid transmission can be delayed due to file transfer size, transmission speed, etc.

For the above reasons, it is recommended that sufficient time to complete your Bid Submission and to resolve any issues that may arise. The closing time and date shall be determined by the Bidding System’s web clock.

Bidders should contact bids&tenders support listed below, at least twenty-four (24) hours prior to the closing time and date, if they encounter any problems. The Bidding System will send a confirmation email to the Bidder advising that their bid was submitted successfully. If you do not receive a confirmation email, contact bids&tenders support at support@bidsandtenders.ca.

Late Bids are not permitted by the Bidding System.

To ensure receipt of the latest information and updates via email regarding this bid, or if a Bidder has obtained this Bid Document from a third party, the onus is on the Bidder to create a Bidding System Vendor account and register as a Plan Taker for the bid opportunity.

Supplementary Form of Tender to be emailed to:
Stephen.butterworth@wcdsb.ca

- .3 Submissions to the bidding system will be on or before **2:00:00pm March 17, 2026**, local time and Followed by the Supplementary Form of Tender emailed to Stephen.butterworth@wcdsb.ca at **4:00:00 pm March 17, 2026 local time**
- .4 Instructions for tendering must be followed implicitly. Any Tender which does not comply with the *CCDC 2-2020 Stipulated Price Contract, Supplementary*

Conditions, as attached, and the Instructions to Bidders may be declared informal and may not be considered.

- .5 Stipulated sum tenders, submitted on the Form of Tender supplied, on the Work described in the following specifications and/or shown on the accompanying drawings, including all Addenda issued prior to the closing of Tender.
- .6 ALL BLANKS IN THE FORM OF TENDER, INCLUDING SUPPLEMENTAL FORM OF TENDER, SHALL BE FULLY COMPLETED OR THE TENDER MAY BE INVALIDATED. TENDERS NOT COMPLETED IN FULL, MAY, AT THE DISCRETION OF THE BOARD, BE REJECTED. IF A BLANK IS DEEMED TO BE NOT REQUIRED BY THE BIDDER, COMPLETE WITH A "NOT APPLICABLE (N/A)", "OWN FORCES", ETC.
- .7 Tenders shall be valid for sixty (60) Calendar Days from the date of closing above.
- .8 Tenders must note, and include, on a separate form, any "Separate Prices" requested by the Consultant; any "Alternate Prices to the Base Bid" requested by the Consultant; any "Supplementary Alternate Prices" proposed by the Bidder; as well as all Unit Prices indicated on the *Supplementary Form of Tender*. Tender award to be based on low bid as specified.
- .9 Tender award will be determined based on low Bid as specified.

1.2 INTENT

- .1 Intent of this Bid call is to obtain an offer to perform work to complete the construction of **St Anne Cambridge CES** located at **127 Elgin St N, Cambridge, ON** for a Stipulated Price contract, in accordance with Contract Documents.

1.3 CONTRACT/BID DOCUMENTS

- .1 Agreement Form
- .2 Definitions
 - .1 Contract Documents: Defined in the *CCDC 2-2020* Stipulated Price Contract, Definitions.
 - .2 Bid Documents: Contract Documents supplemented with Instructions to Bidders, Project Information, Soils Investigation Data, Form of Tender, and Supplementary Form of Tender identified herein.
 - .3 Bid, Offer, or Bidding: Act of submitting an offer under seal or signed under witness.
 - .4 Bid Price: Monetary sum identified in Bid Form as an offer to perform work.
- .3 Availability

To obtain documents online please visit <https://wcdsb.bidsandtenders.ca/>. You can preview the bid documents with a Preview Watermark prior to registering for the opportunity.

 - .1 Documents are not provided in any other manner.
 - .2 Documents are made available only for purpose of obtaining offers for this project. Their use does not confer license or grant for other purposes.

- .3 A copy of soils investigation report may be found in Bid Documents
- .4 Examination
 - .1 Upon receipt of Bid Documents verify that documents are complete.
 - .2 Immediately notify, through the bidding system “Submit a Question”, upon finding discrepancies or omissions in Bid Documents.
- .5 Queries/Questions
 - .1 Questions related to this bid are to be submitted to the Purchasing representative through the Bidding System only by clicking on the “Submit a Question” button for this specific bid opportunity.

Purchasing Representative

Stephen Butterworth
Purchasing Officer
Waterloo Catholic District School Board

Email: Stephen.Butterworth@wcdsb.ca

Neither the Board nor the Board contact will be responsible for any verbal instructions or clarifications given during the Bidding process. As a result, verbal recollections of discussions, meetings, or telephone conversations will not be considered valid.

- .6 Addendums
 - .1 Bidders shall acknowledge receipt of any addenda through the Bidding System by checking the box for each addenda and any applicable attachment.

It is the responsibility of the Bidder to have received all Addenda that are issued. Bidders should check online at <https://wcdsb.bidsandtenders.ca/> prior to submitting their Bid and up until Bid closing time and date in the event additional addenda are issued.

If a Bidder submits their bid prior to the Bid closing time and date and addenda have been issued, the Bidding System shall WITHDRAW the Bid submission and the bid status will change to an INCOMPLETE STATUS and Withdraw the Bid. The Bidder can view this status change in the “MY BIDS” section of the Bidding System.

The Bidder is solely responsible to:

- make any required adjustments to their Bid; and
 - acknowledge the addenda; and
 - Ensure the re-submitted Bid is RECEIVED by the Bidding System no later than the stated bid closing time and date.
- .2 Clarifications requested by bidders must be received by the bidding system, not less than nine (9) days before date set for receipt of Bids. Reply will be in form of an addendum, a copy of which will be forwarded to known bidders no later than seven (7) working days before receipt of Bids

.7 Product/System Options

- .1 There are two opportunities for a Bidder to identify Alternates in the Bidder's Tender. The first method is to identify Alternates at the time of the Tender submission on the *Supplementary Form of Tender* to be attached to the Form of Tender. This document is to be entitled ALTERNATE PRICES TO BASE BID:
 - .1 Wherever possible or practical, the specifications are written on a "Base Bid" principle. When "Base Bid" product or service is identified, a number of "alternates" have been listed. The Bidder must tender on the "Base Bid" and indicate, on a separate sheet, Alternates and a credit to the Contract if one of the specified alternate supplier/manufacturer/installer or material/method of construction is being proposed by the Bidder. Only those identified Alternates in the Specification may be listed on the *Supplementary Form of Tender*. If the Specification identifies a "Base Bid" with a number of Alternates and the Bidder does not identify on the *Supplementary Form of Tender* any of the indicated Alternates with a credit, then the Contractor shall provide, in all instances, the "Base Bid" supplier/manufacturer/installer or material/method of construction.
 - .2 The Contractor shall accept full responsibility that a proposed Alternate will not exceed space requirements as indicated on the drawings and that coordination of the Contractor's own and related work and cost of installation is included in the Contractor's work. Approved alternate products or assemblies shall comply with all technical and design requirements specified in the "Base Bid". (E.g. materials, gauge, finish, colour, size, fit, mounting, strength, durability, operation and warranty.) If any additional design fee, either Architectural or Engineering, is required due to a change or substitution requested by the Contractor, the cost of such fee must be paid by the Contractor.
- .2 The second method is to identify alternates on the *Supplementary Form of Tender* and submitted, as requested by the Consultant, at the time of Tender. This document is to be entitled. SUPPLEMENTARY ALTERNATE PRICES:
 - .1 Mechanical and Electrical Alternates may be submitted on the *Supplementary Form of Tender*.
 - .2 If proposals for alternates (not already identified as alternates in the specification) are submitted by the Contractor to the Consultant during the tender period in sufficient time to allow for analysis and the issuance of an Addendum to include the proposals, then such proposal may be included in the Form of Tender under *Separate Prices*.
 - .3 Proposed alternates which are not covered by an Addendum and listed in the Form of Tender under *Separate Prices*, may be considered if the proposed entitled *Supplementary Alternate Prices* accompanies the *Supplementary Form of Tender* as a separate document on which the Alternate is completely specified and described, and on which is given the reason for substitution.
 - .4 Any proposed alternates or in lieu of prices will not necessarily be accepted.
 - .5 The Contractor shall accept full responsibility that a proposed Alternate will not exceed space requirements as indicated on the drawings and that

coordination of his own and related work and cost of installation is included in his work. Approved alternate products or assemblies shall comply with all technical and design requirements specified in the "Base Bid". (E.g. materials, gauge, finish, colour, size, fit, mounting, strength, durability, operation and warranty.) If any additional design fee, either Architectural or Engineering, is required due to a change or substitution requested by the Contractor, the cost of such fee must be paid by the Contractor.

- .6 Unless substitutions are submitted in this manner and subsequently accepted, provide products as specified.

1.4 OWNER

- .1 The Owner of the Project is:

WATERLOO CATHOLIC DISTRICT SCHOOL BOARD
35 Weber Street West, Unit A
Kitchener, Ontario N2H 3Z1
Phone: (519) 578-3660

1.5 CONSULTANT

The Architect on this Project is:

17|21 architects inc.
1065 Valetta Dt, Unit A
London, ON. N6H 2Z9
519-439-0611
Sonia.d@1721architects.ca

- .1 SUB CONSULTANTS

The Mechanical and Electrical Consultant on this Project is:

Callidus Engineering
1385 Routledge Park
Unit 9. London, ON N6H 5N5
Phone: 519-472-7640
jennifer@callidus.ca

1.6 PREQUALIFIED GENERAL CONTRACTORS AND SPECIFIC TRADES

- .1 The following General Contractors and Specific Trades have been prequalified by the Board to bid on the work included in this Tender **as per the WCDSB – 2019-24 Mechanical, Electrical, and General Contractors.**

NOTE: This Tender can be tendered by **prequalified General Contractors and Specific Trades ONLY. Tenders received from non-prequalified General Contractors and Specific Trades will not be considered.**

NOTE: Contractors have set limits on dollar value and this section must be adjusted to allow only the contractors that fit the tender dollar threshold.

GENERAL CONTRACTORS

Reid and Deleye Dakon Construction PM Contracting Tambro Construction Everstrong Construction Nith Valley Construction Brook Restoration Harbridge and Cross AEC Developments Pre Eng Contractors STM Construction TRP Construction Devlan Construction Percon Construction Melloul Blamey Norlon Builders	J.R. Certus M J Dixon Construction CRD Construction Golden Gate Contracting S.G. Cunningham Elgin Contracting Genpro Contracting Gordner Construction Harrington Construction Renokrew Aveiro Constructors Sax Construction Ritestart Ltd Zehr Levesque Inc. Hall Construction
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MECHANICAL TRADES

Aim Industrial Inc. Dependable Mechanical Sys. Arcadian Projects Jay Stewart Mechanical Conestoga Mechanical JTS Mechanical Roberts Onsite Dean Lane CEC Mechanical	L.J. Barton Mechanical Chamberlain Building Serv. Soan Mechanical Linde Mechanical JMR Electric Velocity Mechanical Brenner Mechanical Kittel Mechanical Superior Boiler Works
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ELECTRICAL TRADES

Kraun Electric Inc. Aim Industrial Inc. Powerserve Inc. PHE Contractor Roberts Onsite T. Lloyd Electric Juno Electric Comtrade Ltd MJM Electric Trade Service Group	Group L.J. Barton Mechanical Energy Network Services Superior Boiler Works Chamberlain Building Serv. RBT Electrical CEC Services Ltd. JMR Electric B Safe Electric Ltd Arcadian Projects Millers Electric JM Electrical Contracting
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1.7 SITE ASSESSMENT

.1 Site Examination

- .1 Visit project site and surrounding area before submitting Bid.
- .2 Notwithstanding the responsibility, a Site Visit to project site has been arranged for General Contractors and their sub-trades as follows:
- .3 Non-mandatory Site visit on **March 9th, 2026 at 8:30am @ St Anne CES** located at **127 Elgin St N, Cambridge, ON.**
- .4 Meet on **front entrance**
- .5 Before tendering, the Bidder shall examine the site, and the Reports prepared by separately engaged Consultants, bound into the Specifications for reference only, and shall ascertain the extent and nature of the materials it may be necessary, and shall be sure that the Bidder's determinations are made in accordance with the drawings and specifications and the Reports.
- .6 Proposals shall include the cost imposed by existing conditions and limitations of site and the accepted proposal shall be held to have included such costs. **NO ALLOWANCE WILL BE MADE FOR FAILURE TO EXAMINE THE EXISTING SITE.**
- .7 The information shown on the drawings are furnished in good faith for the guidance of the Contractor, but shall in no way relieve the Contractor of the responsibility of ascertaining to the Contractor's own satisfaction the nature of all conditions at the site.

1.8 BID ENCLOSURES/REQUIREMENTS

.1 Security Deposit

- .1 Each tender shall be accompanied by a Bid Bond and Agreement to Bond in the most recent form approved by the Canadian Construction Association from a Surety Company, acceptable to the Board. The Bid Bond shall be in the amount of [...10% of Base Bid...], together with an Agreement to Bond. The Bid Bond must be valid for a minimum of sixty (60) Calendar Days from the closing date. Tenders not accompanied by a Bid Bond and Agreement to Bond will be declared informal.
- .2 This Bid Bond shall be forfeited if the bidder declines to enter into a formal contract in the amount tendered, or as adjusted according to the separate prices included in the tender, and/or to furnish, when called upon to do so, a Performance Bond. This Bid Bond shall be accompanied by an Agreement from the Surety Company that a 50 % Performance Bond and a 50 % Labour and Material Payment Bond will be issued to the Bidder if the Bidder is awarded the contract. The cost of the Bonds shall be included in the amount of the Tender. Refer to the *CCDC 2-2020 Stipulated Price Contract and the Supplementary Conditions, as attached*, for further information.
- .3 Retention and use of the Bid Bond, as outlined above, shall not be deemed a penalty, but a consideration to the Board for inviting and considering the Tender and as part payment for sustained damages and costs incurred by the Board, which shall be deemed to be the difference between the bid price of this Bidder and the bid price of the next lowest Bidder acceptable to the Board.

- .4 A Performance Bond, equal to 50 % of the contract price, shall be furnished through a Surety Company or Insurance Company approved by the Consultant and the Board according to terms and conditions acceptable to the Board and the Consultant.
 - .5 On completion of the work, the Performance Bond shall remain in force as a MAINTENANCE BOND for a period of one (1) year from the date of acceptance of the building by the Board. It shall form a guarantee of workmanship and materials for the one (1) year period.
 - .6 Use latest edition CCDC approved bond forms.
- .2 Performance Assurance
- .1 The Bidder to whom the contract is awarded must properly sign the contract and furnish a satisfactory Performance Bond, Labour and Material Payment Bond, Insurance Certificate and Workers' Compensation Board Certificate within ten (10) Working Days of acceptance of the tender by the Board, or forfeit the Bid Bond.
 - .2 Labour and Material Payment Bond, equal to 50 % of contract, to be provided within ten (10) Working Days, stating that the Board will not be held responsible if payment to subcontractors, as certified due by the Consultant, is not made by the General Contractor when due.
 - .3 Tenders must include all costs involved in having the contract "Fit for Legal Occupancy and Substantial Performance" by **August 14th, 2026** and having the entire building Totally Completed by **August 21th, 2026**
 - .4 Persons or firms submitting tender proposals shall be actually engaged as their recognized business in the lines of work required by the specifications, and shall be able to refer to work of a similar character which has been satisfactorily performed by them.
- .3 Fees for Changes in Work
- .1 It must be clearly understood that the Board cannot accept any price variation in the supply or installation of products or labour or materials from those submitted and carried by the Contractor at the time of tender. During the contract period, the Board will not be responsible for, or entertain any price increase in the cost of materials or labour carried in the tender amount.
 - .2 The tender amount shall not include Harmonized Sales Taxes but shall include all other applicable excise taxes, custom duties, freight, exchange and all other charges in effect and known to come into effect during the construction work described in this Contract.
 - .3 Unit Prices are exclusive of Harmonized Sales Taxes.
 - .4 The successful Bidder must provide the Bidder's H.S.T. (Tax) Registration Number and each request for payment must show this number and the amount of H.S.T.(Tax) payable.
 - .5 At the time of tender submission, include *Separate Prices* listed in the Supplemental Form of Tender for the identified items. Express each In Lieu of Price as a Credit or an Extra to the amount tendered. Contract Amount will be

adjusted consistent with their acceptance or rejection by the Board. Separate Prices DO NOT include H.S.T.

.4 Unit Prices

- .1 UNIT PRICES FOR ADDITIONAL WORK SHALL NOT EXCEED UNIT PRICES FOR DEDUCTED WORK BY MORE THAN 20%.
- .2 Unit prices must be submitted at time of Tender.
- .3 The Board reserves the right to accept or reject any or all of the unit prices prior to entering into a contract.
- .4 The Board reserves the right to negotiate any or all of the unit prices with the low Bid Contractor prior to signing a contract
- .5 Refer to *CCDC 2-2020 Part 6 CHANGES IN THE WORK* regarding valuation of changes not covered by Unit Prices.

.5 Subcontractors

- .1 Bidders are required to submit the list of subcontractors. The list is to be submitted with tender, on the *Supplemental Form of Tender* included in the Contract Documents. The Bidder shall name in these lists the subcontractors proposed to perform the work under the contract. No substitutions to these lists shall be made without the written approval of the Consultants.
- .2 The selection of Subcontractors must be acceptable to the Board and to the Consultants. If the required substitution of a Subcontractor affects the sub-tender price, an adjustment will be made in the amount of the General Contract by the amount only of the difference in sub-tenders, without additional overhead or profit to the Contractor.
- .3 If the Bidder proposes to do work with persons directly employed by the Bidder and not subcontract, then the Bidder shall insert the words "*Own Forces*" provided the Bidder can submit proof that the Bidder's forces have had previous experience in this field.
- .4 Subcontractors shall be actually engaged as their own recognized business, in the line of work required by the specifications and shall carry out themselves the work which they are awarded by subcontract. They shall not be permitted to re-subcontract their work or portions thereof, to other contractors.

.6 Fair Wage and Labour

- .1 Rate of wages, hours and conditions of work shall be in accordance with Provincial Codes and as generally recognized and accepted in the locality. Building mechanics and labourers resident in the district are to be employed where suitable.

.7 Discrepancies and Omissions

- .1 Bidders, including subcontractors, finding specified items unavailable, finding discrepancies in, or omissions from, the drawings or specifications or other contract documents, or having any doubt as to the intent or meaning of any part thereof, shall at once notify the Consultant in writing, who will issue an Addendum to all bidders in explanation of the inquiry if necessary.

- .2 All definitions, explanations, corrections or additional information will be issued by the Consultant during the time of bidding in the form of typewritten addenda and such addenda will be available to all Bidders. These shall become part of the contract documents and **must** be shown on the Form of Tender as having been received.
- .3 NO ORAL INSTRUCTIONS WILL BE VALID.
- .8 Bidding Assumptions
 - .1 All bids submitted, are assumed to be based upon the complete set of Bid Documents.
- .9 Errors in Tender
 - .1 The Board shall not entertain requests for gratuitous payments arising from errors alleged to have been made in a tender which the Board has accepted
- .10 Building Permit
 - .1 Building Permit has been applied for by the Consultant and shall be paid for by the Board.
 - .2 The Contractor must, however, pay all other necessary fees, deposits and charges related to Municipal, Provincial and Federal Requirements. The General Contractor is responsible for determining the amounts of these permits, fees, etc.
- .11 Contract Documents
 - .1 The Contract shall be subject to the Requirements of the *CCDC 2-2020* Stipulated Price Contract and the Supplementary Conditions, as attached. The successful Bidder must sign the *CCDC 2-2020* Stipulated Price Contract as amended by the Supplementary Conditions using this document and these specifications and drawings, within ten (10) Working Days of notification of award. Failure to do so may result in termination of the award. The Contractor shall not be entitled to any payment until this document is signed.
 - .2 All Contractors will be held to have examined and made themselves familiar with the various articles of these Standard Documents and shall be as binding for all sections of the following specifications as though written in full therein.

1.9 OFFER ACCEPTANCE/ REJECTION

- .1 Privilege and Waiver of Non-Compliance
 - .1 Notwithstanding anything elsewhere herein set out, the lowest or any proposal will not necessarily be accepted by the Board, and the Board reserves the right in its sole discretion to reject any and all proposals at any time or to accept any proposal which is considered advantageous by the Board. Proposals which are non-compliant with the requirements of this Tender, or which contain qualifying conditions, may be disqualified or the Board may waive any non-compliance with the Tender documents, and in its sole discretion, retain for consideration proposals which are non-conforming or non-compliant.
- .2 Acceptance of Offer

- .1 It must be clearly understood that the final acceptance of this contract is subject to approvals of the Board and other bodies and these may delay final approval. There will be no adjustments in the tendered price for a period of sixty (60) Calendar Days from receipt of Tenders due to delays resulting from obtaining necessary approvals.
- .3 No Change in Pricing
 - .1 It must be clearly understood that the Board cannot accept any price variation in the supply or installation of products or labour or materials from those submitted and carried by the Contractor at the time of tender. During the contract period, the Board will not be responsible for, or entertain any price increase, in the cost of materials or labour carried in the tender amount for any reason, including acts of war or world events.
- .4 Withdrawl of Bids.
 - .1 Bidders may edit or withdraw their Bid Submission prior to the closing time and date. However, the Bidder is solely responsible to ensure the re-submitted bid is received by the Bidding System no later than the stated closing time and date.

Bids by hardcopy, telephone, email, or fax will not be accepted.

1.10 SPECIFICATION MANUAL AND INSPECTIONS

- .1 The Bidder must be aware that the Board has instructed the Consultant to prepare a painting specification based upon the *Painting Architectural Specification Manual* prepared by the Ontario Painting Contractors' Association, 211 Consumers Road, Suite 305, Willowdale, ON, M2J 4G8
- .2 The Specification consists of three main components
 - .1 Evaluation and Choice of Systems – Surface Preparation
 - .2 Approved Product/Manufacture Listing – Specification Guide
 - .3 Inspection and Guarantee Program
 - .4 Refer to the specifications for the first two components listed above. The Inspection Procedure will be complied with in every respect by the successful General Contractor and the Painting Contractor as follows:
 - .1 Upon issuance of a subcontract to the Painting Contractor, the General Contractor shall fill out our “*Request for Assignment of an Inspector*” Form. The Inspection fee, which is a percentage charge of the painting subcontract price, will be paid from the *Allowances* identified in the General Instructions. Provide a copy of the properly executed Inspector Form to the Consultant and confirm the accuracy of the subcontractor's painting bid.
- .5 The Form will contain the following information:
 - .1 Name of Contractor
 - .2 Name and Description of Project
 - .3 Name and Address of the Architect

- .4 Job Location
- .5 Project starting date
- .6 Contract Price
- .7 Commencement Date of painting.
- .6 The Association will assign an Inspector to the project.
- .3 The Painting Contractor must advise the Association office of the actual starting date of painting. Painting shall not commence until the Association has been notified and the Inspector makes the initial site visit.
- .4 The Painting Contractor must supply the Inspector with a schedule of materials intended for use on the job at the commencement of the painting.
- .5 During the painting application the frequency of inspections will be sufficient to ensure adequate Quality Control procedures in accordance with the Painting *Architectural Specification Manual* and the Specifications.
- .6 The Inspector will use Interim Inspection Reports during the Project. One copy of each of these reports will be given to the Painting Contractor, one copy to the General Contractor, and two copies to the Association office, one of which will be forwarded to the Consultant. On completion of the job, the final Inspection Report will be made and routed as noted.
- .7 The Inspector will be required to check for proper preparation of surfaces, specified number of coats, as specified in the Specifications and drawings.
- .8 Any deficiencies must be corrected before the Guarantee is issued and final payment for painting made by the Board.
- .9 The Guarantee must cover making good any defects in painting and decorating due to faulty workmanship or defective materials supplied by the Painting and Decorating Subcontractor which appear during a two year period, following “substantial” completion of the Contract or the date of “Fit for Occupancy”, whichever occurs first.

END OF SECTION

1.1 TENDER INFORMATION

NAME OF BIDDER: _____

TENDER CLOSE: **March 17th, 2026 at 2:00pm**

SUPPLEMENTAL TENDER FORM CLOSE:

March 17th, 2026 at 4:00pm

NAME OF PROJECT: **St Anne CES Renovation**

PROJECT NUMBER: **RFT 2026-11**

ELECTRONIC BID SUBMISSIONS ONLY, shall be received by the Bidding System.

Supplementary Form of Tender to be emailed to Stephen.butterworth@wcdsb.ca

1.2 ACKNOWLEDGEMENT RE EXAMINATION OF TENDER DOCUMENTS

- .1 Having carefully examined all of the drawings (Architectural, Structural, Mechanical, Electrical, Site Servicing and Landscape) and having carefully examined the Instructions to Bidders, the requirements of the *CCDC 2-2020 Stipulated Price Contract, as amended by the Supplementary Conditions, as attached*, and all of the attached Specifications; (Architectural, Structural, Mechanical, Electrical, Site Servicing and Landscape) including Addenda numbered as follows:

Addenda #.....to/and including Addenda
#.....

and, having visited the sites, investigated and examined all conditions affecting the Work, including soil reports and surveys, and other reports as included in the Tender Documents, the undersigned Bidder makes the offers set out below.

1.3 CASH ALLOWANCES

- .1 All allowances specified under Section 01 21 00 only amended as provided hereunder.

The Tender Amount includes the total Cash Allowance of **One Hundred Sixty-Four Thousand Nine Hundred Dollars (\$164,900.00)** not including Harmonized Sales Tax (HST). (*HST on Cash Allowance is not to be included in the Tender Amount*)

1.4 TENDER AMOUNT

- .1 The undersigned Bidder hereby offers to furnish all materials, labour, plant and equipment and to perform all duties and services called for by the ENTIRE WORK INCLUDING ALL TRADES for the Project named above for the stipulated sum of:

.....
(Written Value)

\$.....
(Numeric Value)

in lawful money of Canada, excluding Harmonized Sales Tax, but including all other applicable Excise Taxes, Custom Duties, Insurance's, Freight, Exchange and all other charges.

1.5 TENDER VALIDITY

- .1 The undersigned Bidder is hereby submitting a valid Tender and will enter into the *CCDC 2-2020 Stipulated Price Contract, as amended by the Supplementary Conditions, as attached*, if we are notified in writing of our Tender acceptance by THE BOARD within sixty (60) calendar days from the closing of the Tender.

1.6 BONDING

- .1 The undersigned Bidder encloses a Bid Bond in the amount of [10]% made out in the name of WATERLOO CATHOLIC DISTRICT SCHOOL BOARD.
- .2 It is a condition of this Agreement that if the above mentioned Tender is accepted, application for a 50% Performance Bond and a 50% Labour and Material Payment Bond must be completed with undersigned within ten (10) days of acceptance of the tender related thereto, otherwise this Agreement shall be null and void.

1.7 CONSTRUCTION SCHEDULE

- .1 The undersigned Bidder solemnly undertakes, as an integral part of our proposal and tender to:
 - (a) Have the buildings "Fit for Occupancy" by **August 14th, 2026**; and
 - (b) Have the Contract completed in its entirety by **August 21th, 2026**
- .2 The undersigned Bidder confirms that all appropriate costs, such as but not limited to winter heat, inclement weather protection and all overtime costs for all trades to meet the aforementioned schedule, have been included in our tender price to achieve this date.

- .3 The Bidder acknowledges and agrees that so long as a building permit is obtained and the Bidder is directed to commence Work within the sixty (60) calendar days following the Closing Date, even if such direction does not occur until the fifty-ninth (59th) day following the Closing Date, the Bidder shall not be entitled to a delay claim.
- .4 The undersigned Bidder acknowledges and agrees to comply with the terms and conditions of the Project Occupancy Requirements as outlined in the Supplementary Conditions, attached hereto

1.8 REQUIRED DOCUMENTS

- .1 If notified of the acceptance of this Tender via a Letter of Intent issued by the Board, the undersigned Bidder agrees to provide the prerequisite documentation within ten (10) days.

1.9 FEES FOR CHANGES IN THE WORK

- .1 The undersigned Bidder acknowledges and agrees that the fees referred to in *CCDC 2-2020 Stipulated Price Contract, as amended by the Supplementary Conditions, as attached*, will apply to changes in the Contract not covered by Unit Prices.

1.10 SUPPLEMENTARY FORM OF TENDER

- .1 The undersigned Bidder agrees to submit the *SUPPLEMENTARY FORM OF TENDER*, as attached, at Tender close, which shall including the following:
 - BID AND COST BREAKDOWN
 - LIST OF SUBCONTRACTORS / SUPPLIERS / INSTALLERS
 - SEPARATE PRICES - REQUESTED BY CONSULTANTS
 - UNIT PRICES
 - ITEMIZED PRICES - REQUESTED BY CONSULTANTS
 - ALTERNATE PRICES TO BASE BID
 - LIST OF ALTERNATIVE BIDS SUBMITTED FOR CONSIDERATION

1.11 DECLARATION OF NO CONFLICT

- .1 The undersigned Bidder hereby declares that this Tender submission is made in good faith and without any connection, knowledge, comparison of figures, or arrangements with any other company, firm, or person making a Tender for the same work and is, in all respects, fair and without collusion with any other bidder for this Contract, and without fraud. The undersigned also represents and warrants that, to the best of the undersigned's knowledge and belief, no actual or potential conflict of interest exists with respect to the submission of the Tender or performance of the Contract other than those disclosed hereunder. The undersigned confirms that, where the Board discovers that the undersigned has failed to disclose all actual or potential conflicts of interest, the Board may disqualify the undersigned or terminate any Contract awarded to the undersigned

pursuant to this Tender process. The undersigned understands that, for the purposes hereof, "conflict of interest" also includes:

- (a) in relation to the Tender process, the undersigned has an unfair advantage or engages in conduct, directly or indirectly, that may give the undersigned an unfair advantage, including:
 - (i) having or having access to information in the preparation of the undersigned's proposal that is confidential to the Board and not available to other bidders; communicating with any person with a view to influencing preferred treatment in the Tender process; or, engaging in conduct that compromises or could be seen to compromise the integrity of the open and competitive process and render that process non-competitive and unfair; or,
- (b) in relation to the performance of its contractual obligations in a Board contract, the undersigned's other commitments, relationships or financial interests:
 - (i) could or could not be perceived to exercise an improper influence over the objective, unbiased and impartial exercise of the Board's independent judgment; or,
 - (ii) could or could not be perceived to compromise, impair or be incompatible with the effective performance of the undersigned's contractual obligations.

1.12 MUNICIPAL FREEDOM OF INFORMATION AND PROTECTION OF PRIVACY ACT

- .1 This Tender and supporting documentation shall become the property of the Board. Information in a Tender is subject to potential disclosure to third parties after the award, in accordance with the provisions of the Municipal Freedom of Information and Protection of Privacy Act, R.S.O. 1990 ("MFOIPOP"). The Bidder acknowledges that any personal or confidential information which Bidders provide is being collected and will be used exclusively for the purposes of analyzing, evaluating and assessing Tenders submitted. Any information a Bidder wishes to identify as proprietary and have maintained as confidential, excluding unit pricing information as well as the total dollar value of the Tender, must be clearly identified as such, and any proposed restrictions on disclosure specified. For the purposes of a report to the Trustees of the Board, pricing information as well as the total dollar value of the Tender may be reported in a public report and will not be considered confidential. In addition, the Board may be ordered by the Information & Privacy Commissioner under the provisions of MFOIPOP to disclose additional information identified by a Bidder as proprietary and confidential.

1.13 LIMITATION OF LIABILITY

- .1 By submitting a Tender, the undersigned Bidder acknowledges and agrees that the Board will have no liability or obligation to any Tender except only that of the successful Bidder, if any, awarded the Contract by the Board, in its sole discretion. The Bidder also agrees that if the undersigned is not awarded the Contract, the Board shall be fully and forever released and discharged of all liability and obligations relating to this Request for Tender and all its submission procedures. All Bidders responding to this Request for Tender shall accept the decision of the Board as final and binding.

1.14 SIGNING OF TENDER

The undersigned Bidder is hereby submitting this Stipulated Sum Tender under a Corporate Seal or witnessed by an Individual.

PRINT COMPANY NAME: _____

PRINT ADDRESS OF COMPANY: _____

PRINT NAME OF CONTACT PERSON REGARDING THIS TENDER: _____

CONTACT PERSON'S EMAIL: _____

PHONE NUMBER OF COMPANY: _____

SIGNATURE OF SIGNING OFFICER: _____

DATE: _____

PRINT NAME OF SIGNING OFFICER: _____

PRINT TITLE OF SIGNING OFFICER: _____

SIGNATURE OF WITNESS: _____

PRINT NAME OF WITNESS: _____

AFFIX CORPORATE SEAL (If no individual Witness):

END OF SECTION

Submit this Supplementary Form of Tender at the close of General Tenders.

1.1 TENDER INFORMATION

TENDER CLOSE: **March 17th, 2026 at 2:00pm**

SUPPLEMENTAL TENDER FORM CLOSE:

March 17th, 2026 at 4:00pm

NAME OF PROJECT: **St Anne CES Renovation**

PROJECT NUMBER: **RFT 2026-11**

Submission Email Address: stephen.butterworth@wcdsb.ca

1.2 SUPPLEMENTARY LIST OF SUBCONTRACTORS

.1 I/We, the undersigned, propose to use the following Subcontractors and/or suppliers to perform work of this Contract, and I/we confirm that all have been investigated to confirm their reliability and competence to carry out the Work in accordance with the Contract Documents; and I/we agree that no changes from this may be made without the express written approval of the Board.

Extra costs to the Contract will not be considered for a Subcontractor/supplier substitution, regardless of the reason, except where a substitution is requested by the Owner.

Site Services _____

Asphalt Paving _____

Masonry _____

Structural Steel _____

Metal Fabrications _____

Cabinetwork _____

Sprayed Fireproofing _____

Roofing _____

Glazing _____

Gypsum Board and Acoustical Ceilings _____

Ceramic Tile _____

Resilient Flooring _____

Painting _____

Whiteboards and Tackboards _____

Gymnasium Equipment _____

Lift for Disabled _____

Electrical _____

Mechanical _____

1.3 SEPARATE PRICES

.1 Separate Price items do NOT replace or substitute items already in the Bid Documents. Accepted Separate Prices are to be in accordance with Section 002100 (Instructions to Bidders) excluding HST:

.1 (...Item...): \$ _____

1.4 ELECTRICAL UNIT PRICES:

.1 I/We enclose herewith Unit Prices, exclusive of applicable taxes, which are an integral part of the Bid. Unit prices are, in effect, for the duration of this Project's construction period, unit prices are exclusive of applicable taxes.

.2 The following unit costs will apply to all additional or deleted work from the Contract and should include their proportionate share of all labour equipment, materials, accessories, profits, overhead and taxes for a job completely installed. Applications of unit prices will be to the net difference of quantities of individual products and materials in each Proposed Change or Change Order.

.3 The unit prices will be used for additions and deletions. Credit rate for deletions shall be at 80% of original rates listed under sections 1.4, 1.5, 1.6, 1.7, 1.8, 1.9.

.4 Conduit and Cable:

Supply and install the following conduit and cables including fastenings, clips, connectors, coupling boxes, etc. as required based on length as shown.

MORE WORK

.1 25MM EC/3500mm Length \$ _____

.2 2 #12-12mm C/3500mm Length \$ _____

.3 3 #12-12mm C/3500mm Length \$ _____

.4 2 #10-19mm C/3500mm Length \$ _____

.5 3 #10-19mm C/3500mm Length \$ _____

- .6 3 #8- 19mm C/3500mm Length \$ _____
- .5 Receptacles:
Supply and installation of one duplex receptacle, shall include the receptacle box, cover plate, 5000mm of conduit and wiring, including connection to adjacent receptacle and/or outlet box.
MORE WORK
- .1 Supply and installation of one duplex receptacle \$ _____
- .6 Light Switches
Supply and installation of light switch shall include the switch box, cover plate, conduit, wiring and connection to box containing the lighting circuit.
MORE WORK
- .1 Supply and installation of one 347 volt light switch. \$ _____
- .7 Fire Alarm System:
MORE WORK
- .1 Supply and installation of one fire alarm pull station, including conduits, wiring and connections to the nearest fire alarm pull station. (Base conduit and wiring on 1500mm length). \$ _____
- .2 Supply and installation of one fire alarm cone speaker including conduit, wiring and connections to nearest fire alarm cone speaker. (Base conduit and wiring on 1500mm length). \$ _____
- .8 Lighting Fixtures:
Supply and installation of the following lighting fixtures. The supply and installation of lighting fixtures shall include the fixtures, flexible conduit, wiring and connection to nearest outlet box containing 347 and/or 120 volt circuits and the supply and installation of the lamps. (Base conduit and wiring on 4500mm length).
MORE WORK
- .1 Supply and installation of one type 'A' fixture \$ _____
- .2 Supply and installation of one type 'B' fixture \$ _____
- .3 Supply and installation of one type 'C' fixture \$ _____

.4 Supply and installation of one type
'E' fixture \$ _____

1.5 LABOUR RATES

I/We enclose herewith Labour Rates which are an integral part of the Tender. Labour rates are in effect for the duration of this Project's construction period. The Owner is not obligated to accept Labour rates indicated.

.1 Mechanical Labour Rates

Labour at the following rates should be applied for additions or deletions to the work not covered by unit prices. The prices consist of salary, all agreed local union benefits. The rate quoted represents the net cost to the Contractor, exclusive of overhead and profit and applicable taxes.

.1 Plumbing & Drainage Tradesmen \$ _____ Per Hour

.2 HVAC Piping Tradesman \$ _____ Per Hour

.3 Insulation Tradesmen \$ _____ Per Hour

.4 Sheet Metal Tradesmen

.1 Shop \$ _____ Per Hour

.2 Field \$ _____ Per Hour

.5 (Other) \$ _____ Per Hour

.6 Sprinkler Pipefitter & Installer \$ _____ Per Hour

.7 Sprinkler Work Office/Engineer \$ _____ Per Hour

1.6 SPRINKLER SUB-CONTRACTOR CASA MEMBERSHIP

Sprinkler Contractor shall be a paid member, and in good standing at time of Tender, of the Canadian Automatic Sprinkler Association. Attach membership certificate to this Supplementary Form of Tender.

.1 Labour at the following rates shall be applied for additions or deletions to the work not covered by unit prices. The prices consist of salary, all agreed local union benefits. The rate quoted represents the net cost to the Contractor, exclusive of overhead and profit and applicable taxes.

.1 Journeyman \$ _____ Per Hour

.2 Foreman \$ _____ Per Hour

1.7 MECHANICAL MANUFACTURERS AND SUPPLIERS:

I/We enclose herewith a list of Manufacturers and Suppliers to the Mechanical Building Services which is an integral part of the Tender. We hereby agree that the Owner may select from any substitutes that we have offered in our Tender. Our Tender Price is based on the equipment/manufacturers indicated hereunder and we hereby agree that we will not alter the indicated equipment/manufacturers unless specifically authorized by the Owner.

I/We, the undersigned, have inserted below proposed substitutions and prices for the Owner's consideration.

I/We agree that:

- .1 all prices submitted take into consideration and allow for changes and adjustments in other work as may be necessary to provide a finished and functional result, unless specifically indicated otherwise;
- .2 alternative prices are for work which is not included in the Tender price listed on Form of Tender but which may be substituted by the Owner for work which is included (no price listed shall mean no change in cost);
- .3 and that the Board reserves the right to accept or reject any of the prices proposed hereunder;
- .4 prices listed hereunder do not include HST

<u>Product/Equipment Specified</u>	<u>Proposed Substitution</u>	<u>Reduction in Contract Price</u>
.1 _____		\$ _____
.2 _____		\$ _____
.3 _____		\$ _____
.4 _____		\$ _____
.5 _____		\$ _____
.6 _____		\$ _____

Attach additional sheets and supporting documentation, if necessary.

1.8 STANDARDS OF MECHANICAL MATERIALS

BASE BID ITEM	ACCEPTABLE BASIS OF DESIGN	ALTERNATE
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Pipe Hangers	Grinnell	Crane, Flamco, Unistrut
Mechanical Grooved Joints	Victaulic	Coupcoc, Gruvlok
Unions	Crane	Grinnell, Dart
Expansion Joints	Flexonics	Amtrol, Hydroflex Tube Turn
Gate, Globe & Ball Valve	Crane	Jenkins, Toyo/R+W Kitz
Check Valves	Crane	Jenkins, Toyo/R+W Kitz
Plug Valves	DeZurick	NEO
Circuit Balancing Valves	Tour and Andersson	
Butterfly Valves	Crane	Jenkins, Centerline, Kitz, Toyo
Thermal Insulation	Fiberglas Canada	Manson, Knauf Johns-Manville
Pumps & Circulators (Except as noted)	S.A. Armstrong	ITT Fluids
Extended Shaft Coupling VIL Pumps	S.A. Armstrong	ITT Fluids
Strainers	Sarco	Crane, McAvity, Morrison Brass, Braukmann
Suction Guides	S.A. Armstrong	ITT Fluids, Victualic
Automatic Air Vents	Sarco	Amtrol, Braukmann S.A. Armstrong Terice
BASE BID ITEM	ACCEPTABLE BASIS OF DESIGN	ALTERNATE
Backflow	Watts	Braukmann,

Preventors		Zurn-Wilkins
Make-Up Assemblies	Watts	S.A. Armstrong, Bell & Gossett, Mueller, Singer
Gauges, Thermometers	Terice	Ashcroft, Weiss Weksler, Winters, Wika
Finned Tube Radiation and Convectors	Sigma	Dunham-Bush, Trane Engineered Air
Hot Water Unit Heaters and Cabinet Heaters	Sigma	Dunham-Bush, McQuay, Trane, Engineered Air
Steam Humidifiers	Engineered Air	Dri Steem
Hot Water Boilers	Boderus	
Prefabricated Chimneys	Van-Packer	Metal-Fab, Selkirk, ICC
Water Treatment	Aqurian	Alchem, Mogul, Culligan, Finnan
Fire Dampers	Controlled Air	Air Balance, Canadian Advanced Air, Ruskin
Louvre Insulated Blank-off Panels	Construction Specialties	
Air Terminal Devices (Diffusers, Registers, Grilles By-Pass Boxes)	E.H. Price	Nailor, Kruger, Carnes, Titus Tuttle & Bailey
Air Handling Unit	Engineered Air	McQuay, Trane, Haakon
BASE BID ITEM	ACCEPTABLE BASIS OF DESIGN	ALTERNATE
Heat Recovery Unit	Engineered Air	McQuay, Trane, Haakon
Fan Coil Units	Enviro-Tech	Trane, York

Misc. Fans	Cook	Carnes, Greenheck, ACME, Jenn-Air
Air Filters	Farr	Cambridge, Airguard, Vibron, A.A.F.
Filter Gauges	Dwyer	Airflow Developments (Canada) Ltd.
Dampers (Except low leakage)	Tamco	Johnson, Powers, Kerr Hunt, Honeywell, Barber-Coleman
Low Leakage Dampers	Tamco Series 9000	
Electrical Starters, Disconnects, MCC's, Alternator Panels	Square 'D'	Allen-Bradley, Klockner-Moeller
Noise and Vibration Control	Vibron	Korfund-Sampson, Vibro-Acoustics, Coolbreeze J.P. Environmental
Electric Pipe Tracing	Raychem	Serge-Baril
Trap Primers	PPP	
Plumbing Fixtures	American Standard	Crane, Kohler, Eljer
Floor Drains, Roof Drains, Cleanouts, Drainage Specialties	Zurn	Ancon J.R. Smith Mifab
Plumbing Trim	Chicago Faucets, Symmons	American Standard, Crane, Cambridge Brass

BASE BID	ACCEPTABLE		
ITEM	BASIS OF DESIGN	ALTERNATE	
Toilet Seats	Centoco	Beneke, Moldex, Olsonite	
Domestic Water Heaters	Bradford-White	A.O. Smith, John Wood	
Fire Extinguishers & Cabinets	National Fire Equipment	Wilson & Cousins	
Washfountains	Bradley, Acorn		
S.S. Sinks	Aristaline	Kindred, Architectural Metal	
Drinking Fountains	Haws	Sunroc	
Emergency Eyewash	Haws	Bradley, Speakman	
Mixing Valves	Symmons	Powers	
Alarm Valves And Trim	Grinnell, Central	Reliable, Viking, Automatic, Victaulic	
Siamese Connections	National Fire Equipment	Wilson & Cousins, Stelpro	
Sprinkler Heads	Grinnell, Central	Reliable, Viking, Automatic, Victaulic	
Equipment Cabinets	National Fire Equipment	Wilson & Cousins, Stelpro	
Excess Pressure Pump	Albany		

1.9 ITEMIZED PRICES

These Itemized Prices will be used to identify the cost of components within the total Bid Sum required for the Owner's own internal auditing, exclusive of HST.

- .1 Supply and installation of Fire Alarm System complete with associated components, conduit and wiring as shown on drawing and described in specification.

_____ Dollars (\$_____)

- .2 Supply and installation of Dimming System complete with associated components, conduit and wiring as shown on drawing and described in specification.

_____ Dollars (\$_____)

- .3 Supply and installation of Security System complete with associated components, conduit and wiring as shown on drawing and described in specification.

_____ Dollars (\$_____)

1.10 SIGNING OF SUPPLEMENTARY FORM OF TENDER

PRINT COMPANY NAME: _____

PRINT NAME OF CONTACT PERSON
REGARDING THIS TENDER: _____

PRINT ADDRESS OF COMPANY: _____

PHONE NUMBER OF COMPANY: _____

PRINT NAME OF CONTACT PERSON
REGARDING THIS TENDER: _____

CONTACT PERSON'S EMAIL: _____

EMAIL ADDRESS SIGNING OFFICER: _____

SIGNATURE OF SIGNING OFFICER: _____

DATE: _____

PRINT NAME OF SIGNING OFFICER: _____

PRINT TITLE OF SIGNING OFFICER: _____

SIGNATURE OF WITNESS: _____

PRINT NAME OF WITNESS: _____

AFFIX CORPORATE SEAL (If no individual Witness):

END OF SECTION



Waterloo Catholic
District School Board

**SUPPLEMENTARY CONDITIONS
AMENDMENTS TO CCDC 2 – 2020
STIPULATED PRICE CONTRACT (Version May 2022)**

- 1 -



**Waterloo Catholic
District School Board**

**SUPPLEMENTARY CONDITIONS &
AMENDMENTS TO STANDARD CONSTRUCTION
DOCUMENT CCDC2 -2020 STIPULATED PRICE
CONTRACT**

(the “Supplementary Conditions”)

**AGREEMENT, DEFINITIONS, AND
GENERAL CONDITIONS**



SUPPLEMENTARY CONDITIONS
AMENDMENTS TO CCDC 2 – 2020
STIPULATED PRICE CONTRACT (Version May 2022)

- 2 -

The Standard Construction Document CCDC 2 2020 for a Stipulated Price Contract, English version, consisting of the Agreement Between *Owner* and Contractor, Definitions and General Conditions of the Stipulated Price Contract, Parts 1 to 13 inclusive, governing same, together with the changes with the new *Construction Act* is hereby made part of these *Contract Documents*, with the following amendments, additions and modifications:

AGREEMENT BETWEEN OWNER AND CONTRACTOR

SC1 ARTICLE A-1 – THE WORK

SC1.1	A-1.3	<p><u>Amend</u> Article A-1.3 by <u>deleting</u> all of the words after “<i>Contract Documents</i>” and <u>replace</u> them with the following”</p> <p>“attain</p> <p>.1 <i>Substantial Performance of the Work</i> by the [] day of [] in the year 20 []</p> <p>.2 (if applicable) <i>Occupancy</i> by the [] day of [] in the year 20 [], and</p> <p>.3 <i>Ready-for-Takeover</i> by the [] day of [] in the year 20 [].”</p>
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SC2 ARTICLE A-3 – CONTRACT DOCUMENTS

SC2.1	A-3.1	<p><u>Add</u> the following documents to the list of <i>Contract Documents</i> in Article A-3.1:</p> <ul style="list-style-type: none"> • Waterloo Catholic District School Board’s Supplementary Conditions & Amendments to Standard Construction Document CCDC2-2020 Stipulated Price Subcontract, May 2022 Version, including any Special Supplementary Conditions listed in Appendix 2 thereto • <i>Drawings</i> • <i>Specifications</i> • Performance Bond (Form 32 -Performance Bond under Section 85.1 of the <i>Act</i>) • Labour and Material Payment Bond (Form 31 – Labour and Material Payment Bond under Section 85.1 of the <i>Act</i>)
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SC3 ARTICLE A-4 – CONTRACT PRICE

SC3.1	A-4.4	<p><u>Delete</u> Article A-4.4 and <u>replace</u> it with the following:</p> <p>“4.4 The <i>Contract Price</i> shall remain fixed for the duration of the <i>Contract Time</i>, subject only to adjustments as provided for in the <i>Contract Documents</i>. For certainty, and without limiting the general application of the preceding sentence, the <i>Contractor</i> assumes all risks in connection with cost increases for overhead, <i>Products</i>, <i>Labour</i>, and <i>Construction Equipment</i> prescribed by the <i>Contract Documents</i> for the performance of the <i>Work</i>, and the <i>Contractor</i> assumes all responsibility for liabilities and additional costs that may arise as a result of the <i>Contractor’s</i> inclusion of any <i>Product</i>, <i>Construction Equipment</i>, <i>Supplier</i>, or <i>Subcontractor</i> in its calculation of the <i>Contract Price</i>.”</p>
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SC4 ARTICLE A-5 – PAYMENT

SC4.1	A-5.1	<p><u>Delete</u> Article A- 5.1 in its entirety including all subparagraphs and <u>replace</u> it with the following:</p>
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SUPPLEMENTARY CONDITIONS
AMENDMENTS TO CCDC 2 – 2020
STIPULATED PRICE CONTRACT (Version May 2022)

		<p>“5.1 Subject to the provisions of the <i>Contract Documents</i> and the <i>Construction Act</i>, the <i>Owner</i> shall:</p> <ul style="list-style-type: none"> .1 make progress payments to the <i>Contractor</i> on account of the <i>Contract Price</i> when due together with such <i>Value Added Taxes</i> as may be applicable to such payments, .2 upon <i>Substantial Performance of the Work</i> as certified by the <i>Consultant</i>, and on the 61st day after the publication of the certificate of <i>Substantial Performance of the Work</i>, in accordance with the <i>Construction Act</i>, there being no claims for lien registered against the title to the <i>Place of the Work</i> and no written notices of lien delivered to the <i>Owner</i>, pay the <i>Contractor</i> the unpaid balance of the holdback, together with such <i>Value Added Taxes</i> as may be applicable to such payment, less any amount stated in the <i>Owner’s Notice of Non-Payment</i>. .3 after <i>Ready-for-Takeover</i> has been achieved in accordance with the <i>Contract Documents</i> and the <i>Work</i> is complete, there being no claims for lien registered against the title to the <i>Place of the Work</i> and no written notices of lien delivered to the <i>Owner</i>, pay the <i>Contractor</i> any unpaid balance of the <i>Contract Price</i> in accordance with GC 5.5 – FINAL PAYMENT, together with such <i>Value Added Taxes</i> as may be applicable to such payment.”
SC 4.2	A-5.2.1	<p><u>Delete</u> subparagraph 5.2.1 in its entirety and <u>replace</u> it with the following:</p> <p>“.1 Should either party fail to make payments as they become due under the terms of the <i>Contract</i> or in an award by arbitration or court, interest shall also become due and payable on such unpaid amounts at the prejudgment interest rate prescribed by the <i>Courts of Justice Act</i> (Ontario), as it may change from time to time.”</p>

SC5 *NEW* ARTICLE A-9 – CONFLICT OF INTEREST

SC5.1	A-9	<p><u>Add</u> new ARTICLE A-9 CONFLICT OF INTEREST as follows:</p> <p>“ARTICLE A-9 CONFLICT OF INTEREST</p> <p>9.1 The <i>Contractor</i>, <i>Subcontractors</i> and <i>Suppliers</i> and any of their respective advisors, partners, directors, officers, employees, agents, and volunteers shall not engage in any activity or provide any services where such activity or the provision of such services creates a conflict of interest (actually or potentially, in the sole opinion of the <i>Owner</i>) with the provision of the <i>Work</i> pursuant to the <i>Contract</i>. The <i>Contractor</i> acknowledges and agrees that a conflict of interest, as described in this Article A-9, includes, but is not limited to, the use of <i>Confidential Information</i> where the <i>Owner</i> has not specifically authorized such use.</p> <p>9.2 The <i>Contractor</i> shall disclose to the <i>Owner</i>, in writing, without delay, any actual or potential situation that may be reasonably interpreted as either a conflict of interest or a potential conflict of interest, including the retention of any <i>Subcontractor</i> or <i>Supplier</i> that is directly or indirectly affiliated with or related to the <i>Contractor</i>.</p> <p>9.3 The <i>Contractor</i> covenants and agrees that it will not hire or retain the services of any employee or previous employee of the <i>Owner</i> where to do so constitutes a breach by such employee or previous employee of the <i>Owner’s</i> conflict of interest policy, as it may be amended from time to time, until after completion of the <i>Work</i> under the <i>Contract</i>.</p> <p>9.4 It is of the essence of the <i>Contract</i> that the <i>Owner</i> shall not have direct or indirect liability to any <i>Subcontractor</i> or <i>Supplier</i>, and that the <i>Owner</i> relies on the maintenance of an arm's-length relationship between the <i>Contractor</i> and its</p>
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SUPPLEMENTARY CONDITIONS
AMENDMENTS TO CCDC 2 – 2020
STIPULATED PRICE CONTRACT (Version May 2022)

		<p><i>Subcontractors and Suppliers.</i> Consistent with this fundamental term of the <i>Contract</i>, the <i>Contractor</i> will not enter into any agreement or understanding with any <i>Subcontractor or Supplier</i>, whether as part of any contract or any written or oral collateral agreement, pursuant to which the parties thereto agree to cooperate in the presentation of a claim for payment against the <i>Owner</i>, directly or through the <i>Contractor</i>, where such claim is, in whole or in part, in respect of a disputed claim by the <i>Subcontractor or Supplier</i> against the <i>Contractor</i>, where the payment to the <i>Subcontractor or Supplier</i> by the <i>Contractor</i> is agreed to be conditional or contingent on the ability to recover those amounts or a portion thereof from the <i>Owner</i>, failing which the <i>Contractor</i> shall be saved harmless from all or a portion of those claims. The <i>Contractor</i> acknowledges that any such agreement would undermine the required arm's-length relationship and constitute a conflict of interest. For greater certainty, the <i>Contractor</i> shall only be entitled to advance claims against the <i>Owner</i> for amounts pertaining to <i>Subcontractor or Supplier</i> claims where the <i>Contractor</i> has actually paid or unconditionally acknowledged liability for those claims or where those claims are the subject of litigation or binding arbitration between the <i>Subcontractor or Supplier</i> and the <i>Contractor</i> has been found liable for those claims.</p> <p>9.5 Notwithstanding paragraph 7.1.2 of GC 7.1 - OWNER'S RIGHT TO PERFORM THE WORK, TERMINATE THE CONTRACTOR'S RIGHT TO CONTINUE WITH THE WORK, OR TERMINATE THE CONTRACT, a breach of this Article A-9 by the <i>Contractor</i>, any of the <i>Subcontractors</i>, or any of their respective advisors, partners, directors, officers, employees, agents, and volunteers shall entitle the <i>Owner</i> to terminate the <i>Contract</i>, in addition to any other rights and remedies that the <i>Owner</i> has in the <i>Contract</i>, in law, or in equity."</p>
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SC6 *NEW* ARTICLE A-10 TIME OF THE ESSENCE

SC6.1	Article A-10	<p><u>Add</u> the following new Article A-10 as follows:</p> <p>“ARTICLE A-10 TIME OF THE ESSENCE</p> <p>10.1 It is agreed that one of the reasons the <i>Contractor</i> was selected by the <i>Owner</i> for this <i>Contract</i> is the <i>Contractor's</i> representation and covenant that it will attain <i>Substantial Performance, Occupancy</i> (if applicable), and <i>Ready-for-Takeover</i> within the <i>Contract Time</i> stated in Article A-1 of this <i>Contract</i>.</p> <p>10.2 The <i>Contractor</i> acknowledges and agrees that it is responsible to marshal its resources and those of its <i>Subcontractors and Suppliers</i> in a manner which will permit timely attainment of <i>Substantial Performance, Occupancy</i> (if applicable), and <i>Ready-for-Takeover</i>. The <i>Contractor</i> agrees that time is of the essence of this <i>Contract</i>.”</p>
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SC7 DEFINITIONS

Revisions to Existing Definitions		
SC7.1	Consultant	<p><u>Amend</u> the definition of “Consultant” by <u>adding</u> the following to the end of the definition:</p> <p>“For the purposes of the <i>Contract</i>, the terms “<i>Consultant</i>”, “<i>Architect</i>” and “<i>Engineer</i>” shall be considered synonymous.”</p>



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SC7.2	Payment Legislation/Construction Act	<p><u>Delete</u> the Definition of <i>Payment Legislation</i> and replace it with “Construction Act” as follows:</p> <p>“Construction Act</p> <p><i>Construction Act</i> means the <i>Construction Act</i>, R.S.O. 1990, c. C.30, as amended, including all regulations passed under it that are enforceable as of the date of execution of this <i>Contract</i>. For certainty, the first procurement process for the <i>Project</i> (i.e., the “improvement” as that term is defined in the <i>Construction Act</i>) was commenced on or after October 1, 2019.”</p>
SC7.3	Ready-for-Takeover	<p><u>Amend</u> the Definition of <i>Ready-for-Takeover</i> by deleting all the words after “as verified” and replacing them with “and approved by the <i>Owner</i>.”</p>
New Definitions		
SC7.4	Adjudication	<p><u>Add</u> the following definition:</p> <p>“Adjudication</p> <p><i>Adjudication</i> means construction dispute interim adjudication as defined under the <i>Construction Act</i>.”</p>
SC7.5	Close-Out Documentation	<p><u>Add</u> the following new definition:</p> <p>“Close-Out Documentation</p> <p><i>Close-Out Documentation</i> has the meaning given to it under GC 5.4.2.”</p>
SC7.6	Confidential Information	<p><u>Add</u> the following definition:</p> <p>“Confidential Information</p> <p><i>Confidential Information</i> means all the information or material of the <i>Owner</i> that is of a proprietary or confidential nature, whether it is identified as proprietary or confidential or not, including but not limited to information and material of every kind and description (such as drawings and move-lists) which is communicated to or comes into the possession or control of the <i>Contractor</i> at any time, but <i>Confidential Information</i> shall not include information that:</p> <ol style="list-style-type: none"> .1 is or becomes generally available to the public without fault or breach on the part of the <i>Contractor</i>, including without limitation breach of any duty of confidentiality owed by the <i>Contractor</i> to the <i>Owner</i> or to any third party, but only after that information becomes generally available to the public; .2 the <i>Contractor</i> can demonstrate to have been rightfully obtained by the <i>Contractor</i> from a third party who had the right to transfer or disclose it to the <i>Contractor</i> free of any obligation of confidence; .3 the <i>Contractor</i> can demonstrate to have been rightfully known to or in the possession of the <i>Contractor</i> at the time of disclosure, free of any obligation of confidence; or .4 is independently developed by the <i>Contractor</i> without use of any <i>Confidential Information</i>.”
SC7.7	Construction Schedule	<p><u>Add</u> the following definition:</p> <p>“Construction Schedule</p> <p><i>Construction Schedule</i> means the schedule for the performance of the <i>Work</i> provided by the <i>Contractor</i>, and approved by the <i>Owner</i>, pursuant to GC 3.4.1, including any amendments to the <i>Construction Schedule</i> made pursuant to the <i>Contract Documents</i>.”</p>



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SC7.8	Construction Schedule Update	<p><u>Add</u> the following definition:</p> <p>“Construction Schedule Update</p> <p><i>Construction Schedule Update</i> means an update to the <i>Construction Schedule</i> by the <i>Contractor</i> using Microsoft Project (or other approved scheduling software) that accurately depicts the progress of the <i>Work</i> relative to the critical path established in the <i>Construction Schedule</i> approved in GC 3.5.1 (or any approved successor <i>Construction Schedule</i>), aligns with the currently approved date for <i>Substantial Performance of the Work</i>, shows up-to-date projected major activity sequences and durations, and shows any changes or delays in anticipated completion dates of major activities in the <i>Work</i> relative to the last <i>Construction Schedule Update</i>, and includes the following minimum deliverables:</p> <p style="padding-left: 40px;">(a) a record version of the updated <i>Construction Schedule</i> in .pdf format;</p> <p style="padding-left: 40px;">(b) an editable copy of the updated original digital file of the <i>Construction Schedule</i> (e.g., .mpp format files for Microsoft Project).”</p>
SC7.9	Direct Costs	<p><u>Add</u> the following definition:</p> <p>“Direct Costs</p> <p><i>Direct Costs</i> are the reasonable costs of performing the contract or subcontract including costs related to the additional supply of services or materials (including equipment rentals), insurance and surety bond premiums, and costs resulting from seasonal conditions, that would not have been incurred, but do not include indirect damages suffered, such as loss of profit, productivity or opportunity, or any head office overhead costs.”</p>
SC7.10	EFT	<p><u>Add</u> the following definition:</p> <p>“EFT</p> <p><i>EFT</i> has the definition given to it under GC 5.3.2.”</p>
SC7.11	Excess Soil	<p><u>Add</u> the following definition:</p> <p>“Excess Soil</p> <p><i>Excess Soil</i> means “excess soil” as that term is defined under section 3 of the <i>Excess Soil Regulation</i>.”</p>
SC7.12	Excess Soil Regulation	<p><u>Add</u> the following Definition:</p> <p>“Excess Soil Regulation</p> <p><i>Excess Soil Regulation</i> means O. Reg. 406/19: On-Site and Excess Soil Management to the <i>Environmental Protection Act</i>, R.S.O. 1990, c. E.19.”</p>
SC7.13	Final Pre-Invoice Submission Meeting	<p><u>Add</u> the following definition:</p> <p>“Final Pre-Invoice Submission Meeting</p> <p><i>Final Pre-Invoice Submission Meeting</i> has the meaning given to it in GC 5.5.1.”</p>



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SC7.14	Force Majeure	<p><u>Add</u> the following definition:</p> <p>“Force Majeure</p> <p><i>Force Majeure</i> means any cause, unknown at the effective date of the <i>Contract</i> and beyond either party’s control, other than financial difficulties, bankruptcy or insolvency, which prevents the performance by a party, or both, of any of their respective obligations under the <i>Contract</i> and the event of <i>Force Majeure</i> did not arise from a party’s default and could not be avoided or mitigated by the exercise of reasonable effort or foresight. <i>Force Majeure</i> includes <i>Labour Disputes</i>; fire; unusual delay by common carriers or unavoidable casualties; delays in obtaining third-party licences, permits, agreements, or approvals (excluding approvals of any <i>Subcontractors</i> or <i>Suppliers</i> of any tier); civil disturbance; emergency acts, orders, legislation, regulations or directives of any government or other public authority; acts of a public enemy; war; riot; sabotage; blockage; embargo; lightning; earthquake; adverse weather conditions but only if substantially beyond the weather norms of the <i>Place of the Work</i>; acts of God; or declared epidemic or pandemic outbreak or other public health emergency (e.g. SARS, COVID-19).”</p>
SC7.15	Install	<p><u>Add</u> the following definition:</p> <p>“Install</p> <p><i>Install</i> means install and connect. <i>Install</i> has this meaning whether or not the first letter is capitalized.”</p>
SC7.16	Labour Dispute	<p><u>Add</u> the following definition:</p> <p>“Labour Dispute</p> <p><i>Labour Dispute</i> means any lawful or unlawful labour problems, work stoppage, labour disruption, strike, job action, slow down, lock-outs, picketing, refusal to work or continue to work, refusal to supply materials, cessation or work or other labour controversy which does, or might, affect the <i>Work</i>.”</p>
SC7.17	Notice of Non-Payment	<p><u>Add</u> the following definition:</p> <p>“Notice of Non-Payment</p> <p><i>Notice of Non-Payment</i> means a notice of non-payment of holdback (Form 6) or a notice of non-payment (Form 1.1) under the <i>Act</i>, as applicable to the circumstances.”</p>
SC7.18	OHSA	<p><u>Add</u> the following definition:</p> <p>“OHSA</p> <p><i>OHSA</i> means the <i>Occupational Health and Safety Act</i>, R.S.O. 1990, c. O.1, as amended, including all regulations thereto.”</p>
SC7.19	Overhead	<p><u>Add</u> the following definition:</p> <p>“Overhead</p> <p><i>Overhead</i> means all site and head office operations and facilities, all site and head office administration and supervision; all duties and taxes for permits and licenses required by the authorities having jurisdiction at the <i>Place of the Work</i>; all requirements of Division 1, including but not limited to submittals, warranty, quality control, calculations, testing and inspections; meals and accommodations; and, tools, expendables and clean-up costs.”</p>



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SC7.20	Payment Period	<p><u>Add</u> the following definition:</p> <p>“Payment Period</p> <p><i>Payment Period</i> has the definition given to it under GC 5.2.1.”</p>
SC7.21	Pre-Invoice Submission Meeting	<p><u>Add</u> the following definition:</p> <p>“Pre-Invoice Submission Meeting</p> <p><i>Pre-Invoice Submission Meeting</i> has the definition given to it under GC 5.2.1.”</p>
SC7.22	Proper Invoice	<p><u>Add</u> the following definition:</p> <p>“Proper Invoice</p> <p><i>Proper Invoice</i> means a “proper invoice” as that term is defined in Section 6.1 of the <i>Act</i>, including the minimum requirements set out in Appendix “1” of the Supplementary Conditions.”</p>
SC7.23	Proper Invoice Submission Date	<p><u>Add</u> the following definition:</p> <p>“Proper Invoice Submission Date</p> <p><i>Proper Invoice Submission Date</i> has the definition given to it under GC 5.2.2.1.”</p>
SC7.24	Request for Information (RFI)	<p><u>Add</u> the following definition:</p> <p>“Request for Information (RFI)</p> <p><i>Request for Information</i> or <i>RFI</i> means written documentation sent by the <i>Contractor</i> to the <i>Owner</i> or to the <i>Owner’s</i> representative or the <i>Consultant</i> requesting written clarification(s) and/or interpretation(s) of the <i>Drawings</i> and/or <i>Specifications</i>, <i>Contract</i> requirements and/or other pertinent information required to complete the <i>Work</i> of the <i>Contract</i> without applying for a change or changes to the <i>Work</i>.”</p>
SC7.25	Restricted Period	<p><u>Add</u> the following definition:</p> <p>“Restricted Period</p> <p><i>Restricted Period</i> means the (inclusive) period of time between December 1 to January 8 and August 15 to September 15 of any given year throughout the duration of the <i>Contract</i>.”</p>

GENERAL CONDITIONS OF THE STIPULATED PRICE CONTRACT

Where a General Condition or paragraph of the General Conditions of the *Contract* is deleted by these amendments, the numbering of the remaining General Conditions or paragraphs shall remain unchanged, unless stated otherwise herein, and the numbering of the deleted item will be retained, unused.

PART 1 GENERAL PROVISIONS

SC8 GC 1.1 CONTRACT DOCUMENTS

SC8.1	1.1.3	<p><u>Delete</u> GC 1.1.3 in its entirety and <u>replace</u> it with the following:</p> <p>“1.1.3 The <i>Contractor</i> shall review the <i>Contract Documents</i> and shall report promptly to the <i>Consultant</i> any error, inconsistency, or omission the <i>Contractor</i> may discover. Such review by the <i>Contractor</i> shall be undertaken with the standard of care described in GC 3.13.1. Except for its obligation to make such review and report the result, the</p>
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		<p><i>Contractor</i> does not assume any responsibility to the <i>Owner</i> or to the <i>Consultant</i> for the accuracy of the <i>Contract Documents</i>. Provided it has exercised the degree of care and skill described in this GC 1.1.3, the <i>Contractor</i> shall not be liable for damage or costs resulting from such errors, inconsistencies, or omissions in the <i>Contract Documents</i>, which the <i>Contractor</i> could not reasonably have discovered through the exercise of the required standard of care.”</p>
SC8.2	1.1.4	<p><u>Delete</u> GC 1.1.4 in its entirety and <u>replace</u> it with the following:</p> <p>“1.1.4 Except for the obligation to complete the review prescribed in GC 1.1.3, and report the results as set out in this GC 1.1.4, the <i>Contractor</i> is not responsible for errors, omissions or inconsistencies in the <i>Contract Documents</i>. If there are errors, omissions or inconsistencies discovered by or made known to the <i>Contractor</i> as part of its review under GC 1.1.3 or at any time during the performance of the <i>Work</i>, the <i>Contractor</i> shall immediately notify the <i>Consultant</i>, and request instructions, a <i>Supplemental Instruction</i>, <i>Change Order</i>, or <i>Change Directive</i>, as the case may require, and shall not proceed with the <i>Work</i> affected until the <i>Contractor</i> has received corrected or additional information from the <i>Consultant</i>. The <i>Contractor</i> shall not be liable for damage or costs resulting from such errors, inconsistencies, or omissions in the <i>Contract Documents</i>, which the <i>Contractor</i> could not reasonably have discovered through the exercise of care and skill described in GC 3.13.”</p>
SC8.3	1.1.5.1	<p><u>Delete</u> GC 1.1.5.1 and <u>replace</u> with the following:</p> <p>“.1 the order of priority of documents, from highest to lowest, shall be:</p> <ul style="list-style-type: none"> .1 Supplementary Conditions; .2 the Agreement between the Owner and the Contractor; .3 the Definitions; .4 the General Conditions; .5 Division 01 of the <i>Specifications</i> .6 technical <i>Specifications</i>; .7 material and finishing schedules; and .8 the <i>Drawings</i>.
SC8.4	1.1.5.5	<p><u>Delete</u> GC 1.1.5.5 and <u>replace</u> with the following:</p> <p>“.5 Noted materials and annotations on the <i>Drawings</i> shall govern over the graphic representation of the <i>Drawings</i>.”</p>
SC8.5	1.1.5.6 to 1.1.5.8	<p><u>Add</u> the following new GC 1.1.5.6 to 1.1.5.8 as follows:</p> <p>“.6 Finishes in the room finish schedules shall govern over those shown on the <i>Drawings</i>.</p> <p>.7 Architectural drawings shall have precedence over structural, plumbing, mechanical, electrical and landscape drawings insofar as outlining, determining and interpreting conflicts over the required design intent of all architectural layouts and architectural elements of construction, it being understood that the integrity and installation of the systems designed by the <i>Consultant</i>, or its sub-<i>Consultants</i> are to remain with each of the applicable drawing disciplines.</p> <p>.8 Should reference standards contained in the <i>Specifications</i> conflict with the <i>Specifications</i>, the <i>Specifications</i> shall govern. Should reference standards and <i>Specifications</i> conflict with each other or if certain requirements of the <i>Specifications</i> conflict with other requirements of the <i>Specifications</i>, the more stringent requirements shall govern.”</p>



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SC8.6	1.1.9	<p><u>Add</u> the following to the end of GC 1.1.9:</p> <p>“The <i>Specifications</i> are divided into divisions and sections for convenience but shall be read as a whole and neither such division nor anything else contained in the <i>Contract Documents</i> will be construed to place responsibility on the <i>Owner</i> or the <i>Consultant</i> to settle disputes among the <i>Subcontractors</i> and <i>Suppliers</i> with respect to such divisions. The <i>Drawings</i> are, in part, diagrammatic and are intended to convey the scope of the <i>Work</i> and indicate general and appropriate locations, arrangements and sizes of fixtures, equipment, outlets and other elements. The <i>Contractor</i> shall obtain more accurate information about the locations, arrangements and sizes from study and coordination of the <i>Drawings</i>, including <i>Shop Drawings</i> and shall become familiar with conditions and spaces affecting those matters before proceeding with the <i>Work</i>. Where site conditions require reasonable minor changes where the change requires only the additional labour two hours or less, the <i>Contractor</i> shall make such changes at no additional cost to the <i>Owner</i>. Similarly, where known conditions or existing conditions interfere with new installation and require relocation, the <i>Contractor</i> shall include such relocation in the <i>Work</i>. The <i>Contractor</i> shall arrange and install fixtures and equipment in such a way as to conserve as much headroom and space as possible. The schedules are those portions of the <i>Contract Documents</i>, wherever located and whenever issued, which compile information of similar content and may consist of drawings, tables and/or lists.”</p>
SC8.7	1.1.13	<p><u>Add</u> new paragraph 1.1.13 as follows:</p> <p>1.1.13 The <i>Contractor</i> shall keep one copy of the current <i>Contract Documents</i>, <i>Supplemental Instructions</i>, contemplated <i>Change Orders</i>, <i>Change Orders</i>, <i>Change Directives</i>, cash allowance disbursement authorizations, reviewed <i>Shop Drawings</i>, submittals, reports and records of meeting at the <i>Place of the Work</i>, in good order and available to the <i>Owner</i> and <i>Consultant</i>.”</p>

SC9 GC 1.3 RIGHTS AND REMEDIES

SC9.1	1.3.2	<p>In paragraph 1.3.2 <u>delete</u> the word “No” from the beginning of the paragraph and <u>replace</u> it with the words:</p> <p>“Except with respect to the requirements set out in paragraphs 6.4.1, 6.5.4, 6.6.1 and 8.3.2, no...”</p>
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SC10 *NEW* GC 1.5 EXAMINATION OF DOCUMENTS AND SITE

SC10.1	1.5	<p><u>Add</u> new GC 1.5 – EXAMINATION OF DOCUMENTS AND SITE as follows:</p> <p>“GC 1.5 EXAMINATION OF DOCUMENTS AND SITE</p> <p>1.5.1 The <i>Contractor</i> declares and represents that in tendering for the <i>Work</i>, and in entering into a Contract with the <i>Owner</i> for the performance of the <i>Work</i>, it has investigated for itself the character of the <i>Work</i> to be done, based on information generally available from a visit to the <i>Place of the Work</i> and to the standard set out under GC 3.14.1 and further represents and warrants and acknowledges that it considered and took into account in the <i>Contract Price</i> all reasonably known impacts and restrictions arising from the COVID-19 pandemic, including without limitation corresponding legislative changes that may impact performance of the <i>Project</i>, various weather conditions that may affect the <i>Work</i>, the availability of supplies and labour or other conditions or risks that the <i>Contractor</i> knew about or reasonably ought to have known about prior to the date of the <i>Contract</i>. The <i>Contractor</i> has assumed and does hereby assume all risk of known conditions now existing or arising in the course of the <i>Work</i> which might or could make the <i>Work</i>, or any items</p>
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		thereof more expensive in character, or more onerous to fulfil, than was contemplated or known when the tender was made or the <i>Contract</i> signed.
	1.5.2	The <i>Contractor</i> also declares that prior to commencement of the <i>Work</i> , where in tendering for the <i>Work</i> and in entering into this <i>Contract</i> , the <i>Contractor</i> relied upon information furnished by the <i>Owner</i> or any of its agents or servants respecting the nature or confirmation of the ground at the site of the <i>Work</i> , the <i>Contractor</i> shall review to the standard specified in GC 3.14.1, the accuracy of the information furnished by the <i>Owner</i> . If a condition is materially different than what is stated in the information furnished by the <i>Owner</i> , the <i>Contractor</i> shall, no later than five (5) <i>Working Days</i> after the first observation of such condition(s), deliver to the <i>Owner</i> and to the <i>Consultant</i> a <i>Notice in Writing</i> specifying the materially different condition and the <i>Contractor</i> shall not proceed with the affected part of the <i>Work</i> until receiving written direction from the <i>Owner</i> or the <i>Consultant</i> . Where the <i>Contractor</i> fails to provide prompt <i>Notice in Writing</i> in accordance with this GC 1.5.2, the <i>Contractor</i> expressly waives and releases the <i>Owner</i> from all claims with respect to the said information with respect to the <i>Work</i> .

PART 2 ADMINISTRATION OF THE CONTRACT

SC11 GC 2.2 ROLE OF THE CONSULTANT

SC11.1	2.2.5	<u>Delete</u> paragraph 2.2.4 and <u>replace</u> it with the following: "2.2.4 Upon receipt of an application for payment that satisfies the requirement of a <i>Proper Invoice</i> , based on the <i>Consultant's</i> observations and evaluation of the <i>Contractor's</i> application for payment, the <i>Consultant</i> will determine the amounts owing to the <i>Contractor</i> under the <i>Contract</i> and will issue certificates for payment as provided in Article A-5 - PAYMENT, GC 5.3 - PAYMENT, GC 5.4 SUBSTANTIAL PERFORMANCE OF THE WORK AND PAYMENT OF HOLDBACK, and GC 5.5 - FINAL PAYMENT. If the <i>Consultant</i> determines that the amount payable to the <i>Contractor</i> differs from the amount stated in a <i>Proper Invoice</i> , the <i>Consultant</i> shall notify the <i>Owner</i> as provided in GC 5.3.1.2 and prepare a draft of the applicable <i>Notice of Non-Payment</i> for the amount in dispute."
SC11.2	2.2.6	In the first sentence of paragraph 2.2.6, <u>delete</u> the words "Except with respect to GC 5.1 – FINANCING INFORMATION REQUIRED OF THE OWNER".
SC11.3	2.2.12	At paragraph 2.2.12, <u>insert</u> the following at end of that paragraph: "If, in the opinion of the <i>Contractor</i> , the <i>Supplemental Instruction</i> involves an adjustment in the <i>Contract Price</i> or in the <i>Contract Time</i> , it shall, within ten (10) <i>Working Days</i> of receipt of a <i>Supplemental Instruction</i> , provide the <i>Consultant</i> with a notice in writing to that effect. Failure to provide written notification within the time stipulated in this paragraph 2.2.12 shall be deemed an acceptance of the <i>Supplemental Instruction</i> by the <i>Contractor</i> , without any adjustment in the <i>Contract Price</i> or <i>Contract Time</i> ."

SC12 GC 2.3 REVIEW AND INSPECTION OF THE WORK

SC12.1	2.3.2	<u>Amend</u> paragraph 2.3.2 by <u>adding</u> the words "and <i>Owner</i> " after the words " <i>Consultant</i> " in the second and third lines.
SC12.2	2.3.3	<u>Delete</u> paragraph 2.3.3 in its entirety and <u>replace</u> it with the following: "2.3.3 The <i>Contractor</i> shall furnish promptly two copies to the <i>Consultant</i> and one copy to the <i>Owner</i> of all certificates and inspection reports relating to the <i>Work</i> ."



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SC12.3	2.3.4	In paragraph 2.3.4 <u>add</u> the word “review” after the word “inspections” in the first and second lines of paragraph 2.3.4.
SC12.4	2.3.5	In paragraph 2.3.5 in the first line after the word “ <i>Consultant</i> ”, <u>add</u> “or the <i>Owner</i> ”.
SC12.5	2.3.8	<u>Add</u> a new paragraph 2.3.8 as follows: “2.3.8 The <i>Consultant</i> will conduct periodic reviews of the <i>Work</i> in progress, to determine general conformance with the requirements of the <i>Contract Documents</i> . Such reviews, or lack thereof, shall not give rise to any claims by the <i>Contractor</i> in connection with construction means, methods, techniques, sequences and procedures, nor in connection with construction safety at the <i>Place of Work</i> , responsibility for which belongs exclusively to the <i>Contractor</i> .”

SC13 GC 2.4 DEFECTIVE WORK

SC13.1	2.4.1	<u>Amend</u> GC 2.4.1 by inserting “, the <i>Owner</i> and/or its agent” in the first sentence following “rejected by the <i>Consultant</i> ”.
SC13.2	2.4.1.1 to 2.4.1.2	<u>Add</u> new paragraphs 2.4.1.1 and 2.4.1.2 as follows: “2.4.1.1 The <i>Contractor</i> shall rectify, in a manner acceptable to the <i>Consultant</i> and to the <i>Owner through the Consultant</i> all defective work and deficiencies throughout the <i>Work</i> , whether or not they are specifically identified by the <i>Consultant</i> . 2.4.1.2 The <i>Contractor</i> shall prioritize the correction of any defective work, which, in the sole discretion of the <i>Owner through the Consultant</i> , adversely affects the day to day operations of the <i>Owner</i> or which, in the sole discretion of the <i>Consultant</i> , adversely affects the progress of the <i>Work</i> .”
SC13.3	2.4.2	<u>Delete</u> paragraph 2.4.2 in its entirety and <u>replace</u> it with the following: “2.4.2 The <i>Contractor</i> shall promptly pay the <i>Owner</i> for costs incurred by the <i>Owner</i> , the <i>Owner’s</i> own forces or the <i>Owner’s</i> other contractors, for work destroyed or damaged or any alterations necessitated by the <i>Contractor’s</i> removal, replacement or re-execution of defective work.”
SC13.4	2.4.4	<u>Add</u> new paragraph 2.4.4 as follows: “2.4.4 Neither acceptance of the <i>Work</i> by the <i>Consultant</i> or the <i>Owner</i> , nor any failure by the <i>Consultant</i> or the <i>Owner</i> to identify, observe or warn of defective <i>Work</i> or any deficiency in the <i>Work</i> shall relieve the <i>Contractor</i> from the sole responsibility for rectifying such defect or deficiency at the <i>Contractor’s</i> sole cost, even where such failure to identify, observe or warn is negligent.”

PART 3 EXECUTION OF THE WORK

SC14 GC 3.1 CONTROL OF THE WORK

SC14.1	3.1.2	Amend paragraph 3.1.2 by <u>inserting</u> the words “Construction Schedule” after the word “sequences”.
SC14.2	3.1.3 & 3.1.4	<u>Add</u> new paragraphs 3.1.3 and 3.1.4 as follows: “3.1.3 Prior to commencing individual procurement, fabrication and construction activities, the <i>Contractor</i> shall verify at the <i>Place of the Work</i> , all relevant measurements and



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		<p>levels necessary for proper and complete fabrication, assembly and installation of the <i>Work</i> and shall further carefully compare such field measurements and conditions with the requirements of the <i>Contract Documents</i>. Where dimensions are not included or exact locations are not apparent, the <i>Contractor</i> shall immediately notify the <i>Consultant</i> in writing and obtain written instructions from the <i>Consultant</i> before proceedings with any part of the affected <i>Work</i>.</p> <p>3.1.4 Notwithstanding the provisions of paragraphs 3.1.1 and 3.1.2, the <i>Owner</i> shall have access to the site at all times to monitor all aspects of construction. Such access shall in no circumstances affect the obligations of the <i>Contractor</i> to fulfill its contractual obligations.”</p>
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SC15 GC 3.2 CONSTRUCTION BY OWNER OR OTHER CONTRACTORS

SC15.1	3.2.2.1	<u>Delete</u> subparagraph 3.2.2.1 and <u>replace</u> it with “[Intentionally left blank]”.
SC15.2	3.2.3.2	<p><u>Delete</u> subparagraph 3.2.3.2 and <u>replace</u> it with the following:</p> <p>“.2 co-ordinate and schedule the activities and work of other contractors and the <i>Owner’s</i> own forces, including where other contractors or the <i>Owner’s</i> own forces are used after the <i>Owner</i> and the <i>Contractor</i> cannot reach agreement on the value of a change, with the <i>Work</i> of the <i>Contractor</i> and connect as specified or shown in the <i>Contract Documents</i>.”</p>
SC15.3	3.2.3.4	<u>Delete</u> the period at the end of subparagraph 3.2.3.4 and <u>replace</u> it with a semi-colon.
SC15.4	3.2.3.5	<p><u>Add</u> new subparagraph 3.2.3.5 as follows:</p> <p>“.5 Subject to GC 9.4 CONSTRUCTION SAFETY, for the <i>Owner’s</i> own forces and for other contractors, assume overall responsibility for compliance with all aspects of the applicable health and safety legislation in force at the <i>Place of the Work</i>, including all of the responsibilities of the “constructor”, pursuant to the <i>OHSA</i>.”</p>

SC16 GC 3.3 TEMPORARY WORK

SC16.1	3.3.2	In paragraph 3.3.2, in the second line after the words “where required by law”, insert “or by the <i>Consultant</i> ”.
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SC17 GC 3.4 CONSTRUCTION SCHEDULE

SC17.1	3.4.1	<p><u>Delete</u> GC 3.4.1 in its entirety and <u>replace</u> it with the following:</p> <p>“3.4.1 The <i>Contractor</i> shall:</p> <p>1 within five (5) calendar days of receiving written confirmation of the award of the <i>Contract</i>, prepare and submit to the <i>Owner</i> and the <i>Consultant</i> for their review and approval, a construction schedule in the format indicated below that indicates the timing of the activities of the <i>Work</i> and provides sufficient detail of the critical events and their inter-relationship to demonstrate the <i>Work</i> will be performed in conformity with the <i>Contract Time</i> and in accordance with the <i>Contract Documents</i>. Such schedule is to include a delivery schedule for <i>Products</i> whose delivery is critical to the schedule for the <i>Work</i> or are required by the <i>Contract</i> to be included in a <i>Products</i> delivery schedule. The <i>Contractor</i> shall employ construction scheduling software, being the latest version of “Microsoft Project”, that permits the progress of the <i>Work</i> to be monitored in relation to the critical path established in the schedule. The <i>Contractor</i> shall provide such schedule and any successor or revised schedules in</p>
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		<p>both original digital file format (e.g., .mpp format for Microsoft Project), portable data file (PDF) format, and hard copy. Once accepted by the <i>Owner</i> and the <i>Consultant</i>, the construction schedule submitted by the <i>Contractor</i> shall become the baseline “Construction Schedule”;</p> <p>.2 provide the expertise and resources, such resources including manpower and equipment, as are necessary on a best efforts basis to maintain progress under the accepted baseline <i>Construction Schedule</i> or revised construction schedule accepted by the <i>Owner</i> pursuant to GC 3.4 CONSTRUCTION SCHEDULE, which includes without limitation, the <i>Contractor’s</i> use of all possible and, if necessary, extraordinary measures, to bring the progress of the <i>Work</i> into compliance with the <i>Construction Schedule</i>, such as (i) increasing the presence of its own forces at the <i>Place of the Work</i>; (ii) directing any <i>Subcontractors</i> or <i>Suppliers</i> to increase their labour forces and equipment; (iii) working overtime and extra shifts; and (iv) providing any additional supervision and coordination of the <i>Project</i>, all at the <i>Contractor’s</i> own cost and expense save and except where GC 6.5.1, 6.5.2, or 6.5.3 apply; and,</p> <p>.3 monitor the progress of the <i>Work</i> on a weekly basis relative to the baseline <i>Construction Schedule</i>, or any revised <i>Construction Schedule</i> accepted by the <i>Owner</i> pursuant to GC 3.4 CONSTRUCTION SCHEDULE, deliver a <i>Construction Schedule Update</i> to the <i>Consultant</i> and <i>Owner</i> with each application for payment, at a minimum, or as may be reasonably required by the <i>Consultant</i> and advise the <i>Consultant</i> and the <i>Owner</i> weekly in writing of any variation from the baseline or slippage in the schedule; and,</p> <p>.4 if after applying the expertise and resources required under paragraph 3.4.1.2, the <i>Contractor</i> forms the opinion that the slippage in schedule reported in paragraph 3.4.1.3 cannot be recovered by the <i>Contractor</i>, it shall, in the same notice provided under paragraph 3.4.1.3, indicate to the <i>Consultant</i> if the <i>Contractor</i> intends to apply for an extension of <i>Contract Time</i> as provided in PART 6 —CHANGES IN THE WORK; and,</p> <p>.5 ensure that the <i>Contract Price</i> shall include all costs required to phase or stage the <i>Work</i>.”</p>
SC17.2	3.4.2	<p><u>Add</u> new GC 3.4.2 and GC 3.4.3 as follows:</p> <p>“3.4.2 If, at any time, it should appear to the <i>Owner</i> or the <i>Consultant</i> that the actual progress of the <i>Work</i> is behind schedule or is likely to become behind schedule, or if the <i>Contractor</i> has given notice of such to the <i>Owner</i> or the <i>Consultant</i> pursuant to GC 3.4.1.3, the <i>Contractor</i> shall, either at the request of the <i>Owner</i> or the <i>Consultant</i>, or following giving notice pursuant to GC 3.4.1.3, take appropriate steps to cause the actual progress of the <i>Work</i> to conform to the schedule or minimize the resulting delay. Within 5 calendar days of the request by the <i>Owner</i> or the <i>Consultant</i> or the notice being given pursuant to GC 3.4.1.3, the <i>Contractor</i> shall produce and present to the <i>Owner</i> and the <i>Consultant</i> a plan demonstrating how the <i>Contractor</i> will recover the performance of the <i>Work</i> to align with the currently approved <i>Construction Schedule</i>.</p> <p>3.4.3 The <i>Contractor</i> shall not amend the <i>Construction Schedule</i> without the prior written consent of the <i>Owner</i>.. Any revisions to the <i>Construction Schedule</i> approved by the <i>Owner</i> shall not be deemed to be an extension of the <i>Contract Time</i>. All requests by the <i>Contractor</i> for a revision to the <i>Construction Schedule</i> that include an extension to the <i>Contract Time</i> must be approved by the <i>Owner</i> through an executed <i>Change Order</i>.”</p>

SC18 GC 3.5 SUPERVISION

SC18.1	3.5.1	<u>Delete</u> GC 3.5.1 and <u>replace</u> it with the following:
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		<p>“3.5.1 The <i>Contractor</i> shall employ a competent full-time superintendent, acceptable to the <i>Owner</i> and <i>Consultant</i>, who shall be in full time attendance at the <i>Place of the Work</i> while the <i>Work</i> is being performed. The superintendent shall not be changed by the <i>Contractor</i> without valid reason which shall be provided in writing and shall not be changed without prior consultation with and agreement by the <i>Owner</i> and the <i>Consultant</i>. The <i>Contractor</i> shall replace the superintendent within 7 <i>Working Days</i> of the <i>Owner’s</i> written notification, if the superintendent’s performance is not acceptable to the <i>Owner</i>. The <i>Contractor</i> shall provide the <i>Owner</i> and the <i>Consultant</i> with the names, addresses and telephone numbers of the superintendent referred to in this GC 3.5.1 and other responsible persons who may be contacted for emergency and other reasons during non-working hours. .”</p>
SC18.2	3.5.2	<p><u>Delete</u> GC 3.5.2 and <u>replace</u> it with the following:</p> <p>“3.5.2 The superintendent, and any project manager appointed by the <i>Contractor</i>, shall represent the <i>Contractor</i> at the <i>Place of the Work</i> and shall have full authority to act on written instructions given by the <i>Consultant</i> and/or the <i>Owner</i>. Instructions given to the superintendent or the project manager shall be deemed to have been given to the <i>Contractor</i> and both the superintendent and any project manager shall have full authority to act on behalf of the <i>Contractor</i> and bind the <i>Contractor</i> in matters related to the <i>Contract</i>.”</p>
SC18.3	3.5.3 to 3.5.6	<p><u>Add</u> new GC 3.5.3, 3.5.4, 3.5.5 and 3.5.6 as follows:</p> <p>“3.5.3 The <i>Owner</i> may, at any time during the course of the <i>Work</i>, request the replacement of the appointed representative(s). Immediately upon receipt of the request, the <i>Contractor</i> shall make arrangements to appoint an acceptable replacement, which is approved by the <i>Owner</i>.</p> <p>3.5.4 The supervisory staff assigned to the <i>Project</i> shall also be fully competent to implement efficiently all requirements for scheduling, coordination, field engineering, reviews, inspections and submittals defined in the <i>Specifications</i>, and have a minimum 5 years documented “Superintendent/Project Management” experience.</p> <p>3.5.5 The <i>Consultant and Owner</i> shall reserve the right to review the record of experience and credentials of supervisory staff assigned to the <i>Project</i> prior to commencement of the <i>Work</i>.</p> <p>3.5.6 A superintendent assigned to the <i>Work</i> shall be “Gold Seal Certified” as per the Canadian Construction Association; or a superintendent that can demonstrate the requisite experience and success related to the <i>Project</i> to the sole satisfaction of the <i>Owner</i>.”</p>

SC19 GC 3.6 SUBCONTRACTORS AND SUPPLIERS

SC19.1	3.6.1.1	<p>In paragraph 3.6.1.1 <u>add</u> to the end of the second line the words “including any warranties and service agreements which extend beyond the term of the <i>Contract</i>.”</p>
SC19.2	3.6.1.2	<p>In subparagraph 3.6.1.2 after the words “the <i>Contract Documents</i>” <u>add</u> the words “including any required surety bonding”.</p>
SC19.3	3.6.2	<p><u>Delete</u> paragraph 3.6.2. in its entirety and <u>replace</u> it with the following:</p> <p>“3.6.2 The substitution of any <i>Subcontractor</i> and/or <i>Suppliers</i> after submission of the <i>Contractor’s</i> bid will not be accepted unless a valid reason is given in writing to and approved by the <i>Owner</i>, whose approval may be arbitrarily withheld. The reason for substitution must be provided to the <i>Owner</i> and to the original <i>Subcontractor</i> and/or <i>Supplier</i> and the <i>Subcontractor</i> and/or <i>Supplier</i> shall be given the opportunity to reply</p>



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		to the <i>Contractor</i> and <i>Owner</i> . The <i>Contractor</i> shall be fully aware of the capability of each <i>Subcontractor</i> and/or <i>Supplier</i> included in its bid, including but not limited to technical ability, financial stability and ability to maintain the proposed construction schedule.”
SC19.4	3.6.7, 3.6.8, 3.6.9 & 3.6.10	<p><u>Add</u> new paragraphs 3.6.7, 3.6.8, 3.6.9, and 3.6.10 as follows:</p> <p>“3.6.7 The <i>Contractor</i> represents and warrants that it has confirmed the availability of its <i>Subcontractors</i> for the <i>Project</i> and, in particular, for the performance of their respective portions of the <i>Work</i> to ensure completion of the <i>Project</i> within the <i>Contract Price</i> and the <i>Contract Time</i>.</p> <p>3.6.8 The <i>Consultant</i> or the <i>Owner</i>, acting reasonably, may from time to time require the <i>Contractor</i> to remove from the <i>Project</i> any personnel of the <i>Contractor</i>, including project managers, superintendents or <i>Subcontractors</i>. Such persons shall be replaced by the <i>Contractor</i> in a timely fashion to the satisfaction of the <i>Consultant</i> or the <i>Owner</i>, as the case may be, at no cost to the <i>Owner</i>.</p> <p>3.6.9 Where provided in the <i>Contract</i>, the <i>Owner</i> may assign to the <i>Contractor</i>, and the <i>Contractor</i> agrees to accept, any contract procured by the <i>Owner</i> for <i>Work</i> or services required on the <i>Project</i> that has been pre-tendered or pre-negotiated by the <i>Owner</i>, and upon such assignment, the <i>Owner</i> shall have no further liability to any party for such contract.</p> <p>3.6.10 The <i>Contractor</i> covenants that each subcontract or supply contract which the <i>Contractor</i> enters into for the purpose of performing the <i>Work</i> shall expressly provide for the assignment thereof to the <i>Owner</i> (at the option of the <i>Owner</i>) and the assumption by the <i>Owner</i> of the obligations of the <i>Contractor</i> thereunder, upon the termination of the <i>Contract</i> and upon written notice by the <i>Owner</i> to the other parties to such subcontracts or supply contracts, without the imposition of further terms or conditions; provided, however, that until the <i>Owner</i> has given such notice, nothing herein contained shall be deemed to create any contractual or other liability upon the <i>Owner</i> for the performance of obligations under such subcontracts or supply contracts and the <i>Contractor</i> shall be fully responsible for all of its obligations and liabilities (if any) under such subcontracts and supply contracts.”</p>

SC20 GC 3.7 LABOUR AND PRODUCTS

SC20.1	3.7.1	<u>Amend</u> paragraph 3.7.1 by <u>adding</u> the words, “..., agents, <i>Subcontractors</i> and <i>Suppliers</i> ...” after the word “employees” in the first line.
SC20.2	3.7.2	<p><u>Delete</u> paragraph 3.7.2 and <u>substitute</u> with the following:</p> <p>“3.7.2 <i>Products</i> provided shall be new and shall conform to all current applicable specifications of the Canadian Standards Association, Canadian Standards Board or General Standards Board, ASTM, National Building Code, provincial and municipal building codes, fire safety standards, and all governmental authorities and regulatory agencies having jurisdiction at the <i>Place of the Work</i>, unless otherwise specified. <i>Products</i> which are not specified shall be of a quality consistent with those specified and their use acceptable to the <i>Consultant</i>. <i>Products</i> brought on to the <i>Place of the Work</i> by the <i>Contractor</i> shall be deemed to be the property of the <i>Owner</i>, but the <i>Owner</i> shall be under no liability for loss thereof or damage thereto arising from any cause whatsoever. The said <i>Products</i> shall be at the sole risk of the <i>Contractor</i>. Workmanship shall be, in every respect, first class and the <i>Work</i> shall be performed in accordance with the best modern industry practice.”</p>
SC20.3	3.7.4 to 3.7.8	<u>Add</u> new paragraphs 3.7.4, 3.7.5, 3.7.6, 3.7.7, and 3.7.8 as follows:



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		<p>“3.7.4 Upon receipt of a <i>Notice in Writing</i> from the <i>Owner</i>, the <i>Contractor</i> shall immediately remove from the <i>Place of the Work</i>, tradesmen and labourers or anyone whose conduct jeopardizes the safety of the <i>Owner’s</i> operations or who are considered by the <i>Owner</i> or the <i>Consultant</i> to be unskilled or otherwise objectionable. Immediately upon receipt of the request, the <i>Contractor</i> shall make arrangements to appoint an acceptable replacement.</p> <p>3.7.5 The <i>Contractor</i> shall cooperate with the <i>Owner</i> and its representatives and shall take all reasonable and necessary actions to maintain stable and harmonious labour relations with respect to the <i>Work</i> at the <i>Place of the Work</i>, including cooperation to attempt to avoid <i>Work</i> stoppages, trade union jurisdictional disputes and other <i>Labour Disputes</i>. Any costs arising from labour disputes shall be at the sole expense of the <i>Contractor</i>.</p> <p>3.7.6 The cost for overtime required beyond the normal <i>Working Day</i> to complete individual construction operations of a continuous nature, such as pouring or finishing of concrete or similar work, or <i>Work</i> that the <i>Contractor</i> elects to perform at overtime rates without the <i>Owner</i> requesting it, shall not be chargeable to the <i>Owner</i>.</p> <p>3.7.7 All manufactured <i>Products</i> which are identified by their proprietary names or by part or catalogue number in the <i>Specifications</i> shall be used by the <i>Contractor</i>. No substitutes for such specified <i>Products</i> shall be used without the written approval of the <i>Owner</i> and the <i>Consultant</i>. Substitutes will only be considered by the <i>Consultant</i> when submitted in sufficient time to permit proper review and investigation. When requesting approval for the use of substitutes, the <i>Contractor</i> shall include in its submission any proposed change in the <i>Contract Price</i>. The <i>Contractor</i> shall use all proprietary <i>Products</i> in strict accordance with the manufacturer’s directions. Where there is a choice of proprietary <i>Products</i> specified for one use, the <i>Contractor</i> may select any one of the <i>Products</i> so specified for this use.</p> <p>3.7.8 Materials, appliances, equipment and other <i>Products</i> are sometimes specified by reference to brand names, proprietary names, trademarks or symbols. In such cases, the name of a manufacturer, distributor, <i>Supplier</i> or dealer is sometimes given to assist the <i>Contractor</i> to find a source <i>Supplier</i>. This shall not relieve the <i>Contractor</i> from its responsibility from finding its own source of supply even if the source names no longer supplies the <i>Product</i> specified. If the <i>Contractor</i> is unable to obtain the specified <i>Product</i>, the <i>Contractor</i> shall supply a substitute product equal to or better than the specified <i>Product</i>, as approved by the <i>Consultant</i> with no extra compensation. Should the <i>Contractor</i> be unable to obtain a substitute <i>Product</i> equal to or superior to the specified <i>Product</i> and the <i>Owner</i> accepts a different <i>Product</i>, the <i>Contract Price</i> shall be adjusted accordingly, as approved by the <i>Consultant</i>.”</p>
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SC21 GC 3.8 SHOP DRAWINGS

SC21.1	3.8.1	<p><u>Delete</u> paragraph 3.8.1 in its entirety and <u>replace</u> with the following:</p> <p>“3.8.1 The <i>Contractor</i> shall provide shop drawings as described in the <i>Contract Documents</i> and as the <i>Consultant</i> may reasonably request.”</p>
SC21.2	3.8.3	<p><u>Delete</u> paragraph 3.8.3 and <u>replace</u> it with the following:</p> <p>“3.8.3 The <i>Contractor</i> shall prepare a <i>Shop Drawings</i> schedule acceptable to the <i>Owner</i> and the <i>Consultant</i> prior to the first application for payment. A draft of the proposed <i>Shop Drawings</i> schedule shall be submitted by the <i>Contractor</i> to the <i>Consultant</i> and the <i>Owner</i> for approval. The draft <i>Shop Drawings</i> schedule shall clearly indicate the phasing of <i>Shop Drawings</i> submissions. The <i>Contractor</i> shall</p>



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		periodically re-submit the <i>Shop Drawings</i> schedule to correspond to changes in the <i>Construction Schedule</i> .”
SC21.3	3.8.5	<u>Delete</u> paragraph 3.8.5 in its entirety and <u>substitute</u> the following: “3.8.5 At the time of providing <i>Shop Drawings</i> , the <i>Contractor</i> shall advise the <i>Consultant</i> in writing of any deviations in <i>Shop Drawings</i> from the requirements of the <i>Contract Documents</i> . The <i>Consultant</i> shall indicate the acceptance of such deviation expressly in writing. Where manufacturers’ literature is submitted in lieu of scaled drawings, it shall be clearly marked in ink, to indicate the specific items for which review is requested.”
SC21.4	3.8.8 to 3.8.12	<u>Add</u> new paragraphs 3.8.8, 3.8.9, 3.8.10, 3.8.11, and 3.8.12 as follows: “3.8.8 Reviewed <i>Shop Drawings</i> shall not authorize a change in the <i>Contract Price</i> and/or the <i>Contract Time</i> . 3.8.9 Except where the parties have agreed to a different <i>Shop Drawings</i> schedule pursuant to paragraph 3.10.3, the <i>Contractor</i> shall comply with the requirements for <i>Shop Drawings</i> submissions stated in the <i>Specifications</i> . 3.8.10 The <i>Contractor</i> shall not use the term “by others” on <i>Shop Drawings</i> or other submittals. The related trade, <i>Subcontractor</i> or <i>Supplier</i> shall be stated. 3.8.11 Certain <i>Specifications</i> sections require the <i>Shop Drawings</i> to bear the seal and signature of a professional engineer. Such professional engineer must be registered in the jurisdiction of the <i>Place of the Work</i> and shall have expertise in the area of practice reflected in the <i>Shop Drawings</i> . 3.8.12 The <i>Consultant</i> will review and return <i>Shop Drawings</i> and submittals in accordance with the schedule agreed upon in paragraph 3.10.3, The <i>Contractor</i> shall allow the <i>Consultant</i> a minimum of 10 <i>Working Days</i> to review <i>Shop Drawings</i> from the date of receipt. If resubmission of <i>Shop Drawings</i> is required, a further 10 <i>Working Day</i> period is required for the <i>Consultant’s</i> review.”

SC22 *NEW* GC 3.9 USE OF THE WORK

SC22.1	GC 3.9	<u>Add</u> new GC 3.9 – USE OF THE WORK as follows: “ GC 3.9 USE OF THE WORK 3.9.1 The <i>Contractor</i> shall confine <i>Construction Equipment</i> , <i>Temporary Work</i> , storage of <i>Products</i> , waste products and debris, and operations of employees and <i>Subcontractors</i> to limits indicated by laws, ordinances, permits, by the direction of the <i>Owner</i> or the <i>Consultant</i> , or the <i>Contract Documents</i> and shall not unreasonably encumber the <i>Place of the Work</i> . 3.9.2 The <i>Contractor</i> shall not load or permit to be loaded any part of the <i>Work</i> with a weight or force that will endanger the safety of the <i>Work</i> . 3.9.3 The <i>Owner</i> shall have the right to enter or occupy the <i>Place of the Work</i> in whole or in part for the purpose of placing fittings and equipment, or for other use before <i>Substantial Performance of the Work</i> , if, in the opinion of the <i>Consultant</i> , such entry and occupation does not prevent or substantially interfere with the <i>Contractor</i> in the performance of the <i>Contract</i> within the <i>Contract Time</i> . Such entry or occupation shall neither be considered as acceptance of the <i>Work</i> or in any way relieves the <i>Contractor</i> from its responsibility to complete the <i>Contract</i> .”
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SC23 *NEW* GC 3.10 CUTTING AND REMEDIAL WORK

SC23.1	GC 3.10	<p>Add new GC 3.10 – CUTTING AND REMEDIAL WORK as follows:</p> <p>“GC 3.10 CUTTING AND REMEDIAL WORK</p> <p>3.10.1 The <i>Contractor</i> shall perform the cutting and remedial work required to make the affected parts of the <i>Work</i> come together properly. Such cutting and remedial work shall be performed by specialists familiar with the <i>Products</i> affected and shall be performed in a manner to neither damage nor endanger the <i>Work</i>.</p> <p>3.10.2 The <i>Contractor</i> shall coordinate the <i>Work</i> to ensure all cutting and remedial work required is kept to a minimum.</p> <p>3.10.3 Unless specifically stated otherwise in the <i>Specifications</i>, the <i>Contractor</i> shall do all cutting and making good necessary for the proper installation and performance of the <i>Work</i>.</p> <p>3.10.4 To avoid unnecessary cutting, the <i>Contractor</i> shall lay out its work and advise the <i>Subcontractors</i>, when necessary, where to leave holes for installation of pipes and other work.”</p>
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SC24 *NEW* GC 3.11 CLEAN UP

SC24.1	3.11.1, 3.11.2, 3.11.3, 3.11.4, 3.11.5 & 3.11.6	<p>Add new paragraphs 3.11.1, 3.11.2, 3.11.3, 3.11.4, 3.11.5, and 3.11.6 as follows:</p> <p>“3.11.1 The <i>Contractor</i> shall maintain the <i>Work</i> in a safe and tidy condition and free from the accumulation of waste products and debris, other than that caused by the <i>Owner</i>, other contractors or their employees. The <i>Contractor</i> shall remove accumulated waste and debris at least once a week as a minimum or as required by the nature of the <i>Work</i>.</p> <p>3.11.2 Before applying for <i>Substantial Performance of the Work</i>, the <i>Contractor</i> shall remove waste products and debris, other than that resulting from the work of the <i>Owner</i>, other contractors or their employees, and shall leave the <i>Place of the Work</i> clean and suitable for use or occupancy by the <i>Owner</i>. The <i>Contractor</i> shall remove products, tools, materials, <i>Construction Equipment</i>, and <i>Temporary Work</i> not required for the performance of the remaining work.</p> <p>3.11.3 As a condition precedent to submitting its application for final payment, the <i>Contractor</i> shall remove any remaining products, tools, materials, <i>Construction Equipment</i>, <i>Temporary Work</i>, and waste products and debris, other than those resulting from the work of the <i>Owner</i>, other contractors or their employees.</p> <p>3.11.4 The <i>Contractor</i> shall clean up garbage during and after construction and maintain the <i>Place of the Work</i> in a neat and orderly condition on a daily basis. Prior to leaving the <i>Place of the Work</i> and following completion of the <i>Work</i>, the <i>Contractor</i> shall make good all damage to the building and its components caused by the performance of the <i>Work</i> or by any <i>Subcontractor</i> or <i>Supplier</i>. The <i>Contractor</i> shall leave the <i>Place of the Work</i> in a clean and finished state; remove all <i>Construction Equipment</i> and materials; remove all paint, stains, labels, dirt, etc. from the <i>Place of the Work</i>; and touch up all damaged painted areas (if applicable). The <i>Contractor</i> shall be responsible for restoring those areas of the <i>Place of the Work</i>, impacted by the <i>Work</i>, to their original condition.”</p>
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		<p>3.11.5 Without limitation to or waiver of the <i>Owner's</i> other rights and remedies, the <i>Owner</i> shall have the right to back charge to the <i>Contractor</i> the cost of damage to the site caused by transportation in and out of the <i>Place of the Work</i> by the <i>Contractor</i>, <i>Subcontractors</i> or <i>Suppliers</i>, if not repaired before final payment.</p> <p>3.11.6 The <i>Contractor</i> shall dispose of debris at a location and in a manner acceptable to the <i>Owner</i> (and to the authorities having jurisdiction at the <i>Place of the Work</i> and at the disposal area) and the <i>Contractor</i> shall cover containers with tarpaulins.”</p>
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SC25 *NEW* GC 3.12 EXCESS SOIL MANAGEMENT

SC25.1	GC 3.12	<p><u>Add</u> new GC 3.12 – EXCESS SOIL MANAGEMENT as follows:</p> <p>“GC 3.12 EXCESS SOIL MANAGEMENT</p> <p>3.12.1 The <i>Contractor</i> shall be solely responsible for the proper management of all <i>Excess Soil</i> at the <i>Place of the Work</i> and for performance of the <i>Work</i> in compliance with the rules, regulations and practices required by the <i>Excess Soil Regulation</i> until such time as <i>Ready-for-Takeover</i> is achieved. Without restricting the generality of the previous sentence, the <i>Contractor's</i> responsibility under this GC 3.12 includes the designation, transportation, tracking, temporary and/or final placement, record keeping, and reporting of all <i>Excess Soil</i> in connection with the <i>Work</i> all in compliance with the <i>Excess Soil Regulation</i>.</p> <p>3.12.3 The <i>Contractor</i> shall indemnify and save harmless the <i>Owner</i>, their agents, officers, directors, administrators, employees, consultants, successors and assigns from and against the consequences of any and all health and safety infractions committed directly by the <i>Contractor</i>, or those for whom it is responsible at law, under the <i>Excess Soil Regulation</i>, or any environmental protection legislation, including the payment of legal fees and disbursements on a substantial indemnity basis. Such indemnity shall apply to the extent to which the <i>Owner</i> is not covered by insurance.”</p>
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SC26 *NEW* GC 3.13 CONTRACTOR STANDARD OF CARE

SC26.1	3.13	<p><u>Add</u> a new GC 3.13 – CONTRACTOR STANDARD OF CARE as follows:</p> <p>“GC 3.13 CONTRACTOR STANDARD OF CARE</p> <p>“3.13.1 In performing its services and obligations under the <i>Contract</i>, the <i>Contractor</i> shall exercise the standard of care, skill and diligence that would normally be provided by an experienced and prudent contractor supplying similar services for similar projects. The <i>Contractor</i> acknowledges and agrees that throughout the <i>Contract</i>, the performance of the <i>Contractor's</i> obligations, duties and responsibilities shall be interpreted in accordance with this standard. The <i>Contractor</i> shall exercise the same standard of care, skill and diligence in respect of any <i>Products</i>, personnel or procedures which it may recommend to the <i>Owner</i> or employ on the <i>Project</i>.</p> <p>3.13.2 The <i>Contractor</i> further represents, covenants and warrants to the <i>Owner</i> that:</p> <ol style="list-style-type: none"> .1 the personnel it assigns to the <i>Project</i> are appropriately experienced; .2 it has a sufficient staff of qualified and competent personnel to replace any of its appointed representatives, subject to the <i>Owner's</i> approval, in the event of death, incapacity, removal or resignation; and
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		.3 there are no pending, threatened or anticipated claims, liabilities or contingent liabilities that would have a material effect on the financial ability of the <i>Contractor</i> to perform its work under the <i>Contract</i> .”
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PART 4 ALLOWANCES

SC27 GC 4.1 CASH ALLOWANCES

SC27.1	4.1.3	In GC 4.1.3 <u>delete</u> the words “through the <i>Consultant</i> ” and <u>replace</u> them with “in writing.”
SC27.2	4.1.4	<u>Delete</u> GC 4.1.4 in its entirety and <u>replace</u> it with the following: “4.1.4 Where the actual cost of the <i>Work</i> under any cash allowance exceeds the amount of the allowance, any unexpended amounts from other cash allowances shall be reallocated, by the <i>Consultant</i> at the <i>Owner’s</i> direction, to cover the shortfall, and, in that case, there shall be no additional amount added to the <i>Contract Price</i> for overhead and profit. Only where the actual cost of the <i>Work</i> under all cash allowances exceeds the total amount of all cash allowances shall the <i>Contractor</i> be compensated for the excess incurred and substantiated, plus an amount for overhead and profit on the excess only, as set out in the <i>Contract Documents</i> .”
SC27.3	4.1.7	<u>Delete</u> GC 4.1.7 in its entirety and <u>replace</u> it with the following: “4.1.7 The net amount of any unexpended cash allowances, after providing for any reallocations as contemplated in paragraph 4.1.4, shall be deducted from the <i>Contract Price</i> by <i>Change Order</i> without any adjustment for the <i>Contractor’s</i> overhead and profit on such amount.”
SC27.4	4.1.8 and 4.1.9	<u>Add</u> new GC 4.1.8 and 4.1.9 as follows: “4.1.8 The <i>Owner</i> reserves the right to call, or to have the <i>Contractor</i> call, for competitive bids for portions of the <i>Work</i> to be paid for from cash allowances. 4.1.9 Cash allowances cover the net cost to the <i>Contractor</i> of services, <i>Products</i> , <i>Construction Equipment</i> , freight, unloading, handling, storage, installation, provincial sales tax, and other authorized expenses incurred in performing any <i>Work</i> stipulated under the cash allowances but does not include any <i>Value Added Taxes</i> payable by the <i>Owner</i> and the <i>Contractor</i> .”

PART 5 PAYMENT

SC28 GC 5.1 FINANCING INFORMATION REQUIRED OF THE OWNER

SC28.1	5.1	<u>Delete</u> GC 5.1 – FINANCING INFORMATION REQUIRED OF THE OWNER and all paragraphs thereunder, including any reference to GC 5.1 throughout the <i>Contract</i> .
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SC29 GC 5.2 APPLICATIONS FOR PAYMENT

SC29.1	5.2.1	<u>Delete</u> GC 5.2.1 and <u>replace</u> it with the following: “5.2.1 Upon execution of the <i>Contract</i> , and in any event prior to the <i>Contractor</i> submitting its first application for payment, the <i>Owner</i> shall issue a purchase order to the <i>Contractor</i> for the performance of the <i>Contract</i> . The number indicated on such purchase order must be clearly identifiable on all applications for payment.
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		<p>Applications for payment shall be dated the last day of each month or an alternative day of each month agreed to in writing by the parties, with each month representing one payment period under the <i>Contract</i> (each a “Payment Period”). Within 3 calendar days of the end of each <i>Payment Period</i>, the <i>Contractor</i> will submit a draft application for payment to the <i>Owner</i> and the <i>Consultant</i>. Upon receipt of the draft application for payment, and within 7 calendar days, a representative of each of the <i>Contractor</i>, <i>Owner</i>, and the <i>Consultant</i> shall attend a meeting to discuss and review the work completed during the <i>Payment Period</i>, including quantities, if applicable (the “Pre-Invoice Submission Meeting”). In the event that the scheduled date for the <i>Pre-Invoice Submission Meeting</i> is not a <i>Working Day</i>, the <i>Pre-Invoice Submission Meeting</i> shall occur on the next <i>Working Day</i>. The <i>Contractor</i> shall bring with it to the <i>Pre-Invoice Submission Meeting</i> the following:</p> <ul style="list-style-type: none"> .1 a copy of the draft application for payment; .2 any documents the <i>Contractor</i> is required to bring to the <i>Pre-Invoice Submission Meeting</i> as stipulated in the <i>Contract Documents</i> or as reasonably requested by the <i>Owner</i>; and .3 any other documents reasonably requested, in advance, by the <i>Owner</i> or the <i>Consultant</i>.”
SC29.2	5.2.2	<p><u>Delete</u> GC 5.2.2 in its entirety and <u>replace</u> it with the following:</p> <p>“5.2.2 Applications for payment shall be given in accordance with the following requirements:</p> <ul style="list-style-type: none"> .1 Within 5 calendar days following the <i>Pre-Invoice Submission Meeting</i>, the <i>Contractor</i> shall deliver its application for payment to the <i>Owner</i> and to the <i>Consultant</i> for <i>Work</i> performed during the <i>Payment Period</i> (“Proper Invoice Submission Date”) subject to the following: <ul style="list-style-type: none"> .1 if the fifth calendar day following the <i>Pre-Invoice Submission Meeting</i>, to which an invoice relates falls on a day that is not a <i>Working Day</i>, the <i>Proper Invoice Submission Date</i> shall be deemed to fall on the next <i>Working Day</i>. .2 The application for payment must be delivered to the <i>Owner/WCDSB Lead</i> and to the <i>Consultant</i> in the same manner as a <i>Notice in Writing</i> during the hours of 9:00 am to 4:00pm (EST) on the <i>Proper Invoice Submission Date</i>. Delivery to the <i>Owner</i> shall be to the following email address: .3 If an application for payment is received after 4:00 p.m. (EST) on the applicable <i>Proper Invoice Submission Date</i>, the application for payment will not be considered or reviewed by the <i>Owner</i> and <i>Consultant</i> until the next <i>Proper Invoice Submission Date</i>. Notwithstanding the foregoing, the <i>Owner</i> in its sole and absolute discretion may elect to accept an application for payment submitted after 4:00 p.m. on the applicable <i>Proper Invoice Submission Date</i>; however, such acceptance shall not be construed as a waiver of any of its rights or waive or release the <i>Contractor</i>’s obligations to strictly comply with the requirements prescribed in this subparagraph 5.2.2.3. .4 No applications for payment shall be accepted by the <i>Owner</i> prior to the <i>Proper Invoice Submission Date</i>. .5 All applications for payment shall include all of the requirements for a <i>Proper Invoice</i> prescribed by the <i>Construction Act</i> and this <i>Contract</i> and be dated the last day of the applicable <i>Payment Period</i>,”



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SC29.3	5.2.3	<p><u>Delete</u> GC 5.2.3 and <u>replace</u> it with the following:</p> <p>“5.2.3 The amount claimed shall be for the value, proportionate to the amount of the <i>Contract</i>, of <i>Work</i> performed and <i>Products</i> delivered and incorporated into the <i>Work</i> as of the last date of the applicable <i>Payment Period</i>. Materials may also be deemed to be supplied to an improvement, for payment purposes, when, in the <i>Owner’s</i> opinion, they are placed and properly secured on the land on which the improvement is made, or placed upon land designated by the <i>Owner</i> or agent of the <i>Owner</i>, but placing the materials on the land so designated does not, of itself, make that land subject to a lien. No amount claimed shall include products delivered and incorporated into the work, unless the products are free and clear of all security interests, liens and other claims of third parties. No amount claimed shall include <i>Products</i> delivered to the <i>Place of the Work</i> unless the <i>Products</i> are free and clear of all security interests, liens, and other claims of third parties.”</p>
SC29.4	5.2.4	After the word “ <i>Consultant</i> ” in GC 5.2.4 <u>add</u> the words “and the <i>Owner</i> ”
SC29.5	5.2.5	After the word “ <i>Consultant</i> ” in GC 5.2.5 <u>add</u> the words “or the <i>Owner</i> ”.
SC29.6	5.2.6	In GC 5.2.6, <u>delete</u> the word “ <i>Consultant</i> ” and <u>replace</u> it with “ <i>Owner</i> ”.
SC29.7	5.2.9	<p><u>Add</u> new 5.2.9 as follows:</p> <p>“5.2.9 The <i>Contractor</i> shall prepare and maintain current as-built drawings which shall consist of the <i>Drawings</i> and <i>Specifications</i> revised by the <i>Contractor</i> during the <i>Work</i>, showing changes to the <i>Drawings</i> and <i>Specifications</i>, which current as-built drawings shall be maintained by the <i>Contractor</i> and made available to the <i>Consultant</i> for review with each application for progress payment. The <i>Consultant</i> shall recommend to the <i>Owner</i> that the <i>Owner</i> retain a reasonable amount for the value of the as-built drawings not presented for review.”</p>

SC30 GC 5.3 PAYMENT

SC30.1	5.3.1	<p><u>Delete</u> GC 5.3.1 in its entirety, including all subparagraphs thereunder, and <u>replace</u> it with the following:</p> <p>“5.3.1 After receipt by the <i>Owner</i> and the <i>Consultant</i> of an application for payment submitted by the <i>Contractor</i> in accordance with GC 5.2 - APPLICATIONS FOR PAYMENT:</p> <p>.1 the <i>Consultant</i> will either:</p> <p>(a) issue to the <i>Owner</i> with a copy to the <i>Contractor</i>, a progress payment certificate in the amount applied for by the <i>Contractor</i> in the <i>Proper Invoice</i>, or</p> <p>(b) issue to the <i>Owner</i>, with a copy to the <i>Contractor</i>, a certificate for payment for an amount determined by the <i>Consultant</i> to be properly due to the <i>Contractor</i> after applying any credits, withheld amounts, or other set-offs which the <i>Consultant</i> has determined that the <i>Owner</i> is entitled to notwithstanding any notice of dispute or disagreement that the <i>Contractor</i> may have served, along with the <i>Consultant’s</i> reasons why an amount other than what is claimed in the <i>Proper Invoice</i> is properly due to the <i>Contractor</i>, which finding the <i>Owner</i> may accept or amend prior to the <i>Owner</i> issuing a <i>Notice of Non-Payment</i>, if any, in accordance with GC 5.3.2;</p>
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		<p>.2 the <i>Owner</i> shall make payment to the <i>Contractor</i> on account as provided in Article A-5 PAYMENT,</p> <p>(a) in the amount stated in the certificate for payment, or</p> <p>(b) in the amount stated in the certificate for payment less such amount stated in the <i>Owner's Notice of Non-Payment</i> issued pursuant to GC 5.3.3,</p> <p>on the 28th calendar day after receipt of a <i>Proper Invoice</i>, unless such 28th calendar day lands on a day that is other than a <i>Working Day</i>, in which case payment shall be made on the next <i>Working Day</i> after such 28th day.”</p>
SC30.2	5.3.2 to 5.3.7	<p><u>Add</u> new paragraphs 5.3.2, 5.3.3, 5.3.4, 5.3.4, 5.3.5, 5.3.6, and 5.3.7 as follows:</p> <p>5.3.2 All payments to the <i>Contractor</i> shall be processed using electronic funds transfer (“EFT”) and deposited directly to the <i>Contractor's</i> bank account unless agreed to otherwise by the <i>Contractor</i> and the <i>Owner</i> in writing. Prior to the <i>Contractor</i> submitting its first application for payment, the <i>Owner</i> and the <i>Contractor</i> shall exchange such information as is necessary to facilitate <i>EFT</i> payments.</p> <p>5.3.3 In the event that the application for payment delivered by the <i>Contractor</i> pursuant to GC 5.2 - APPLICATIONS FOR PAYMENT does not include the requirements for a <i>Proper Invoice</i> or where the <i>Owner</i> disputes the amount claimed as payable in the <i>Proper Invoice</i>, then the <i>Owner</i> shall within 14 calendar days of receipt of the application for payment, issue a <i>Notice of Non-Payment</i> (Form 1.1).</p> <p>5.3.4 Where the <i>Owner</i> has delivered a <i>Notice of Non-Payment</i>, the <i>Owner</i> and the <i>Contractor</i> shall first engage in good faith negotiations to resolve the dispute. If within 5 calendar days following the issuance of a <i>Notice of Non-Payment</i>, despite good faith efforts by both parties and the assistance of the <i>Consultant</i>, the <i>Owner</i> and the <i>Contractor</i> cannot resolve the dispute, either party may commence an <i>Adjudication</i> in accordance with the procedures set out in the <i>Construction Act</i>. Any portion of the <i>Proper Invoice</i> which is not the subject of the <i>Notice of Non-Payment</i> shall be payable within the time period set out in GC 5.3.1.2.</p> <p>5.3.5 Provided that the <i>Owner</i> complies with its obligations under the <i>Construction Act</i>, and subject to any interim determination of an adjudicator in accordance with any <i>Adjudication</i>, and where applicable, a final determination made in accordance with the dispute resolution processes prescribed by this <i>Contract</i>, the <i>Owner</i> shall be entitled to claim in a <i>Notice of Non-Payment</i> a right to deduct from or, set off against, any payment of the <i>Contract Price</i>:</p> <p>.1 any amount expended by the <i>Owner</i> in exercising the <i>Owner's</i> rights under this <i>Contract</i> to perform any of the <i>Contractor's</i> obligations that the <i>Contractor</i> has failed to perform;</p> <p>.2 any damages, costs or expenses (including, without limitation, reasonable legal fees and expenses) incurred by the <i>Owner</i> as a result of the failure of the <i>Contractor</i> to perform any of its obligations under the <i>Contract</i>;</p> <p>.3 any other amount owing from the <i>Contractor</i> to the <i>Owner</i> under this <i>Contract</i>.</p> <p>5.3.6 The amounts disputed and described under the <i>Notice of Non-Payment</i> shall be held by the <i>Owner</i> until all disputed amounts of the <i>Proper Invoice</i> have been resolved pursuant to PART 8 – DISPUTE RESOLUTION.</p> <p>5.3.7 The <i>Contractor</i> represents, warrants, and covenants to the <i>Owner</i> that it is familiar with its prompt payment and trust obligations under the <i>Construction Act</i> and will</p>



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		take all required steps and measures to ensure that it complies with the applicable prompt payment and trust provisions under the <i>Construction Act</i> including, without limitation, section 8.1 of the <i>Construction Act</i> . Evidence of the <i>Contractor's</i> compliance under this GC 5.3.7, including evidence demonstrating that all <i>EFTs</i> by the <i>Owner</i> to the <i>Contractor</i> are kept in a bank account in the <i>Contractor's</i> name will be made available to the <i>Owner</i> within 5 <i>Working Days</i> following receipt by the <i>Contractor</i> of a <i>Notice in Writing</i> making such request.”
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SC31 GC 5.4 SUBSTANTIAL PERFORMANCE OF THE WORK- AND PAYMENT OF HOLDBACK

SC31.1	GC 5.4	<p>Delete GC 5.4 – SUBSTANTIAL PERFORMANCE OF THE WORK AND PAYMENT OF HOLDBACK in its entirety and <u>replace</u> it with the following:</p> <p>“GC 5.4 SUBSTANTIAL PERFORMANCE OF THE WORK AND PAYMENT OF HOLDBACK</p> <p>5.4.1 When the <i>Contractor</i> considers that <i>Substantial Performance of the Work</i> has been achieved, the <i>Contractor</i> shall prepare and submit to the <i>Consultant</i> and the <i>Owner</i> a comprehensive deficiency list of items to be completed or corrected, including any incomplete <i>Close-Out Documentation</i>, and apply for a review by the <i>Consultant</i> and the <i>Owner</i> to establish <i>Substantial Performance of the Work</i>. Failure to include an item on the list does not alter the responsibility of the <i>Contractor</i> to complete the <i>Contract</i>.</p> <p>5.4.2 Prior to, or as part of its written application for <i>Substantial Performance of the Work</i> the <i>Contractor</i> shall submit to the <i>Consultant</i> submit to the <i>Consultant</i> all closeout documentation required by the <i>Contract Documents</i>, including but not limited to, warranties, manuals, guarantees, as-built drawings and all other relevant literature from suppliers and manufacturers including, but not limited to, where applicable (the “Close-Out Documentation”):</p> <ul style="list-style-type: none"> .1 equipment, maintenance, and operations manuals; .2 equipment specifications, data sheets and brochures, parts lists and assembly drawings, performance curves and other related data; .3 line drawings, value charts and control sheets sequences with description of the sequence of operations; .4 warranty documents; .5 guarantees; .6 certificates; .7 service and maintenance reports; .8 <i>Specifications</i>; .9 <i>Shop Drawings</i>; .10 coordination drawings; .11 testing and balancing results and reports; .12 <i>Commissioning</i> and quality assurance documentation; .13 distribution system diagrams; .14 spare parts; .15 samples; .16 existing reports and correspondence from authorities having jurisdiction in the <i>Place of the Work</i>; .17 inspection certificates; .18 red-lined record drawings from the construction trailer in two copies and .19 other materials or documentation required to be submitted under the <i>Contract</i>. <p>5.4.3 The <i>Consultant</i> will review the <i>Work</i> to verify the validity of the application and shall promptly, and in any event, no later than 30 calendar days after receipt of the <i>Contractor's</i> complete deficiency list and application:</p>
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		<p>.1 prepare a final deficiency list incorporating all items to be completed or corrected, including any incomplete or unsubmitted <i>Close-Out Documentation</i>. Each item shall have an indicated value for correction or completion and the determination of the total value of such items shall be determined pursuant to GC 5.8 – DEFICIENCY HOLDBACK. The final deficiency list complete with values is to be included with the <i>Consultant's</i> draft verification and shall be reviewed with the <i>Owner</i> prior to the <i>Consultant</i> rendering a determination in accordance with GC 5.4.3.2</p> <p>.2 having completed the requirements set out in GC 5.4.3.1,</p> <p>(a) the <i>Consultant</i> shall advise the <i>Contractor</i> in writing that the <i>Work</i> or the designated portion of the <i>Work</i> is not substantially performed and give reasons why, or</p> <p>(b) the <i>Consultant</i> shall state the date of <i>Substantial Performance of the Work</i> in a certificate and issue a copy of that certificate to each the <i>Owner</i> and the <i>Contractor</i>.</p> <p>5.4.4 Following the issuance of the certificate of <i>Substantial Performance of the Work</i> referenced in subparagraph 5.4.3.2(b):</p> <p>.1 The <i>Contractor</i> shall publish, in a construction trade newspaper in the area of the location of the <i>Work</i>, a copy of the certificate of <i>Substantial Performance of the Work</i> referred to in GC 5.4.2.2(b) within seven (7) calendar days of receiving a copy of the certificate signed by the <i>Consultant</i>, and the <i>Contractor</i> shall provide suitable evidence of the publication to the <i>Consultant</i> and the <i>Owner</i>. If the <i>Contractor</i> fails to publish such notice, the <i>Owner</i> shall be at liberty to publish said certificate and back-charge the <i>Contractor</i> its reasonable costs for doing so;</p> <p>.2 The <i>Contractor</i> shall complete the <i>Work</i> within forty (40) calendar days of the date certified as the date of <i>Substantial Performance of the Work</i>;</p> <p>.3 Notwithstanding any other provisions of the <i>Contract</i>, no payments will be processed between <i>Substantial Performance of the Work</i> and <i>Ready-for-Takeover</i>;</p> <p>.4 The <i>Owner</i> reserves the right to contract out any or all unfinished <i>Work</i> if it has not been completed within forty (40) days of <i>Substantial Performance of the Work</i> using, without limitation, the funds retained in accordance with GC 5.8 - DEFICIENCY HOLDBACK, without prejudice to any other right or remedy and without affecting the warranty period. The cost to the <i>Owner</i> of completing the <i>Work</i> including <i>Owner</i> and <i>Consultant</i> wages and materials shall be deducted from the <i>Contract Price</i>.</p> <p>5.4.5 After publication of the certificate of the <i>Substantial Performance of the Work</i>, and provided that the <i>Contractor</i> has completed performance of the <i>Work</i> within the 40 calendar days following certification of <i>Substantial Performance of the Work</i>, the <i>Contractor</i> may submit an application for payment of the outstanding <i>Construction Act</i> holdback amount, which application for payment shall:</p> <p>.1 include all of the requirements listed in EXHIBIT "1" - PROJECT SPECIFIC REQUIREMENTS FOR A PROPER INVOICE, as applicable to the application for payment of the holdback amount; and</p> <p>.2 include a statement that the <i>Contractor</i> has not received any written notices of lien or any claims for liens from any <i>Subcontractor</i> or <i>Supplier</i>.</p>
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		<p>5.4.6 The <i>Construction Act</i> holdback amount shall become due and payable the day immediately following the expiration of the holdback period prescribed by the <i>Construction Act</i> (in most cases being the 61st calendar day following the publication of the certificate of <i>Substantial Performance of the Work</i> referred to in GC 5.4.4.1), subject to the occurrence of any of the following:</p> <ul style="list-style-type: none"> .1 the preservation of a lien in respect of the <i>Project</i> that has not been satisfied, discharged or otherwise provided for in accordance with the <i>Construction Act</i>; .2 receipt by the <i>Owner</i> of a written notice of lien that has not been satisfied, discharged or otherwise provided for in accordance with the <i>Construction Act</i>; or .3 prior to the expiry of 40 calendar days following the publication of the certificate of <i>Substantial Performance of the Work</i>, the <i>Owner</i> publishes a <i>Notice of Non-Payment</i> of holdback in accordance with the <i>Construction Act</i> (Form 6), setting out the amount of holdback that will not be paid, which may include non-payment to secure the correction of deficiencies and/or the completion of the <i>Work</i>. <p>5.4.7 Notwithstanding the <i>Owner's</i> obligation to make payment of the holdback amount in accordance with GC 5.4.6, the processing of such payment remains subject to the <i>Owner's</i> internal <i>EFT</i> timing limitations. The <i>Owner</i> covenants, and the <i>Contractor</i> agrees, that payment of the holdback shall be made by <i>EFT</i> at the first opportunity during the <i>Owner's</i> normal processing of <i>EFTs</i> upon the holdback becoming due in accordance with GC 5.4.6..</p>
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SC32 GC 5.5 FINAL PAYMENT

SC32.1	GC 5.5	<p><u>Delete</u> GC 5.5 in its entirety, including all subparagraphs thereunder and <u>replace</u> it with the following:</p> <p>"5.5.1 When <i>Ready-for-Takeover</i> has been achieved in accordance with GC 12.1 – READY-FOR-TAKEOVER and the <i>Contractor</i> considers the <i>Work</i> is complete, and after the <i>Contractor</i>, the <i>Owner</i>, and the <i>Consultant</i> have attended a <i>Pre-Invoice Submission Meeting</i> analogous to the requirement in GC 5.2.1 (the "<i>Final Pre-Invoice Submission Meeting</i>"), the <i>Contractor</i> may submit an application for final payment to the <i>Owner</i> and to the <i>Consultant</i>, which application for payment shall:</p> <ul style="list-style-type: none"> .1 include all of the requirements set out in GC 5.2.2, including without limitation those requirements listed in APPENDIX "1" - PROJECT SPECIFIC REQUIREMENTS FOR A PROPER INVOICE that are specific to an application for final payment; and .2 if applicable, (a) a certificate from the <i>Consultant</i> or written confirmation from the <i>Owner</i> that the deficiencies or incomplete <i>Work</i> waived by the <i>Owner</i> pursuant to GC 12.1.2 have been fully rectified as of the date of the <i>Contractor's</i> application for final payment, and/or (b) written confirmation, signed by the <i>Owner</i> and the <i>Contractor</i>, that the <i>Contract Price</i> has been reduced by a specified amount in exchange for the <i>Owner</i> releasing the <i>Contractor</i> of its obligation to rectify the certain outstanding deficiencies and/or incomplete <i>Work</i> waived by the <i>Owner</i> pursuant to GC 12.1.2, as detailed in such written confirmation.
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	<p>5.5.2 No later than 5 calendar days prior to the <i>Final Pre-Invoice Submission Meeting</i>, the <i>Contractor</i> will, if not already provided, submit to the <i>Consultant</i> all <i>Close-Out Documentation</i>.</p> <p>5.5.3 Delivery of all <i>Close-Out Documentation</i> is a requirement for the <i>Proper Invoice</i> for final payment.</p> <p>5.5.4 After receipt by the <i>Owner</i> and the <i>Consultant</i> of an application for payment submitted by the <i>Contractor</i> that is a <i>Proper Invoice</i> and by no later than 10 calendar days after the receipt of the <i>Proper Invoice</i>:</p> <p style="padding-left: 40px;">.1 the <i>Consultant</i> will either:</p> <p style="padding-left: 80px;">(a) issue to the <i>Owner</i> with a copy to the <i>Contractor</i>, a progress payment certificate in the amount applied for by the <i>Contractor</i> in the <i>Proper Invoice</i>, or</p> <p style="padding-left: 80px;">(b) deliver a finding to the <i>Owner</i> with reasons why an amount other than what is claimed in the <i>Proper Invoice</i> is properly due to the <i>Contractor</i>, which finding the <i>Owner</i> may accept or amend prior to issuing a <i>Notice of Non-Payment</i> (Form 1.1), if any, in accordance with GC 5.5.2;</p> <p style="padding-left: 40px;">.2 the <i>Owner</i> shall make payment to the <i>Contractor</i> on account as provided in Article A-5 PAYMENT,</p> <p style="padding-left: 80px;">(a) in the amount stated in the certificate for payment, or</p> <p style="padding-left: 80px;">(b) in the amount stated in the certificate for payment less such amount stated in the <i>Owner's Notice of Non-Payment</i> issued pursuant to GC 5.5.5,</p> <p style="padding-left: 80px;">on the 28th calendar day after receipt of a <i>Proper Invoice</i>, unless such 28th calendar day lands on a day that is other than a <i>Working Day</i>, in which case payment shall be made on the next <i>Working Day</i> after such 28th day.</p> <p>5.5.5 In the event that the application for final payment delivered by the <i>Contractor</i> does not include the requirements of GC 5.5.1 (including the requirements for a <i>Proper Invoice</i>) and GC 5.5.2 or where the <i>Owner</i> disputes the amount claimed as payable in the <i>Proper Invoice</i>, then the <i>Owner</i> shall within 14 calendar days of receipt of the application for payment, issue a <i>Notice of Non-Payment</i>. Where the <i>Owner</i> has delivered a <i>Notice of Non-Payment</i>, as specified under this GC 5.5.5, the <i>Owner</i> and the <i>Contractor</i> shall first engage in good faith negotiations to resolve the dispute. If within 5 calendar days following the issuance of a <i>Notice of Non-Payment</i>, despite good faith efforts by both parties with the assistance of the <i>Consultant</i>, the <i>Owner</i> and the <i>Contractor</i> cannot resolve the dispute, either party may commence an <i>Adjudication</i> in accordance with the procedures set out in the <i>Construction Act</i>. Any portion of the <i>Proper Invoice</i> which is not the subject of the <i>Notice of Non-Payment</i> shall be payable within the time period set out in GC 5.5.4.2.</p> <p>5.5.6 Subject to the provisions of the <i>Construction Act</i> and any other rights conferred on the <i>Owner</i> at law or under this <i>Contract</i> to withhold payment or backcharge or set-off against payment, the <i>Owner</i> shall pay the amount payable under a <i>Proper Invoice</i> for final payment in accordance with the <i>Construction Act</i>.</p> <p>5.5.7 When the <i>Consultant</i> issues certificate of completion in accordance with GC 5.5.4.1, the <i>Consultant</i> shall also issue a certificate for release of any holdback for finishing work amount. In accordance with the <i>Construction Act</i>, the <i>Owner</i> may retain any amounts which are required by law to satisfy any liens against the <i>Work</i>, in respect of any third party claims made to the <i>Owner</i> in respect of the <i>Contract</i> or the <i>Work</i>, and in respect of any claims the <i>Owner</i> may have against the <i>Contractor</i>. Subject to</p>
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		the foregoing, the <i>Owner</i> shall release the holdback in accordance with the <i>Construction Act</i> .”
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SC33 GC 5.6 DEFERRED WORK

SC33.1	5.6.1	<p><u>Delete</u> paragraph 5.6.1 and <u>replace</u> with the following:</p> <p>“5.6.1 If because of conditions reasonably beyond the control of the <i>Contractor</i>, there are items of work that cannot be performed, payment in full for that portion of the <i>Work</i> which has been performed as certified by the <i>Consultant</i> shall not be withheld or delayed by the <i>Owner</i> on account thereof, but the <i>Owner</i> may withhold, subject to its requirement to issue a <i>Notice of Non-Payment</i> under the <i>Construction Act</i>, until the remaining portion of the <i>Work</i> is finished, only such an amount that the <i>Consultant</i> determines is sufficient and reasonable to cover the cost of performing such remaining work. The remaining work shall be valued as deficient work as defined in GC 5.8.1.”</p>
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SC34 *NEW* GC 5.8 DEFICIENCY HOLDBACK

SC34.1	5.8.1	<p><u>Add</u> new GC 5.8 – DEFICIENCY HOLDBACK as follows:</p> <p>“GC 5.8 DEFICIENCY HOLDBACK</p> <p>5.8.1 Notwithstanding any provisions contained in the <i>Contract Documents</i> concerning certification and release of monies to the <i>Contractor</i>, the <i>Owner</i> reserves the right to establish a deficiency holdback, at the time of the review for <i>Substantial Performance of the Work</i>, based on a 200% dollar value of the deficiencies listed by the <i>Consultant</i>.</p> <p>5.8.2 In performing the calculation under GC 5.8.1,</p> <p>.1 no individual deficiency will be valued at less than five hundred dollars (\$500.00); and</p> <p>.2 for any <i>Close-Out Documentation</i> not submitted in advance of or as part of the <i>Contractor’s</i> application for <i>Substantial Performance of the Work</i>, an amount shall be retained by the <i>Owner</i> as part of the deficiency holdback that is equal to the estimated time and material costs to retain a third-party to re-create the applicable <i>Close-Out Documentation</i>, as determined by the <i>Consultant</i>, until such time as the applicable <i>Close-Out Documentation</i> is submitted and approved.</p> <p>5.8.3 The deficiency holdback shall be due and payable to the <i>Contractor</i> on the 61st day following completion of all of the deficiencies listed by the <i>Consultant</i>, there being no claims for lien registered against the title to the <i>Place of the Work</i> issued in accordance with the <i>Construction Act</i>, and less any amounts disputed under an <i>Owner’s Notice of Non-Payment</i> (Form 1.1).”</p>
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PART 6 CHANGES IN THE WORK

SC35 GC 6.1 OWNER’S RIGHT TO MAKE CHANGES

SC35.1	6.1.2	<u>Add</u> the following to the end of GC 6.1.2:
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		<p>“This requirement is of the essence and it is the express intention of the parties that any claims by the <i>Contractor</i> for a change in the <i>Contract Price</i> and/or <i>Contract Time</i> shall be barred unless there has been strict compliance with PART 6 - CHANGES IN THE WORK. No verbal dealings between the parties and no implied acceptance of alterations or additions to the <i>Work</i> and no claims that the <i>Owner</i> has been unjustly enriched by any alteration or addition to the <i>Work</i>, whether in fact there is any such unjust enrichment or not, shall be the basis of a claim for additional payment under this <i>Contract</i>, an increase to the <i>Contract Price</i>, or a claim for any extension of the <i>Contract Time</i>.”</p>
SC35.2	6.1.3 to 6.1.8	<p><u>Add</u> new paragraphs 6.1.3, 6.1.4, 6.1.5, 6.1.6, 6.1.7 and 6.1.8 as follows:</p> <p>“6.1.3 The <i>Contractor</i> agrees that changes resulting from construction coordination, including but not limited to, site surface conditions, site coordination, and <i>Subcontractor and Supplier</i> coordination are included in the <i>Contract Price</i> and the <i>Contractor</i> shall be precluded from making any claim for a change in the <i>Contract Price</i> as a result of such changes.</p> <p>6.1.4 Labour costs shall be actual, prevailing rates at the <i>Place of the Work</i> paid to workers, plus statutory charges on labour including WSIB, unemployment insurance, Canada pension, vacation pay, hospitalization and medical insurance. The <i>Contractor</i> shall provide these rates, when requested by the <i>Consultant</i>, for review and/or agreement.</p> <p>6.1.5 Quotations for changes to the <i>Work</i> shall only include <i>Direct Costs</i> and be accompanied by itemized breakdowns together with detailed, substantiating quotations or cost vouchers from <i>Subcontractors</i> and <i>Suppliers</i>, submitted in a format acceptable to the <i>Consultant</i> and shall include any <i>Direct Costs</i> associated with extensions in <i>Contract Time</i>.</p> <p>6.1.6 When both additions and deletions covering related <i>Work</i> or substitutions are involved in a change to the <i>Work</i>, payment, including <i>Overhead</i> and profit, shall be calculated on the basis of the net difference, if any, with respect to that change in the <i>Work</i>.</p> <p>6.1.7 No extension to the <i>Contract Time</i> shall be granted for changes in the <i>Work</i> unless the <i>Contractor</i> can clearly demonstrate that such changes significantly alter the overall construction schedule submitted at the commencement of the <i>Work</i>. Extensions of <i>Contract Time</i> and all associated costs, if approved, shall be included in the relevant <i>Change Order</i>.</p> <p>6.1.8 When a change in the <i>Work</i> is proposed or required, the <i>Contractor</i> shall within 10 calendar days submit to the <i>Consultant</i> for review a claim for a change in <i>Contract Price</i> and/or <i>Contract Time</i>. Should 10 calendar days be insufficient to prepare the submission, the <i>Contractor</i> shall within 5 calendar days, advise the <i>Consultant</i> in writing of the proposed date of submission of the claim. Claims submitted after the dates prescribed herein will not be considered.”</p>

SC36 GC 6.2 CHANGE ORDER

SC36.1	6.2.1	<p>In paragraph 6.2.1 after the last sentence in the paragraph <u>add</u> the following:</p> <p>“The adjustment in the <i>Contract Time</i> and the <i>Contract Price</i> shall include an adjustment, if any, for delay or for the impact that the change in the <i>Work</i> has on the <i>Work</i> of the <i>Contractor</i>, and once such adjustment is made, the <i>Contractor</i> shall be precluded from making any further claims for delay or impact with respect to the change in the <i>Work</i>.”</p>
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SC36.2	6.2.3 to 6.2.5	<p><u>Add</u> new paragraphs 6.2.3, 6.2.4, and 6.2.5 as follows:</p> <p>“6.2.3 The value of a change shall be determined in one or more of the following methods as directed by the <i>Consultant</i>:</p> <p>.1 by estimate and acceptance of a lump sum;</p> <p>.2 by negotiated unit prices which include the <i>Contractor’s</i> overhead and profit, or;</p> <p>.3 by the actual <i>Direct Cost</i> to the <i>Owner</i>, such costs to be the actual cost after all credits included in the change have been deducted, plus the following ranges of mark-up on such costs:</p> <p>.1 for <i>Change Orders</i> with a value of \$0 to \$15,000 the total <i>Subcontractor/Supplier</i> mark-up including <i>Overhead</i> and profit shall be 10% and the total <i>Contractor</i> mark-up including overhead and profit shall be 5%.</p> <p>.2 for <i>Change Orders</i> in excess of \$15,000, the total <i>Subcontractor/Supplier</i> mark-up including <i>Overhead</i> and profit shall be 5% and the total <i>Contractor</i> mark-up including <i>Overhead</i> and profit shall be 3%.</p> <p>6.2.4 All quotations shall include <i>Direct Costs</i> and be submitted in a complete manner listing:</p> <p>.1 quantity of each material, .2 unit cost of each material, .3 man hours involved, .4 cost per hour, .5 <i>Subcontractor</i> quotations submitted listing items 1 to 4 above and item 6 below. .6 mark-up.</p> <p>6.2.5 The <i>Owner</i> and the <i>Consultant</i> will not be responsible for delays to the <i>Work</i> resulting from late, incomplete or inadequately broken-down valuations submitted by the <i>Contractor</i>.”</p>
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SC37 GC 6.3 CHANGE DIRECTIVE

SC37.1	6.3.6.1	<p><u>Amend</u> paragraph 6.3.6.1 by deleting the final period and adding the following:</p> <p>“.1 Ten percent (10%) for profit plus five percent (5%) for overhead on work by the <i>Contractor’s</i> own forces up to the value of \$15,000 and five percent (5%) for profit plus three percent (3%) for <i>Overhead</i> on work by the <i>Contractor’s</i> own forces in excess of \$15,000 and,</p> <p>.2 Ten percent (10%) fee on amounts paid to <i>Subcontractors</i> or <i>Suppliers</i> under subparagraph 6.3.7.9 for changes up to the value of \$15,000 and five percent (5%) on changes over \$15,000.</p> <p>Unless a <i>Subcontractor’s</i> or <i>Supplier’s</i> price has been approved by the <i>Owner</i>, the <i>Subcontractor</i> or <i>Supplier</i> shall be entitled to its actual net cost as determined in accordance with paragraph 6.3.7, plus ten percent (10%) for profit and five percent (5%) for <i>Overhead</i> on such actual net cost for changes in the <i>Work</i>, up to the value of \$15,000 and five percent</p>
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		(5%) for profit and three percent (3%) for overhead on such actual net cost changes in the <i>Work</i> in excess of \$15,000.”
SC37.2	6.3.6.2	<u>Delete</u> paragraph 6.3.6.2 and <u>replace</u> it with the following: “.2 If a change in the <i>Work</i> results in a net decrease in the <i>Contract Price</i> , the amount of the credit shall be the net cost, without deduction for <i>Overhead</i> or profit.”
SC37.3	6.3.7.1(4)	<u>Delete</u> GC 6.3.7.1(4).
SC37.4	6.3.7.7	Amend GC 6.3.7.7 by <u>deleting</u> the words “described in paragraph 6.3.7.1” and <u>replacing</u> them with “approved by the <i>Owner</i> in writing and in advance of any such expenses being incurred;”
SC37.5	6.3.7.9	Amend GC 6.3.7.9 by <u>adding</u> the following to the end of the paragraph: “...when specifically requested by the <i>Owner</i> or as directed by the <i>Consultant</i> .”
SC37.6	6.3.7.10	Amend GC 6.3.7.10 by <u>adding</u> the following to the end of the paragraph: “, provided that such amounts are not caused by negligent acts, omissions, or default of the <i>Contractor</i> or <i>Subcontractor</i> .”
SC37.7	6.3.7.13	<u>Delete</u> GC 6.3.7.13.
SC37.8	6.3.7.15	<u>Delete</u> GC 6.3.7.15.
SC37.9	6.3.7.17	<u>Delete</u> GC 6.3.7.17 in its entirety including all subparagraphs.
SC37.10	6.3.11	<u>Delete</u> GC 6.3.11 and <u>replace</u> it with the following: “6.3.11 The value of the <i>Work</i> performed as a result of a <i>Change Directive</i> shall not be eligible to be included in progress payments until the amount, including the method for determining the amount, of such <i>Change Directive</i> has been determined.”

SC38 GC 6.4 CONCEALED OR UNKNOWN CONDITIONS

SC38.1	6.4.1	<u>Delete</u> paragraph 6.4.1 in its entirety and <u>replace</u> with the following: “6.4.1.1 Prior to the submission of the bid on which the Contract was awarded, the Contractor confirms that it carefully investigated the Place of the Work insofar as the Place of Work was available for investigation and, in doing so, applied to that investigation the degree of care and skill required by paragraph 3.14.1 6.4.1.2 No claim by the <i>Contractor</i> will be considered by the <i>Owner</i> or the <i>Consultant</i> in connection with conditions which could reasonably have been ascertained by such investigation or other due diligence undertaken prior to the execution of the <i>Contract</i> .”
SC38.2	6.4.2	<u>Amend</u> paragraph 6.4.2 by <u>adding</u> a new first sentence as follows: “Having regard to paragraph 6.4.1, if the <i>Contractor</i> believes that the conditions of the <i>Place of the Work</i> differ materially from those reasonably anticipated, differ materially from those indicated in the <i>Contract Documents</i> or were concealed from discovery notwithstanding the conduct of the investigation described in paragraph 6.4.1, it shall provide the <i>Owner</i> and the <i>Consultant</i> with <i>Notice in Writing</i> no later than five (5) <i>Working Days</i> after the first observation of such conditions.” -and-



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		<u>amend</u> the existing second sentence of paragraph 6.4.2 in the second line, following the word “materially” by <u>adding</u> the words “or were concealed from discovery notwithstanding the conduct of the investigation described in paragraph 6.4.1.”.
SC38.3	6.4.3	<u>Delete</u> paragraph 6.4.3 in its entirety and <u>substitute</u> the following: “6.4.3 If the <i>Consultant</i> makes a finding pursuant to paragraph 6.4.2 that no change in the <i>Contract Price</i> or the <i>Contract Time</i> is justified, the <i>Consultant</i> shall report in writing the reasons for this finding to the <i>Owner</i> and the <i>Contractor</i> .”
SC38.4	6.4.5	<u>Add</u> new paragraph 6.4.5 as follows: “6.4.5 No claims for additional compensation or for an extension of <i>Contract Time</i> shall be allowed if the <i>Contractor</i> fails to give <i>Notice in Writing</i> to the <i>Owner</i> or <i>Consultant</i> , as required by paragraph 6.4.2.”

SC39 GC 6.5 DELAYS

SC39.1	6.5.1	In paragraph 6.5.1 <u>delete</u> the words after the word “for” in the fourth line and <u>replace</u> them with the words “...reasonable <i>Direct Costs</i> directly flowing from the delay, but excluding any consequential, indirect or special damages (including, without limitation, loss of profits, loss of opportunity or loss of productivity).”
SC39.2	6.5.2	<u>Delete</u> GC 6.5.2 in its entirety and <u>replace</u> it with the following: “6.5.2 If the <i>Contractor</i> is delayed in the performance of the <i>Work</i> by a stop work order issued by a court or other public authority and providing that such order was issued on account of a direct breach, violation, contravention, or a failure to abide by any laws, ordinances, rules, regulations, or codes by the <i>Owner</i> , <i>Other Contractor(s)</i> , or the <i>Consultant</i> , and relating to the <i>Work</i> or the <i>Place of the Work</i> , then the <i>Contract Time</i> shall be extended for such reasonable time as the <i>Consultant</i> may determine. The <i>Contractor</i> shall be reimbursed by the <i>Owner</i> for reasonable <i>Direct Costs</i> directly flowing from the delay, but excluding any consequential, indirect or special damages (including, without limitation, loss of profits, loss of opportunity or loss of productivity).”
SC39.3	6.5.3	<u>Delete</u> paragraph 6.5.3 in its entirety and <u>replace</u> with the following: “6.5.3 If either party is delayed in the performance of their obligations under this <i>Contract</i> by <i>Force Majeure</i> , then the <i>Contract Time</i> shall be extended for such reasonable time as the <i>Owner</i> and the <i>Contractor</i> shall agree. The extension of time shall not be less than the time lost as a result of the event causing the delay, unless the parties agree to a shorter extension. Neither party shall be entitled to payment for costs incurred by such delays. Upon reaching agreement on the extension of the <i>Contract Time</i> attributable to the <i>Force Majeure</i> event, the <i>Owner</i> and the <i>Contractor</i> shall execute a <i>Change Order</i> indicating the length of the extension to the <i>Contract Time</i> and confirming that there are no costs payable by the either party for the extension of <i>Contract Time</i> . However, if at the time an event of <i>Force Majeure</i> arises a party is in default of its obligations under the <i>Contract</i> and has received a notice of default pursuant to PART 7 – DEFAULT NOTICE, this paragraph 6.5.3 shall not excuse a party from its obligation to cure the default(s). For greater certainty, the defaulting party, to the extent possible, must continue to address and cure the default notwithstanding an event of <i>Force Majeure</i> .”
SC39.4	6.5.4	<u>Delete</u> paragraph 6.5.4 in its entirety and <u>replace</u> it with the following:



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		<p>“6.5.4 No extension or compensation shall be made for delay or impact on the <i>Work</i> unless notice in writing of a claim is given to the <i>Consultant</i> not later than ten (10) <i>Working Days</i> after the commencement of the delays or impact on the <i>Work</i>, provided however, that, in the case of a continuing cause of delay or impact on the <i>Work</i>, only one notice of claim shall be necessary.”</p>
SC39.5	6.5.6 to 6.5.8	<p><u>Add</u> new paragraphs 6.5.6, 6.5.7 and 6.5.8 as follows:</p> <p>“6.5.6 If the <i>Contractor</i> is delayed in the performance of the <i>Work</i> by an act or omission of the <i>Contractor</i> or anyone directly or indirectly employed or engaged by the <i>Contractor</i>, or by any cause within the <i>Contractor’s</i> control, then (i) firstly, at its expense, and to the extent possible, the <i>Contractor</i> shall accelerate the work and/or provide overtime work to recover time lost by a delay arising under this paragraph 6.5.6, and (ii) secondly, where it is not possible for the <i>Contractor</i> to recover the time lost by implementing acceleration measures and/or overtime work, the <i>Contract Time</i> may be extended for such reasonable time as the <i>Owner</i> may decide in consultation with the <i>Consultant</i> and the <i>Contractor</i>. The <i>Owner</i> shall be reimbursed by the <i>Contractor</i> for all reasonable costs incurred by the <i>Owner</i> as the result of such delay, including, but not limited to, <i>Owner’s</i> staff costs, the cost of all additional services required by the <i>Owner</i> from the <i>Consultant</i> or any sub-consultants, project managers, or others employed or engaged by the <i>Owner</i>, and in particular, the costs of the <i>Consultant’s</i> services during the period between the date of <i>Substantial Performance of the Work</i> stated in Article A-1 herein, as the same may be extended through the provision of these General Conditions, and any later or actual date of <i>Substantial Performance of the Work</i> achieved by the <i>Contractor</i>.</p> <p>6.5.7 Without limiting the obligations of the <i>Contractor</i> described in GC 3.2 – CONSTRUCTION BY OWNER OR OTHER CONTRACTORS or GC 9.4 – CONSTRUCTION SAFETY, the <i>Owner</i> or <i>Consultant</i> may, by <i>Notice in Writing</i>, direct the <i>Contractor</i> to stop the <i>Work</i> where the <i>Owner</i> or <i>Consultant</i> determines that there is an imminent risk to the safety of persons or property at the <i>Place of the Work</i>. In the event that the <i>Contractor</i> receives such notice, it shall immediately stop the <i>Work</i> and secure the site. The <i>Contractor</i> shall not be entitled to an extension of the <i>Contract Time</i> or to an increase in the <i>Contract Price</i> unless the resulting delay, if any, would entitle the <i>Contractor</i> to an extension of the <i>Contact Time</i> or the reimbursement of the <i>Contractor’s</i> costs as provided in paragraphs 6.5.1, 6.5.2 or 6.5.3.</p> <p>6.5.8 No claim for delay shall be made by the <i>Contractor</i> and the <i>Contract Time</i> shall not be extended due to climatic conditions or arising from the <i>Contractor’s</i> efforts to maintain the <i>Construction Schedule</i>.”</p>

PART 7 DEFAULT NOTICE

SC40 GC 7.1 OWNER’S RIGHT TO PERFORM THE WORK, TERMINATE THE CONTRACTOR’S RIGHT TO CONTINUE WITH THE WORK OR TERMINATE THE CONTRACT

SC40.1	7.1.2	In GC 7.1.2, delete the words “and if the <i>Consultant</i> has given a written statement to the <i>Owner</i> and <i>Contractor</i> which provides the detail of such neglect to perform the <i>Work</i> properly or such failure to comply with the requirements of the <i>Contract</i> to a substantial degree”.
SC40.2	7.1.3.4	<p><u>Add</u> a new subparagraph 7.1.3.4 as follows:</p> <p>“.4 an “acceptable schedule” as referred to in subparagraph 7.1.3.2. means a schedule approved by the <i>Consultant</i> and the <i>Owner</i> wherein the default can be corrected within the balance of the <i>Contract Time</i> and shall not cause delay to any other aspect of the</p>



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		<i>Work</i> or the work of other contractors, and in no event shall it be deemed to give a right to extend the <i>Contract Time</i> .”
SC40.3	7.1.4.1	<u>Delete</u> subparagraph 7.1.4.1 and <u>replace</u> it with the following: “.1 correct such default and deduct the cost, including <i>Owner’s</i> expenses, thereof from any payment then or thereafter due the <i>Contractor</i> .”
SC40.4	7.1.4.2	<u>Delete</u> subparagraph 7.1.4.2 and <u>replace</u> it with the following: “.2 by providing <i>Notice in Writing</i> to the <i>Contractor</i> , terminate the <i>Contractor’s</i> right to continue with the <i>Work</i> in whole or in part or terminate the <i>Contract</i> , and publish a notice of termination (Form 8) in accordance with the <i>Act</i> .”
SC40.5	7.1.5.3	In subparagraph 7.1.5.3 <u>delete</u> the words: “however, if such cost of finishing the <i>Work</i> is less than the unpaid balance of the <i>Contract Price</i> , the <i>Owner</i> shall pay the <i>Contractor</i> the difference”
SC40.6	7.1.6 to 7.1.10	<u>Delete</u> GC 7.1.6 and <u>replace</u> it with new paragraphs 7.1.6, 7.1.7, 7.1.8, 7.1.9 and 7.1.10 as follows: “7.1.6 In addition to its right to terminate the <i>Contract</i> set out herein, the <i>Owner</i> may terminate this <i>Contract</i> at any time for any other reason and without cause upon giving the <i>Contractor</i> fifteen (15) <i>Working Days Notice in Writing</i> to that effect. In such event, the <i>Contractor</i> shall be entitled to be paid for all <i>Work</i> performed including reasonable profit, for loss sustained upon <i>Products</i> and <i>Construction Equipment</i> , and such other damages as the <i>Contractor</i> may have sustained as a result of the termination of the <i>Contract</i> , but in no event shall the <i>Contractor</i> be entitled to be compensated for any loss of profit on unperformed portions of the <i>Work</i> , or indirect, special, or consequential damages incurred. 7.1.7 The <i>Owner</i> may suspend <i>Work</i> under this <i>Contract</i> at any time for any reason and without cause upon giving the <i>Contractor Notice in Writing</i> to that effect. In such event, the <i>Contractor</i> shall be entitled to be paid for all <i>Work</i> performed to the date of suspension and be compensated for all actual costs incurred arising from the suspension, including reasonable profit, for loss sustained upon <i>Products</i> and <i>Construction Equipment</i> , and such other damages as the <i>Contractor</i> may have sustained as a result of the suspension of the <i>Work</i> , but in no event shall the <i>Contractor</i> be entitled to be compensated for any indirect, special, or consequential damages incurred. In the event that the suspension continues for more than thirty (30) calendar days, the <i>Contract</i> shall be deemed to be terminated and the provisions of paragraph 7.1.6 shall apply. 7.1.8 In the case of either a termination of the <i>Contract</i> or a suspension of the <i>Work</i> under GC 7.1 - OWNER’S RIGHT TO PERFORM THE WORK, TERMINATE THE CONTRACTOR’S RIGHT TO CONTINUE WITH THE WORK, OR TERMINATE THE CONTRACT or GC 7.2 - CONTRACTOR’S RIGHT TO SUSPEND THE WORK OR TERMINATE THE CONTRACT, the <i>Contractor</i> shall use its best commercial efforts to mitigate the financial consequences to the <i>Owner</i> arising out of the termination or suspension, as the case may be. 7.1.9 Upon the resumption of the <i>Work</i> following a suspension under GC 7.1 - OWNER’S RIGHT TO PERFORM THE WORK, TERMINATE THE CONTRACTOR’S RIGHT TO CONTINUE WITH THE WORK, OR TERMINATE THE CONTRACT or GC 7.2 - CONTRACTOR’S RIGHT TO SUSPEND THE WORK OR TERMINATE THE CONTRACT, the <i>Contractor</i> will endeavour to minimize the delay and financial consequences arising out of the suspension. 7.1.10 The <i>Contractor’s</i> obligations under the <i>Contract</i> as to quality, correction, and warranty of the <i>Work</i> performed by the <i>Contractor</i> up to the time of termination or



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		suspension shall continue after such termination of the <i>Contract</i> or suspension of the <i>Work</i> .”
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SC41 GC 7.2 CONTRACTOR’S RIGHT TO SUSPEND THE WORK OR TERMINATE THE CONTRACT

SC41.1	7.2.2	<p><u>Delete</u> paragraph 7.2.2 and <u>replace</u> it with the following:</p> <p>“7.2.2 If the <i>Work</i> is suspended or otherwise delayed for a period of 40 consecutive <i>Working Days</i> or more under a stop work order issued by a court or other public authority on account of a breach, violation, contravention, or a failure to abide by any laws, ordinances, rules, regulations, or codes directly by the <i>Owner</i>, the <i>Owner’s</i> other contractor(s), or the <i>Consultant</i>, and relating to the <i>Work</i> or the <i>Place of the Work</i>, the <i>Contractor</i> may, without prejudice to any other right or remedy the <i>Contractor</i> may have, terminate the <i>Contract</i> by giving the <i>Owner</i> Notice in <i>Writing</i> to that effect.”</p>
SC41.2	7.2.3.1	<u>Delete</u> subparagraph 7.2.3.1 in its entirety.
SC41.3	7.2.3.2	<u>Delete</u> subparagraph 7.2.3.2 in its entirety.
SC41.4	7.2.3.4	In subparagraph 7.2.3.4, <u>delete</u> the words "except for GC 5.1 - FINANCING INFORMATION REQUIRED OF THE OWNER".
SC41.5	7.2.5	<p><u>Delete</u> paragraph 7.2.5 and <u>replace</u> it with the following:</p> <p>“7.2.5 If the default cannot be corrected within the 5 <i>Working Days</i> specified in paragraph 7.2.4, the <i>Owner</i> shall be deemed to have cured the default if it:</p> <ul style="list-style-type: none"> .1 commences correction of the default within the specified time; .2 provides the <i>Contractor</i> with an acceptable schedule for such correction; and, .3 completes the correction in accordance with such schedule.”
SC41.6	7.2.6 to 7.2.9	<p><u>Add</u> new paragraphs 7.2.6, 7.2.7, 7.2.8 and 7.2.9 as follows:</p> <p>“7.2.6 If the <i>Contractor</i> terminates the <i>Contract</i> under the conditions described in GC 7.2 – CONTRACTOR’S RIGHT TO SUSPEND THE WORK OR TERMINATE THE CONTRACT, the <i>Contractor</i> shall be entitled to be paid for all <i>Work</i> performed to the date of termination, as determined by the <i>Consultant</i>. The <i>Contractor</i> shall also be entitled to recover the direct costs associated with termination, including the costs of demobilization and losses sustained on <i>Products</i> and <i>Construction Equipment</i>. The <i>Contractor</i> shall not be entitled to any recovery for any special, indirect or consequential losses, including loss of profit.</p> <p>7.2.7 The <i>Contractor</i> shall not be entitled to give notice of the <i>Owner’s</i> default or terminate the <i>Contract</i> in the event the <i>Owner</i> withholds certificates or payment or both in accordance with the <i>Contract</i> because of:</p> <ul style="list-style-type: none"> .1 the <i>Contractor’s</i> failure to pay all legitimate claims promptly, or .2 the failure of the <i>Contractor</i> to discharge construction liens which are registered against the title to the <i>Place of the Work</i>. <p>7.2.8 The <i>Contractor’s</i> obligations under the <i>Contract</i> as to quality, correction and warranty of the <i>Work</i> performed by the <i>Contractor</i> up to the effective date of</p>



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		<p>termination shall continue in force and shall survive termination of this <i>Contract</i> by the <i>Contractor</i>.</p> <p>7.2.9 If the <i>Contractor</i> suspends the <i>Work</i> or terminates the <i>Contract</i> as provided for in GC 7.2 – CONTRACTOR’S RIGHT TO SUSPEND THE WORK OR TERMINATE THE CONTRACT, the <i>Contractor</i> shall ensure the site and the <i>Work</i> are left in a safe, secure condition as required by authorities having jurisdiction at the <i>Place of the Work</i> and the <i>Contract Documents</i>.”</p>
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PART 8 DISPUTE RESOLUTION

SC42 GC 8.1 AUTHORITY OF THE CONSULTANT

SC42.1	8.1.3	<p><u>Delete</u> paragraph 8.1.3 in its entirety and <u>substitute</u> as follows:</p> <p>“8.1.3 If a dispute is not resolved promptly, the <i>Consultant</i> will give such instruction as in the <i>Consultant’s</i> opinion are necessary for the proper performance of the <i>Work</i> and to prevent delays pending settlement of the dispute. The parties shall act immediately according to such instructions, it being understood that by doing so neither party will jeopardize any claim the party may have.”</p>
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SC43 GC 8.2 ADJUDICATION

SC43.13	8.2.2 to 8.2.7	<p><u>Add</u> new GC 8.2.2, 8.2.3, 8.2.4, 8.2.5, 8.2.6, and 8.2.7 as follows:</p> <p>“8.2.2 Save and except where the <i>Contractor</i> has given an undertaking, in accordance with the <i>Act</i>, to refer a dispute to <i>Adjudication</i>, prior to delivering a notice of <i>Adjudication</i> in a form prescribed by the <i>Act</i>, the parties agree to first address all disputes with at least one in-person meeting with the <i>Owner’s</i> representative, the <i>Consultant’s</i> representative, and the <i>Contractor’s</i> representative. The parties agree that such steps will be taken to resolve any disputes in a timely and cost-effective manner.</p> <p>8.2.3 Notwithstanding any other provisions in PART 8 DISPUTE RESOLUTION, the parties shall engage in <i>Adjudication</i> proceedings as required by, and in accordance with, the <i>Construction Act</i>.</p> <p>8.2.4 The following procedures shall apply to any <i>Adjudication</i> the parties engage in under the <i>Construction Act</i>.</p> <p>.1 any hearings shall be held at a venue within the jurisdiction of the <i>Place of the Work</i> or such other venue as the parties may agree and which is acceptable to the adjudicator;</p> <p>.2 the <i>Adjudication</i> shall be conducted in English;</p> <p>.3 each party may be represented by counsel throughout an <i>Adjudication</i>;</p> <p>.4 there shall not be any oral communications with respect to issues in dispute that are the subject of an <i>Adjudication</i> between a party and the adjudicator unless it is made in the presence of both parties or their legal representatives; and</p> <p>.5 a copy of all written communications between the adjudicator and a party shall be given to the other party at the same time.</p>
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	<p>8.2.5 Any documents or information disclosed by the parties during an <i>Adjudication</i> are confidential and the parties shall not use such documents or information for any purpose other than the <i>Adjudication</i> in which they are disclosed and shall not disclose such documents and information to any third party, unless otherwise required by law, save and except the for the adjudicator.</p> <p>8.2.6 If the <i>Contractor</i> fails to comply with any of the notice requirements set out in the <i>Contract</i>, including the time limits set out in any of the following:</p> <ul style="list-style-type: none"> .1 GC 6.4 – CONCEALED OR UNKNOWN CONDITIONS; .2 GC 6.5 – DELAYS; .3 GC 6.6 – CLAIMS FOR A CHANGE IN CONTRACT PRICE; .4 PART 8 DISPUTE RESOLUTION .5 GC 9.2 – TOXIC AND HAZARDOUS SUBSTANCES .6 GC 9.3 – ARTIFACTS AND FOSSILS; or .7 GC 9.5 - MOULD <p>in respect of any claim or dispute, the <i>Contractor</i> shall have no entitlement whatsoever (including to an increase in the <i>Contract Price</i>, or an extension of <i>Contract Time</i>) in the context of an <i>Adjudication</i> under the <i>Construction Act</i> and waives the right to make any such claims or disputes in an <i>Adjudication</i>. This GC 8.2.6 shall operate conclusively as an estoppel and bar in the event such claims or disputes are brought in an <i>Adjudication</i> and the <i>Owner</i> may rely on this GC 8.2.6 as a complete defence to any such claims or disputes.</p> <p>8.2.7 The parties hereby acknowledge and agree,</p> <ul style="list-style-type: none"> .1 that counterclaims, claims of set-off or the exercise or use of other contractual rights that permit the <i>Owner</i> to withhold, deduct or retain from monies otherwise owed to the <i>Contractor</i> under the <i>Contract</i> may be referred to, and included as part of, <i>Adjudications</i> under the <i>Construction Act</i>; .2 that disputes related to the termination or abandonment of the <i>Contract</i>, as well as any disputes that arise or are advanced following the termination or abandonment of the <i>Contract</i>, shall not be referred to <i>Adjudication</i> under the <i>Construction Act</i>; .3 that notice(s) of <i>Adjudication</i>, with respect to any dispute or claim relating to the <i>Project</i>, shall not be given, and no <i>Adjudication</i> shall be commenced following <i>Contract</i> completion, <i>Contract</i> abandonment, or termination of the <i>Contract</i>; .4 that any <i>Adjudication</i> between the <i>Contractor</i> and a <i>Subcontractor</i> or a supplier that relates to an <i>Adjudication</i> between the <i>Owner</i> and the <i>Contractor</i> shall be joined together to be adjudicated by a single adjudicator, provided that the adjudicator agrees to do so, and the <i>Contractor</i> shall include a provision in each of its contracts that contain an equivalent obligation to this GC 8.2.7.4; and .5 that, other than where the <i>Contractor</i> is obliged to commence an <i>Adjudication</i> pursuant to an undertaking under the <i>Construction Act</i>, neither the <i>Owner</i> nor the <i>Contractor</i> shall commence an <i>Adjudication</i> during the <i>Restricted Period</i>. <p>8.2.8 The parties acknowledge and agree that no <i>Adjudication</i>, arbitration, action, suit or other proceeding may be brought by the <i>Contractor</i> against the <i>Owner</i> in respect of a claim for an increase to the <i>Contract Price</i> as set out in GC 6.6, before the <i>Consultant</i> has issued its findings in respect of same, pursuant to GC 6.6.5. For greater clarity and without limiting the foregoing, the amount applied for in each <i>Proper Invoice</i> shall not include any amounts pertaining to the <i>Contractor's</i> claim for an increase in <i>Contract Price</i> unless and until the <i>Consultant</i> has issued a written notice to the <i>Contractor</i> regarding the validity of such claim, as provided for in GC 6.6.5. However, nothing in this GC 8.2.8 shall prevent a <i>Contractor</i> from commencing an <i>Adjudication</i> where, pursuant to the <i>Construction Act</i>, the <i>Contractor</i> is required</p>
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		to give an undertaking to a <i>Subcontractor</i> to commence an <i>Adjudication</i> following delivery of a <i>Notice of Non-Payment</i> .”
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SC44 GC 8.3 NEGOTIATION, MEDIATION AND ARBITRATION

SC44.1	8.3.1	Amend paragraph 8.3.1 by changing part of the second line from “shall appoint a <i>Project Mediator</i> ” to “may appoint a <i>Project Mediator</i> , except that such an appointment shall only be made if both the <i>Owner</i> and the <i>Contractor</i> agree.”
SC44.2	8.3.4	Amend paragraph 8.3.4 by changing part of the second line from “the parties shall request the <i>Project Mediator</i> ” to “and subject to paragraph 8.3.1 the parties may request the <i>Project Mediator</i> ”.
SC44.3	8.3.6 to 8.3.9	<p>Delete paragraphs 8.3.6, 8.3.7 and 8.3.8 in their entirety and <u>replace</u> them with the following new GCs 8.3.6, 8.3.7, 8.3.8, and 8.3.9:</p> <p>“8.3.6 The dispute may be finally resolved by arbitration under the Rules for Arbitration of Construction Disputes as provided in CCDC 40 in effect at the time of bid closing, provided that both the <i>Contractor</i> and the <i>Owner</i> agree. If the <i>Contractor</i> and the <i>Owner</i> agree to resolve the dispute by arbitration, the arbitration shall be conducted in the jurisdiction of the <i>Place of the Work</i>.</p> <p>8.3.7 Prior to delivering a notice of <i>Adjudication</i> in a form prescribed by the <i>Act</i>, the parties agree to first address all disputes by attending at least one meeting with the <i>Owner’s</i> representative, the <i>Consultant’s</i> representative, and the <i>Contractor’s</i> representative, prior to commencing an <i>Adjudication</i>. The parties agree that such steps will be taken to resolve any disputes in a timely and cost effective manner. If a resolution to the dispute(s) is not made at such a meeting, any party who plans to commence an <i>Adjudication</i> shall provide the other party with 5 <i>Working Days’ Notice in Writing</i> of its intention to issue a notice of <i>Adjudication</i>.</p> <p>8.3.8 Other than where the <i>Contractor</i> is obliged to commence an <i>Adjudication</i> pursuant to an undertaking under the <i>Construction Act</i>, neither the <i>Owner</i> nor the <i>Contractor</i> shall commence an <i>Adjudication</i> during the <i>Restricted Period</i>.</p> <p>8.3.9 Where either party has delivered a notice of <i>Adjudication</i> in a form prescribed by the <i>Act</i>, the procedures and rules set out under the <i>Construction Act</i> and the regulations thereto shall govern the <i>Adjudication</i>.”</p>

PART 9 PROTECTION OF PERSONS AND PROPERTY

SC45 GC 9.1 PROTECTION OF WORK AND PROPERTY

SC45.1	9.1.1.1	<p>Delete subparagraph 9.1.1.1 in its entirety and <u>substitute</u> the following:</p> <p>“.1 errors in the <i>Contract Documents</i> which the <i>Contractor</i> could not have discovered applying the standard of care described in paragraph 3.14.1;”</p>
SC45.2	9.1.2	<p>Delete paragraph 9.1.2 in its entirety and <u>substitute</u> as follows:</p> <p>“9.1.2 Before commencing any <i>Work</i>, the <i>Contractor</i> shall determine the locations of all underground or hidden utilities and structures indicated in or inferable from the <i>Contract Documents</i>, or that are inferable from an inspection of the <i>Place of the Work</i> exercising the degree of care and skill described in paragraph 3.14.1.”</p>
SC45.3	9.1.5	Add new paragraph 9.1.5 as follows:



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		<p>“9.1.5 With respect to any damage to which paragraphs 9.1.3 or 9.1.4 apply, the <i>Contractor</i> shall neither undertake to repair or replace any damage whatsoever to the work of other contractors, or to adjoining property, nor acknowledge that the same was caused or occasioned by the <i>Contractor</i>, without first consulting the <i>Owner</i> and receiving written instructions as to the course of action to be followed from either the <i>Owner</i> or the <i>Consultant</i>. Where, however, there is danger to life, the environment, or public safety, the <i>Contractor</i> shall take such emergency action as it deems necessary to remove the danger.”</p>
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SC46 GC 9.2 TOXIC AND HAZARDOUS SUBSTANCES

SC46.1	9.2.1	<p>Amend GC 9.2.1 by <u>inserting</u> the following to the end of the paragraph:</p> <p>“For the purposes of GC 9.2 – TOXIC AND HAZARDOUS SUBSTANCES, <i>Excess Soil</i> shall not be considered a ‘toxic and hazardous substance’.”</p>
SC46.2	9.2.5.5	<p>Add a new subparagraph 9.2.5.5 as follows:</p> <p>“.5 in addition to the steps described in subparagraph 9.2.5.3, take any further steps it deems necessary to mitigate or stabilize any conditions resulting from encountering toxic or hazardous substances or materials.”</p>
SC46.3	9.2.6	<p><u>Amend</u> GC 9.2.6 by <u>adding</u> the following words after the word “responsible” in the second line:</p> <p>“or whether any toxic or hazardous substances or materials already at the <i>Place of the Work</i> (and which were then harmless or stored, contained or otherwise dealt with in accordance with legal and regulatory requirements) were dealt with by the <i>Contractor</i> or anyone for whom the <i>Contractor</i> is responsible in a manner which does not comply with legal and regulatory requirements, or which threatens human health and safety or the environment, or material damages to the property of the <i>Owner</i> or others,”.</p>
SC46.4	9.2.8	<p><u>Amend</u> GC 9.2.8 by <u>adding</u> the following words after the word “responsible” in the second line:</p> <p>“or whether any toxic or hazardous substances or materials already at the <i>Place of the Work</i> (and which were then harmless or stored, contained or otherwise dealt with in accordance with legal and regulatory requirements) were dealt with by the <i>Contractor</i> or anyone for whom the <i>Contractor</i> is responsible in a manner which does not comply with legal and regulatory requirements, or which threatens human health and safety or the environment, or material damages to the property of the <i>Owner</i> or others,”.</p>
SC46.5	9.2.10	<p><u>Add</u> new paragraph 9.2.10 as follows:</p> <p>“9.2.10 The <i>Contractor</i>, <i>Subcontractors</i> and <i>Suppliers</i> shall not bring on to the <i>Place of the Work</i> any toxic or hazardous substances and materials except as required in order to perform the <i>Work</i>. If such toxic or hazardous substances or materials are required, storage in quantities sufficient to allow work to proceed to the end of any current work week only shall be permitted. All such toxic and hazardous materials and substances shall be handled and disposed of only in accordance with all laws and regulations that are applicable at the <i>Place of the Work</i>.”</p>

SC47 GC 9.4 CONSTRUCTION SAFETY

SC47.1	9.4.1	<p><u>Delete</u> GC 9.4.1 in its entirety and <u>replace</u> it with the following:</p>
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		<p>"9.4.1 The <i>Contractor</i> shall be solely responsible for construction safety at the <i>Place of the Work</i> and for compliance with the rules, regulations, and practices required by the <i>OHSA</i>, including, but not limited to those of the "constructor", and shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the performance of the <i>Work</i>. The <i>Contractor's</i> health and safety program documentation shall be made available for review by the <i>Owner</i> or <i>Consultant</i> immediately upon request. Without limiting the foregoing, the <i>Contractor</i> shall be solely responsible for construction safety in respect of the <i>Consultant, Subcontractors</i> and <i>Suppliers</i>, the <i>Owner's</i> own forces, <i>Other Contractors</i>, and all persons attending the <i>Place of the Work</i> during the course of the <i>Project</i>."</p>
SC47.2	9.4.2	Amend GC 9.4.2 by <u>adding</u> the following words after "and the <i>Contractor</i> ": ", <i>Subcontractors</i> and <i>Suppliers</i> ".
SC47.3	9.4.3	Amend GC 9.4.3 by <u>adding</u> the following words after "and the <i>Contractor</i> ": ", <i>Subcontractors</i> and <i>Suppliers</i> ".
SC47.4	9.4.4	<p><u>Delete</u> GC 9.4.4 and replace it with the following:</p> <p>"9.4.4 The <i>Owner</i> undertakes to include in its contracts with other contractors and in its instructions to its own forces the requirement that the other contractor or its own forces, as the case may be, comply with the policies and procedures of and the directions and instructions from the <i>Contractor</i> with respect to occupational health and safety and related matters."</p>
SC47.5	9.4.5	<p><u>Delete</u> GC 9.4.5 in its entirety and <u>replace</u> it with the following:</p> <p>"9.4.5 Prior to the commencement of the <i>Work</i>, the <i>Contractor</i> shall submit to the <i>Owner</i>:</p> <ul style="list-style-type: none"> .1 a current WSIB clearance certificate; .2 copies of the <i>Contractor's</i> insurance policies having application to the <i>Project</i> or certificates of insurance, at the option of the <i>Owner</i>; .3 documentation setting out the <i>Contractor's</i> in-house safety programs; .4 a copy of the Notice of Project filed with the Ministry of Labour naming itself as "constructor" under the <i>OHSA</i>; and .5 copies of any documentation or notices to be filed or delivered to the authorities having jurisdiction for the regulation of occupational health and safety at the <i>Place of the Work</i>;"
SC47.6	9.4.6 to 9.4.12	<p><u>Add</u> new GC 9.4.6, 9.4.7, 9.4.8, 9.4.9, 9.4.10, 9.4.11, and 9.4.12 as follows:</p> <p>"9.4.6 The <i>Contractor</i> shall indemnify and save harmless the <i>Owner</i>, its agents, trustees, officers, directors, employees, consultants, successors, appointees, and assigns from and against the consequences of any and all safety infractions committed by the <i>Contractor</i> under <i>OHSA</i> and any other occupational health and safety legislation in force at the <i>Place of the Work</i> including the payment of legal fees and disbursements on a solicitor and client basis. Such indemnity shall apply to the extent to which the <i>Owner</i> is not covered by insurance.</p> <p>9.4.7 If the <i>Owner</i> is of the reasonable opinion that the <i>Contractor</i> has not taken such precautions as are necessary to ensure compliance with the requirements of paragraph 9.4.1, the <i>Owner</i> may take any remedial measures which it deems necessary, including stopping the performance of all or any portion of the <i>Work</i>, and</p>



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		<p>the <i>Owner</i> may use its employees, the <i>Contractor</i>, any <i>Subcontractor</i> or any other contractors to perform such remedial measures.</p> <p>9.4.8 The <i>Contractor</i> shall file any notices or any similar document required pursuant to the <i>Contract</i> or the safety regulations in force at the <i>Place of the Work</i>. This duty of the <i>Contractor</i> will be considered to be included in the <i>Work</i> and no separate payment therefore will be made to the <i>Contractor</i>.</p> <p>9.4.9 Unless otherwise provided in the <i>Contract Documents</i>, the <i>Contractor</i> shall develop, maintain and supervise for the duration of the <i>Work</i> a comprehensive safety program that will effectively incorporate and implement all required safety precautions. The program shall, at a minimum, respond fully to the applicable safety regulations and general construction practices for the safety of persons or property, including, without limitation, any general safety rules and regulations of the <i>Owner</i> and any workers' compensation or occupational health and safety statutes or regulations in force at the <i>Place of the Work</i>.</p> <p>9.4.10 The <i>Contractor</i> shall provide a copy of the safety program described in GC 9.4.9 hereof to the <i>Consultant</i> for delivery to the <i>Owner</i> prior to the commencement of the <i>Work</i>, and shall, ensure, as far as it is reasonably practical to do so, that every employer and worker performing work in respect of the <i>Project</i> complies with such program.</p> <p>9.4.11 The <i>Contractor</i> shall arrange regular safety meetings, and shall supply and maintain, at its own expense, at its office or other well-known place at the job site, safety equipment necessary to protect the workers and general public against accident or injury as prescribed by the authorities having jurisdiction at the <i>Place of the Work</i>, including, without limitation, articles necessary for administering first-aid to any person and an emergency procedure for the immediate removal of any injured person to a hospital or a doctor's care.</p> <p>9.4.12 The <i>Contractor</i> shall promptly report in writing to the <i>Owner</i> and the <i>Consultant</i> all accidents of any sort arising out of or in connection with the performance of the <i>Work</i>, whether on or adjacent to the job site, giving full details and statement of witnesses. If death or serious injuries or damages are caused, the accident shall be promptly reported by the <i>Contractor</i> to the <i>Owner</i> and the <i>Consultant</i> by telephone or messenger in addition to any reporting required under the applicable safety regulations.”</p>
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PART 10 GOVERNING REGULATIONS

SC48 GC 10.1 TAXES AND DUTIES

SC48.1	10.1.2	<p><u>Amend</u> paragraph 10.1.2 by <u>adding</u> the following sentence to the end of the paragraph:</p> <p>“For greater certainty, the <i>Contractor</i> shall not be entitled to any mark-up for overhead or profit on any increase in such taxes and duties and the <i>Owner</i> shall not be entitled to any credit relating to mark-up for overhead or profit on any decrease in such taxes. The <i>Contractor</i> shall provide a detailed breakdown of <u>Additional taxes</u> if requested by the <i>Owner</i> in a form satisfactory to the <i>Owner</i>.”</p>
SC48.2	10.1.3	<p><u>Add</u> new paragraph 10.1.3 as follows:</p> <p>“10.1.3 Where the <i>Owner</i> is entitled to an exemption or a recovery of sales taxes, customs duties, excise taxes or <i>Value Added Taxes</i> applicable to the <i>Contract</i>, the <i>Contractor</i> shall, at the request of the <i>Owner</i>, assist with the application for any exemption, recovery or refund of all such taxes and duties and all amounts recovered or exemptions obtained shall be for the sole benefit of the <i>Owner</i>. The</p>



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		<i>Contractor</i> agrees to endorse over to the <i>Owner</i> any cheques received from the federal or provincial governments, or any other taxing authority, as may be required to give effect to this paragraph."
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SC49 GC 10.2 LAWS, NOTICES, PERMITS, AND FEES

SC49.1	10.2.5	<p><u>Amend</u> paragraph 10.2.5 by <u>adding</u> the words "Subject to paragraph 3.4" at the beginning of the paragraph.</p> <p>-and-</p> <p><u>Add</u> the following to the end of the second sentence:</p> <p>"...and no further <i>Work</i> on the affected components of the <i>Contract</i> shall proceed until these directives have been obtained by the <i>Contractor</i> from the <i>Consultant</i>."</p>
SC49.2	10.2.6	<p><u>Amend</u> paragraph 10.2.6 by <u>adding</u> the following sentence to the end of the paragraph:</p> <p>"In the event the <i>Owner</i> suffers loss or damage as a result of the <i>Contractor's</i> failure to comply with paragraph 10.2.5 and notwithstanding any limitations described in paragraph 12.1.1, the <i>Contractor</i> agrees to indemnify and to hold harmless the <i>Owner</i> and the <i>Consultant</i> from and against any claims, demands, losses, costs, damages, actions suits or proceedings resulting from such failure by the <i>Contractor</i>."</p>
SC49.3	10.2.7	<p><u>Amend</u> paragraph 10.2.7 by inserting the words "which changes were not, or could not have reasonably been known to the <i>Owner</i> or to the <i>Contractor</i>, as applicable, at the time of bid closing and which changes did not arise as a result of a public emergency or other <i>Force Majeure</i> event" to the second line, after the words "authorities having jurisdiction".</p>
SC49.4	10.2.8	<p><u>Add</u> new paragraph 10.2.8 as follows:</p> <p>"10.2.8 The <i>Contractor</i> shall furnish all certificates that are required or given by the appropriate governmental authorities as evidence that the <i>Work</i> as installed conforms with the laws and regulations of authorities having jurisdiction, including certificates of compliance for the <i>Owner's</i> occupancy or partial occupancy. The certificates are to be final certificates giving complete clearance of the <i>Work</i>, in the event that such governmental authorities furnish such certificates."</p>

SC50 GC 10.4 WORKERS' COMPENSATION

SC50.1	10.4.1	<p><u>Delete</u> paragraph 10.4.1 and <u>replace</u> with the following:</p> <p>"10.4.1 Prior to commencing the <i>Work</i>, and with each and every application for payment thereafter, including the <i>Contractor's</i> application for payment of the holdback amount following <i>Substantial Performance of the Work</i> and again with the <i>Contractor's</i> application for final payment, the <i>Contractor</i> shall provide evidence of compliance with workers' compensation legislation in force at the <i>Place of the Work</i>, including payments due thereunder."</p>
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SC51 GC 11.1 INSURANCE

SC51.1	11.1	<p><u>Delete</u> entirety of GC 11.1 and <u>replace</u> with the following:</p> <p>"GC 11.1 INSURANCE</p>
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		<p>11.1.1 Without restricting the generality of GC 12 – INDEMNIFICATION, the <i>Contractor</i> shall provide, maintain, and pay for the insurance coverages specified in GC 11.1 – INSURANCE. Unless otherwise stipulated, the duration of each insurance policy shall be from the date of commencement of the <i>Work</i> until the expiration of the warranty periods set out in the <i>Contract Documents</i>. Prior to commencement of the <i>Work</i> and upon the placement, renewal, <u>amendment</u>, or extension of all or any part of the insurance, the <i>Contractor</i> shall promptly provide the <i>Owner</i> with confirmation of coverage and, if required, a certified true copy of the policies certified by an authorized representative of the insurer together with copies of any <u>amending</u> endorsements.</p> <p>.1 General Liability Insurance</p> <p>General liability insurance shall be in the name of the <i>Contractor</i>, with the <i>Owner</i> and the <i>Consultant</i> named as <u>Additional</u> insureds, with limits of not less than \$10,000,000.00 inclusive per occurrence for bodily injury, death, and damage to property, including loss of use thereof, for itself and each of its employees, <i>Subcontractors</i> and/or agents. The insurance coverage shall not be less than the insurance required by IBC Form 2100, or its equivalent <u>replacement</u>, provided that IBC Form 2100 shall contain the latest edition of the relevant CCDC endorsement form. To achieve the desired limit, umbrella, or excess liability insurance may be used. All liability coverage shall be maintained for completed operations hazards from the date of <i>Ready-for-Takeover</i>, as set out in the certificate of <i>Ready-for-Takeover</i>, on an ongoing basis for a period of 6 years following <i>Ready-for-Takeover</i>. Where the <i>Contractor</i> maintains a single, blanket policy, the <u>Addition</u> of the <i>Owner</i> and the <i>Consultant</i> is limited to liability arising out of the <i>Project</i> and all operations necessary or incidental thereto. The policy shall be endorsed to provide the <i>Owner</i> with not less than 30 days' notice, in writing, in advance of any cancellation and of change or <u>amendment</u> restricting coverage.</p> <p>.2 Automobile Liability Insurance</p> <p>Automobile liability insurance in respect of licensed vehicles shall limits of not less than \$5,000,000.00 inclusive per occurrence for bodily injury, death and damage to property, covering all licensed vehicles <i>owned</i> or leased by the <i>Contractor</i>, and endorsed to provide the <i>Owner</i> with not less than 30 days' notice, in writing, in advance of any cancellation, change or <u>amendment</u> restricting coverage. Where the policy has been issued pursuant to a government-operated automobile insurance system, the <i>Contractor</i> shall provide the <i>Owner</i> with confirmation of automobile insurance coverage for all automobiles registered in the name of the <i>Contractor</i>.</p> <p>.3 Aircraft and Watercraft Liability Insurance</p> <p>Where determined necessary by the <i>Contractor</i>, acting reasonably, aircraft and watercraft liability insurance will be obtained in accordance with the provisions of paragraph 11.1.3. Aircraft and watercraft liability insurance with respect to owned or non-owned aircraft and watercraft if used directly or indirectly in the performance of the <i>Work</i>, including use of <u>Additional</u> premises, shall be subject to limits of not less than \$2,000,000.00 inclusive per occurrence for bodily injury, death and damage to property, including loss of use thereof and limits of not less than \$2,000,000.00 for aircraft passenger hazard. Such insurance shall be in a form acceptable to the <i>Owner</i>. The policies shall be endorsed to provide the <i>Owner</i> with not less than 30 days' notice, in writing, in advance of cancellation, change or <u>amendment</u> restricting coverage.</p> <p>.4 Property and Boiler and Machinery Insurance</p> <p>(1) Builder's Risk property insurance shall be in the name of the <i>Contractor</i> with the <i>Owner</i> and the <i>Consultant</i> named as <u>Additional</u> insureds. The policy shall</p>
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		<p>insure against all risks of direct physical loss or damage to the property insured which shall include all property included in the <i>Work</i>, whether owned by the <i>Contractor</i> or the owner or owned by others, so long as the property forms part of the <i>Work</i>. The property insured also includes all materials and supplies necessary to complete the work, whether installed in the work temporarily or permanently, in storage on the project site, or in transit to the project site, as well as temporary buildings, scaffolding, falsework forms, hoardings, excavation, site preparation and similar work. The insurance shall be for not less than the sum of the amount of the contract price and the full value of products that are specified to be provided by the owner for incorporation into the work, if applicable, with the deductible of \$10,000.00 payable by the contractor. The insurance shall include the foregoing and, otherwise, shall not be less than the insurance required by IBC Form 4042 or its equivalent <u>replacement</u> provided that the IBC Form 4042 shall include the latest <u>Addition</u> of the relevant CCDC endorsement form. The coverage shall be based on a completed value form and shall be maintained continuously until ten (10) days after the date of the final certificate of payment.</p> <p>(2) Boiler and machinery insurance shall be in the name of the <i>Contractor</i>, with the <i>Owner</i> and the <i>Consultant</i> named as <u>Additional</u> insureds, for not less than the <u>replacement</u> value of the boilers, pressure vessels and other insurable objects forming part of the <i>Work</i>. The insurance provided shall not be less than the insurance provided by the “Comprehensive Boiler and Machinery Form” and shall be maintained continuously from commencement of use or operation of the property insured and until 10 days after the date of the final certificate for payment.</p> <p>(3) The policies shall allow for partial or total use or occupancy of the <i>Work</i>.</p> <p>(4) The policies shall provide that, in the case of a loss or damage, payment shall be made to the <i>Owner</i> and the <i>Contractor</i> as their respective interests may appear. The <i>Contractor</i> shall act on behalf of the <i>Owner</i> for the purpose of adjusting the amount of such loss or damage payment with the insurers. When the extent of the loss or damage is determined, the <i>Contractor</i> shall proceed to restore the <i>Work</i>. Loss or damage shall not affect the rights and obligations of either party under the <i>Contract</i> except that the <i>Contractor</i> shall be entitled to such reasonable extension of the <i>Contract Time</i>, relative to the extent of the loss or damage, as determined by the <i>Owner</i>, in its sole discretion.</p> <p>(5) The <i>Contractor</i> shall be entitled to receive from the <i>Owner</i>, in <u>Addition</u> to the amount due under the <i>Contract</i>, the amount at which the <i>Owner’s</i> interest in restoration of the <i>Work</i> has been appraised, such amount to be paid as the restoration of the <i>Work</i> proceeds and as provided in GC 5.2 – APPLICATIONS FOR PROGRESS PAYMENT and GC 5.3 – PROGRESS PAYMENT. In <u>Addition</u>, the <i>Contractor</i> shall be entitled to receive from the payments made by the insurer the amount of the <i>Contractor’s</i> interest in the restoration of the <i>Work</i>.</p> <p>(6) In the case of loss or damage to the <i>Work</i> arising from the work of other contractors, or the <i>Owner’s</i> own forces, the <i>Owner</i>, in accordance with the <i>Owner’s</i> obligations under paragraph 3.2.2.4 of GC 3.2 – CONSTRUCTION BY OWNER OR OTHER CONTRACTORS, shall pay the <i>Contractor</i> the cost of restoring the <i>Work</i> as the restoration of the <i>Work</i> proceeds and as provided in GC 5.2 – APPLICATIONS FOR PROGRESS PAYMENT and GC 5.3 – PROGRESS PAYMENT.</p> <p>.5 Contractors’ Equipment Insurance</p> <p>“All risks” contractors’ equipment insurance covering construction machinery and equipment used by the <i>Contractor</i> for the performance of the <i>Work</i>, excluding boiler insurance, shall be in a form acceptable to the <i>Owner</i> and shall not allow subrogation claims by the insurer against the <i>Owner</i>. The policies shall be endorsed to provide the <i>Owner</i> with not less than 30 days’ notice, in writing, in</p>
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		<p>advance of cancellation, change or <u>amendment</u> restricting coverage. Subject to satisfactory proof of financial capability by the <i>Contractor</i> for self-insurance of his equipment, the <i>Owner</i> agrees to waive the equipment insurance requirement.</p> <p>11.1.2 The <i>Contractor</i> shall be responsible for deductible amounts under the policies except where such amounts may be excluded from the <i>Contractor's</i> responsibility by the terms of GC 9.1 - PROTECTION OF WORK AND PROPERTY and GC 9.2 - DAMAGES AND MUTUAL RESPONSIBILITY.</p> <p>11.1.3 Where the full insurable value of the <i>Work</i> is substantially less than the <i>Contract Price</i>, the <i>Owner</i> may reduce the amount of insurance required to waive the course of construction insurance requirement.</p> <p>11.1.4 If the <i>Contractor</i> fails to provide or maintain insurance as required by the <i>Contract Documents</i>, then the <i>Owner</i> shall have the right to provide and maintain such insurance and provide evidence of same to the <i>Contractor</i>. The <i>Contractor</i> shall pay the costs thereof to the <i>Owner</i> on demand, or the <i>Owner</i> may deduct the amount that is due or may become due to the <i>Contractor</i>.</p> <p>11.1.5 All required insurance policies shall be with insurers licensed to underwrite insurance in the jurisdiction of the <i>Place of the Work</i>."</p>
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SC52 *NEW* GC 11.2 CONTRACT SECURITY

SC52.1	GC 11.2	<p><u>Add</u> new GC 11.2 – CONTRACT SECURITY as follows:</p> <p>"GC 11.2 CONTRACT SECURITY</p> <p>11.2.1 The <i>Contractor</i> shall, prior to the execution of the <i>Contract</i>, furnish a performance bond and labour and material payment bond which meets the requirements under paragraph 11.2.2.</p> <p>11.2.2 The performance bond and labour and material payment bond shall:</p> <ul style="list-style-type: none"> .1 be issued by a duly licensed surety company, which has been approved by the <i>Owner</i> and is permitted under the <i>Construction Act</i>, .2 be issued by an insurer licensed under the <i>Insurance Act</i> (Ontario) and authorized to transact a business of suretyship in the Province of Ontario; .3 shall be in the form prescribed by the <i>Construction Act</i>, .4 have a coverage limit of at least 50 per cent of the <i>Contract Price</i>, or such other percentage of the <i>Contract Price</i> as stated in the <i>Contract Documents</i>; .5 extends protection to <i>Subcontractors</i>, <i>Suppliers</i>, and any other persons supplying labour or materials to the <i>Project</i>; and .6 shall be maintained in good standing until the fulfillment of the <i>Contract</i>, including all warranty and maintenance periods set out in the <i>Contract Documents</i>.. <p>11.2.3 It is the intention of the parties that the performance bond shall be applicable to all of the <i>Contractor's</i> obligations in the <i>Contract Document</i> and, wherever a performance bond is provided with language which conflicts with this intention, it shall be deemed to be amended to comply. The <i>Contractor</i> represents and warrants to the <i>Owner</i> that it has provided its surety with a copy of the <i>Contract Documents</i> prior to the issuance of such bonds.</p>
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		<p>11.2.4 Without limiting the foregoing in any way, the bonds shall indemnify and hold harmless the <i>Owner</i> for and against costs and expenses (including legal and <i>Consultant</i> services and court costs) arising out of or as a consequence of any default of the <i>Contractor</i> under this <i>Contract</i>.</p> <p>11.2.4 The <i>Contractor</i> shall be responsible for notifying the surety company of any changes made to the <i>Contract</i> during the course of construction.</p> <p>11.2.5 The premiums for bonds required by the <i>Contract Documents</i> shall be included in the <i>Contract Price</i>.</p> <p>11.2.6 Should the <i>Owner</i> require additional bonds by the <i>Contractor</i> or any of his <i>Subcontractors</i>, after the receipt of bids for the <i>Work</i>, the <i>Contract Price</i> shall be increased by all direct costs attributable to providing such bonds. The <i>Contractor</i> shall promptly provide the <i>Owner</i>, through the <i>Consultant</i>, with any such bonds that may be required.”</p>
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PART 12 OWNER TAKEOVER

SC53 GC 12.1 READY-FOR-TAKEOVER

SC53.1	12.1.1	<p><u>Delete</u> GC 12.1.1 in its entirety and <u>replace</u> it with the following:</p> <p>“12.1.1 <i>Ready-for-Takeover</i> shall be achieved when all of the following has occurred, as verified and approved by the <i>Owner</i>:</p> <ol style="list-style-type: none"> .1 <i>Substantial Performance of the Work</i> has been achieved, as certified by the <i>Consultant</i>; .2 a permit for occupancy of the <i>Place of the Work</i> has been obtained from the authorities having jurisdiction; .3 the <i>Work</i> to be performed under the <i>Contract</i> has satisfied the requirements for deemed completion in accordance with Section 2(3) of the <i>Construction Act</i>; .4 final cleaning and waste removal, as required by the <i>Contract Documents</i>; .5 the <i>Contractor</i> has delivered to the <i>Consultant</i> and the <i>Owner</i> all inspection certificates from authorities having jurisdiction with respect to any component of the <i>Work</i> which has been completed; .6 subject only to GC 12.1.2, the entire <i>Work</i> has been completed to the requirements of the <i>Contract Documents</i>, including completion of all items on the punch list prepared at the time of <i>Substantial Performance of the Work</i> and the <i>Work</i> is being used for its intended purpose, and is so certified by the <i>Consultant</i>; .7 subject only to GC 12.1.2, the <i>Contractor</i> has submitted to the <i>Owner</i> and the <i>Consultant</i> in a collated and organized matter, all <i>Close-Out Documentation</i> and any other materials or documentation required by the <i>Contract Documents</i>; .8 subject only to GC 12.1.2, all <i>Products</i>, systems and components of the <i>Project</i> have been commissioned and certified for operation and accepted by the <i>Owner</i> and <i>Consultant</i>, and
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		9 subject only to GC 12.1.2, the <i>Contractor</i> has submitted to the <i>Owner</i> and the <i>Consultant</i> full and complete as-built drawings and <i>Specifications</i> revised by the <i>Contractor</i> to reflect the as-built state of the <i>Work</i> , clearly showing changes to the <i>Drawings</i> and <i>Specifications</i> from the original <i>Contract Documents</i> , all of which have been approved by the <i>Owner</i> acting reasonably.”
SC53.2	12.1.2	<u>Delete</u> GC 12.1.2 in its entirety and <u>replace</u> it with the following: “12.1.2 The <i>Owner</i> may, in its sole, absolute, and unfettered discretion, waive compliance with a requirement, or a part thereof, for achieving <i>Ready-for-Takeover</i> set out in GC 12.1.1.6 to 12.1.1.9 (inclusive). Where the <i>Owner</i> exercises the discretion afforded under this GC 12.1.2, the <i>Contractor</i> shall be required to comply with GC 5.5.1.2 as part of its application for final payment and the <i>Owner</i> and the <i>Contractor</i> , in consultation with the <i>Consultant</i> , shall establish a reasonable date for completing the <i>Work</i> .”
SC53.3	12.1.3	<u>Delete</u> GC 12.1.3 in its entirety and <u>replace</u> it with the following: “12.1.3 When the <i>Contractor</i> considers the <i>Work Ready-for-Takeover</i> , it shall submit a written application to the <i>Owner</i> and the <i>Consultant</i> for review.”
SC53.4	12.1.4	In GC 12.1.4, <u>delete</u> the words “list and” from the second line.
SC53.5	12.1.5	<u>Delete</u> GC 12.1.5 in its entirety and <u>replace</u> it with the following: “12.1.5 Following the confirmation of the date of <i>Ready-for-Takeover</i> by the <i>Consultant</i> and as confirmed by the <i>Owner</i> , the <i>Contractor</i> may submit a final application for payment in accordance with GC 5.5 – FINAL PAYMENT.”
SC53.6	12.1.6	<u>Delete</u> GC 12.1.6 in its entirety.

SC54 GC 12.2 EARLY OCCUPANCY

SC54.1	GC 12.2	<u>Delete</u> GC 12.2 – EARLY OCCUPANCY BY THE OWNER in its entirety, including all subparagraphs thereunder and <u>replace</u> it with the following: “12.2.1 The <i>Owner</i> reserves the right to take possession of and use for any intended purpose any portion or all of the undelivered portion of the Project even though the <i>Work</i> may not have reached Substantial Performance of the <i>Work</i> , provided that such taking possession and use will not unduly interfere, in any material way, with the progress of the <i>Work</i> . The taking of possession or use of any such portion of the Project shall not be deemed to be the <i>Owner</i> ’s acknowledgement or acceptance of the <i>Work</i> or Project nor shall it relieve the <i>Contractor</i> of any of its obligations under the Contract. 12.2.2 Whether the Project contemplates <i>Work</i> by way of renovations in buildings which will be in use or be occupied during the course of the <i>Work</i> or where the Project involves <i>Work</i> that is adjacent to a structure which is in use or is occupied, the <i>Contractor</i> , without in any way limiting its responsibilities under this Contract, shall take all reasonable steps to avoid interference with fire exits, building access and egress, continuity of electric power and all other utilities, to suppress dust and noise and to avoid conditions likely to propagate mould or fungus of any kind and all other steps reasonably necessary to promote and maintain the safety and comfort of the users and occupants of such structures or adjacent structures.”
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SC55 GC 12.3 WARRANTY

SC55.1	12.3.2	<u>Delete</u> from the first line of paragraph 12.3.2 the word “The” and <u>replace</u> it with the words “Subject to GC 1.1.3, the...”
SC55.2	12.3.7 to 12.3.12	<p><u>Add</u> new paragraphs 12.3.7 to 12.3.12 as follows:</p> <p>“12.3.7 Where required by the <i>Contract Documents</i>, the <i>Contractor</i> shall provide a maintenance bond as security for the performance of the <i>Contractor’s</i> obligations as set out in GC 12.3 WARRANTY.</p> <p>12.3.8 The <i>Contractor</i> shall provide fully and properly completed and signed copies of all warranties and guarantees required by the <i>Contract Documents</i>, containing:</p> <ul style="list-style-type: none"> .1 the proper name of the <i>Owner</i>; .2 the proper name and address of the <i>Project</i>; .3 the date the warranty commences, which shall be at the “<i>Ready-for-Takeover</i>” unless otherwise agreed upon by the <i>Consultant</i> in writing. .4 a clear definition of what is being warranted and/or guaranteed as required by the <i>Contract Documents</i>; and .5 the signature and seal (if required by the governing law of the <i>Contract</i>) of the company issuing the warranty, countersigned by the <i>Contractor</i>. <p>12.3.9 Should any <i>Work</i> be repaired or replaced during the time period for which it is covered by the specified warranty, a new warranty shall be provided under the same conditions and for the same period as specified herein before. The new warranty shall commence at the completion of the repair or replacement.</p> <p>12.3.10 The <i>Contractor</i> shall ensure that its <i>Subcontractors</i> are bound to the requirements of GC 12.3 – WARRANTY for the <i>Subcontractor’s</i> portion of the <i>Work</i>.</p> <p>12.3.11 The <i>Contractor</i> shall ensure that all warranties, guarantees or other obligations for <i>Work</i>, services or <i>Products</i> performed or supplied by any <i>Subcontractor</i>, <i>Supplier</i> or other person in connection with the <i>Work</i> are obtained and available for the direct benefit of the <i>Owner</i>. In the alternative, the <i>Contractor</i> shall assign to the <i>Owner</i> all warranties, guarantees or other obligations for <i>Work</i>, services or <i>Products</i> performed or supplied by any <i>Subcontractor</i>, <i>Supplier</i> or other person in connection with the <i>Work</i> and such assignment shall be with the consent of the assigning party, where required by law, or by the terms of that party’s contract. Such assignment shall be in addition to, and shall in no way limit, the warranty rights of the <i>Owner</i> under the <i>Contract Documents</i>.</p> <p>12.3.12 The <i>Contractor</i> shall commence or correct any deficiency within 2 <i>Working Days</i> after receiving a <i>Notice in Writing</i> from the <i>Owner</i> or the <i>Consultant</i>, and shall complete the <i>Work</i> as expeditiously as possible, except in the case where the deficiency prevents maintaining security or where basic systems essential to the ongoing business of the <i>Owner</i> and/or its tenants cannot be maintained operational as designed. In those circumstances all necessary corrections and/or installations of temporary replacements shall be carried out immediately as an emergency service. Should the <i>Contractor</i> fail to provide this emergency service within 8 hours of a request being made during the normal business hours of the <i>Contractor</i>, the <i>Owner</i> is authorized, notwithstanding GC 3.1, to carry out all necessary repairs or replacements at the <i>Contractor’s</i> expense.”</p>



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PART 13 INDEMNIFICATION AND WAIVER

SC56 GC 13.1 INDEMNIFICATION

SC56.1	GC 13.1	<p><u>Delete</u> GC 13.1 – INDEMNIFICATION in its entirety and <u>replace</u> it with the following:</p> <p>“13.1.1 The <i>Contractor</i> shall indemnify and hold harmless the <i>Owner</i>, its parent, subsidiaries and affiliates, their respective partners, trustees, officers, directors, agents and employees and the <i>Consultant</i> from and against any and all claims, liabilities, expenses, demands, losses, damages, actions, costs, suits, or proceedings (hereinafter called “claims”), whether in respect of claims suffered by the <i>Owner</i> or in respect of claims by third parties, that directly or indirectly arise out of, or are attributable to, the acts or omissions of the <i>Contractor</i>, its employees, agents, <i>Subcontractors</i>, <i>Suppliers</i> or any other persons for whom it is in law responsible (including, without limitation, claims that directly or indirectly arise out of, or are attributable to, loss of use or damage to the <i>Work</i>, the <i>Owner</i>’s property or equipment, the <i>Contractor</i>’s property or equipment or equipment or property adjacent to the <i>Place of the Work</i> or death or injury to the <i>Contractor</i>’s personnel).</p> <p>13.1.2 The <i>Owner</i> shall indemnify and hold the <i>Contractor</i>, its agents and employees harmless from and against claims, demands, losses, costs, damages, actions, suits or proceedings arising out of the <i>Contractor</i>’s performance of the <i>Contract</i> which are attributable to a lack of or defect in title or an alleged lack of or defect in title to the <i>Place of the Work</i>.</p> <p>13.1.3 The provisions of GC 13.1 - INDEMNIFICATION shall survive the termination of the <i>Contract</i>, howsoever caused and no payment or partial payment, no issuance of a final certificate of payment and no occupancy in whole or in part of the <i>Work</i> shall constitute a waiver or release of any of the provisions of GC 13.1</p> <p>13.1.4 Notwithstanding the provisions of GC1.1 - CONTRACT DOCUMENTS, GC 1.1.6, GC13.1 - INDEMNIFICATION shall govern over the provisions of GC 1.3.1 of GC1.3 – RIGHTS AND REMEDIES.”</p>
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SC57 GC 13.2 WAIVER OF CLAIMS

SC57.13	13.2.1	<p>In paragraph 13.2.1 in the third line after the word “limitation” <u>add</u> the words “claims for delay pursuant to GC 6.5 DELAYS”</p> <p>-and-</p> <p><u>add</u> the words “(collectively “Claims”)” after “<i>Ready-for-Takeover</i>” in the fourth line.</p>
SC57.14	13.2.1.1	<p>In subparagraph 13.2.1.1, in each instance change the word “claims” to “Claims” and change the word “claim” to “Claim”.</p>
SC57.15	13.2.1.2	<p>In subparagraph 13.2.1.2 change the word “claims” to “Claims”.</p>
SC57.16	13.2.1.3	<p><u>Delete</u> subparagraph 13.2.1.3 in its entirety.</p>
SC57.17	13.2.1.4	<p>In paragraph 13.2.1.4 change the word “claims” to “Claims”.</p>
SC57.18	13.2.2.1	<p>In paragraph 13.2.2.1 <u>delete</u> the words “in paragraphs 13.2.1.2 and 13.2.1.3” and <u>replace</u> them with “in paragraph 13.2.1.2”</p> <p>-and-</p> <p>change the word “claims” to “Claims” in both instances and change the word “claim” to “Claim”.</p>



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SC57.19	13.2.3	<u>Delete</u> paragraph 13.2.3 in its entirety.
SC57.20	13.2.4	<u>Delete</u> paragraph 13.2.4 in its entirety.
SC57.21	13.2.5	<u>Delete</u> paragraph 13.2.5 in its entirety.
SC57.22	13.2.6	In paragraph 13.2.6 change the word “claim” to “Claim” in all instances in the paragraph.
SC57.23	13.2.8	In paragraph 13.2.8 change “The party” to “The <i>Contractor</i> ” -and- change the word “claim” to “Claim” in all instances in the paragraph.
SC57.24	13.2.9	In paragraph 13.2.9 <u>delete</u> the words “under paragraphs 13.2.1 or 13.2.3” and <u>replace</u> them with “under paragraph 13.2.1” -and- change both instances of the words “the party” to “the <i>Contractor</i> ”. Change the word “claim” to “Claim” in all instances in the paragraph.

SC58 *NEW* PART 14 OTHER PROVISIONS

SC58.1	14.1	<p><u>Add</u> new PART 14 – OTHER PROVISIONS as follows:</p> <p>“PART 14 OTHER PROVISIONS</p> <p>GC 14.1 OWNERSHIP OF MATERIALS</p> <p>14.1.1 Unless otherwise specified, all materials existing at the <i>Place of the Work</i> at the time of execution of the <i>Contract</i> shall remain the property of the <i>Owner</i>. All <i>Work</i> and <i>Products</i> delivered to the <i>Place of the Work</i> by the <i>Contractor</i> shall be the property of the <i>Owner</i>. The <i>Contractor</i> shall remove all surplus or rejected materials as its property when notified in writing to do so by the <i>Consultant</i>.”</p>
SC58.2	14.2	<p><u>Add</u> new GC 14.2 – CONSTRUCTION LIENS as follows:</p> <p>“GC 14.2 LIENS</p> <p>14.2.1 Notwithstanding any other provision in the <i>Contract</i>, the <i>Consultant</i> shall not be obligated to issue a certificate, and the <i>Owner</i> shall not be obligated to make payment, subject to the <i>Owner’s</i> requirement to issue a <i>Notice of Non-Payment</i> (Form 1.1) to the <i>Contractor</i>, if at the time such certificate or payment was otherwise due:</p> <p style="padding-left: 40px;">.1 a claim for lien has been registered against the <i>Project</i> lands by a <i>Subcontractor</i> or a <i>Supplier</i> that has not been vacated or discharged by the <i>Contractor</i> in accordance with the requirements of this <i>Contract</i>, or</p> <p style="padding-left: 40px;">.2 if the <i>Owner</i> or a mortgagee of the <i>Project</i> lands has received a written notice of a lien that has not been resolved by the <i>Contractor</i> through the posting of security or otherwise.</p> <p>14.2.2 In the event a construction lien arising from the performance of the <i>Work</i> is registered or preserved against the <i>Project</i> lands by a <i>Subcontractor</i> or a <i>Supplier</i>, or a written notice of a lien is given or a construction lien action is commenced</p>



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		<p>against the <i>Owner</i> by a <i>Subcontractor</i> or a <i>Supplier</i>, then the <i>Contractor</i> shall, at its own expense:</p> <ol style="list-style-type: none"> .1 within 10 calendar days of registration of the construction lien, vacate or discharge the lien from title to the premises (i.e. the <i>Place of the Work</i>). If the lien is merely vacated, the <i>Contractor</i> shall, if requested, undertake the <i>Owner's</i> defence of any subsequent action commenced in respect of the lien, at the <i>Contractor's</i> sole expense; .2 within 10 calendar days of receiving notice of a written notice of a lien, post security with the Ontario Superior Court of Justice so that the written notice of a lien no longer binds the parties upon whom it was served; and .3 satisfy all judgments and pay all costs arising from such construction liens and actions and fully indemnify the <i>Owner</i> against all costs and expenses arising from same, including legal costs on a full indemnity basis. <p>14.2.3 In the event that the <i>Contractor</i> fails or refuses to comply with its obligations pursuant to paragraph 14.2.2, the <i>Owner</i> shall, at its option, be entitled to take all steps necessary to address any such construction liens including, without limitation and in addition to the <i>Owner's</i> rights under paragraph 13.2.4, the posting of security with the Ontario Superior Court of Justice to vacate the claim for lien from title to the <i>Project</i> lands, and in so doing will be entitled to a full indemnity from the <i>Contractor</i> for all legal fees, security, disbursements and other costs incurred and will be entitled to deduct same from amounts otherwise owing to the <i>Contractor</i>.</p> <p>14.2.4 In the event that any <i>Subcontractor</i> or <i>Supplier</i> registers any claim for lien with respect to all or part of the <i>Place of Work</i>, the <i>Owner</i> shall have the right to withhold, in addition to the statutory holdback, the full amount of said claim for lien plus either: (a) \$250,000 if the claim for lien is in excess of \$1,000,000 or (b) 25% of the value of the claim for lien and to bring a motion to vacate the registration of said claim for lien and any associated certificate of action in respect of that lien, in accordance with Section 44 of the <i>Act</i>, by paying into court as security the amount withheld.</p> <p>14.2.5 Nothing in this GC 14.2 serves to preclude the <i>Contractor</i> from preserving and perfecting its lien in the event of non-payment by the <i>Owner</i>.”</p>
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APPENDIX 1
to the Supplementary Conditions

Project-specific requirements for a “*Proper Invoice*”

To satisfy the requirements for a *Proper Invoice*, the following criteria, as may be applicable in each case, must be included with the *Contractor's* application for payment:

- .1 the written bill or request for payment must be in writing;
- .2 the *Contractor's* name and current address;
- .3 the *Contractor's* HST registration number;
- .4 the date the application for payment was prepared by the *Contractor*;
- .5 the period of time in which the services or materials were supplied to the *Owner*;
- .6 the purchase order number provided by the *Owner*;
- .7 reference to the provisions of the *Contract* under which payment is being sought (e.g. GC 5.3 –PAYMENTS for progress payments, GC 5.4 – SUBSTANTIAL PERFORMANCE OF THE WORK AND PAYMENT OF HOLDBACK GC 5.5 – FINAL PAYMENT for final payment, etc.);
- .8 a description, including quantities where appropriate, of the services or materials, or a portion thereof, that were supplied and form the basis of the *Contractor's* request for payment;
- .9 the amount the *Contractor* is requesting to be paid by the *Owner*, set out in a statement based on the schedule of values approved under GC 5.2.4, separating out any statutory or other holdbacks, set-offs and HST;
- .10 a sworn Statutory Declaration in the form CCDC 9A-2018, only for second and subsequent progress payments;
- .11 a current Workplace Safety Insurance Board clearance certificate;
- .12 a pre-approved schedule of values, supplied by the *Contractor*, for Divisions 1 through 14 of the *Specifications* (or equivalent Construction Specifications Institute Masterformat) of the *Work*, aggregating the total amount of the *Contract Price*, including all supporting invoicing;
- .13 a separate pre-approved schedule of values, supplied by each *Subcontractor*, for each of Division 15, 16, and 17 of the *Specifications* (or equivalent Construction Specifications Institute Masterformat) of the *Work*, aggregating the total amount of the *Contract Price*, including all supporting invoicing;
- .14 invoices and other supporting documentation for all claims against the cash allowance;
- .15 a current, acceptable, and up to date *Construction Schedule Update*;
- .16 if requested by the *Owner*, a current and valid certificate(s) of insurance as required under GC 11.1 – INSURANCE;
- .17 the name, title, telephone number and mailing address of the person at the place of business of the *Contractor* to whom payment is to be directed;
- .18 a current, up to date, and approved *Shop Drawing* log;
- .19 in the case of the *Contractor's* application for final payment, in addition to the foregoing requirements (as applicable):
 - (a) any *Close-Out Documentation*, together with complete and final as-built drawings;



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- (b) the *Contractor's* written request for release of the deficiency holdback, including a statement that no written notices of lien have been received by it;
- (c) the *Contractor's* written certification that there are no outstanding claims, pending claims or future claims from the *Contractor* or their *Subcontractors* or *Suppliers*; and
- (d) sufficient evidence of the *Contractor's* compliance with GC 3.11.



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APPENDIX 2
to the Supplementary Conditions

SPECIAL SUPPLEMENTARY CONDITIONS

The Standard Construction Document CCDC 2 2020 for a Stipulated Price Contract, English version, consisting of the Agreement Between *Owner* and Contractor, Definitions and General Conditions of the Stipulated Price Contract, Parts 1 to 12 inclusive, governing same, together with the changes with the new Construction Act is hereby made part of these Contract Documents, with the following amendments, additions and modifications:

SC59 ARTICLE A-10 TIME OF THE ESSENCE

SC59.1	Article A-10	<p><u>Delete</u> the header for Article A-10 being “ARTICLE A-10 TIME OF THE ESSENCE” and <u>replace</u> it with the following:</p> <p>“ARTICLE A-10 TIME OF THE ESSENCE/LIQUIDATED DAMAGES”.</p>
SC59.2	Articles 10.3 to 10.7	<p><u>Insert</u> the following new Articles 10.3 to 10.7 as follows:</p> <p>10.3 The <i>Contractor</i> further acknowledges that it understands that the <i>Owner</i> is responsible and must account to the students and staff of Waterloo Catholic District School Board. A failure by the <i>Contractor</i> to attain <i>Ready-for-Takeover</i> within the time prescribed in the Contract could result in damages to the <i>Owner</i> and to the students and staff of the Waterloo Catholic District School Board, which would be difficult or impractical to quantify but would nevertheless have a significant negative impact on the <i>Owner</i> and its ability to provide services the <i>Owner</i> is obliged to provide to the students and staff of the Waterloo Catholic District School Board.</p> <p>10.4 Given the significance of the requirement for the Contractor to achieve <i>Ready-for-Takeover</i>, as described in Article A-10.3, without limiting the <i>Owner’s</i> entitlement to any additional or other damages, if the <i>Contractor</i> fails to achieve <i>Ready-for-Takeover</i> by the time prescribed in Article A-1, the <i>Owner</i> will incur substantial damages and the extent of such damages shall be incapable or very difficult to accurately measure. Nonetheless, the parties acknowledge that as of the effective date of this <i>Contract</i>, the amount of liquidated damages set forth in Article A-10.5 below represents a good faith estimate on the part of the parties as to the actual potential damages that the <i>Owner</i> would suffer as a result of late completion of the <i>Project</i>. The amount of such liquidated damages does not include any penalty. Notwithstanding the foregoing, the <i>Owner</i> shall be entitled to the greater of (i) the liquidated damages as calculated pursuant to Article A-10.5, or (ii) in the event that the <i>Contractor</i> claims that this liquidated damages provision is invalid or unenforceable and the <i>Contractor</i> prevails on such a defence, the damages arising from the delay suffered by the <i>Owner</i> including, without limitation, consequential, special, incidental, and indirect damages, costs and expenses incurred or suffered by the <i>Owner</i>.</p> <p>10.5 The <i>Contractor</i> shall pay to the <i>Owner</i> (or have deducted from <i>Contract</i> payments) liquidated damages of \$ _____ [NTD: Include per diem rate] for each calendar day of delay beyond the prescribed date for <i>Ready-for-Takeover</i>, until <i>Ready-for-Takeover</i> is achieved and certified pursuant to the terms of the <i>Contract</i>. Liquidated damages will be assessed as incurred and reflected as deductions from amounts that may be due under any applications for payment pending at the time that such liquidated damages are assessed.</p> <p>10.6 All liquidated damages that have not been deducted from payments prior to final payment shall be deducted from the final payment to be made by the <i>Owner</i> to the <i>Contractor</i> pursuant to GC 5.5 FINAL PAYMENT, and any amount of liquidated</p>



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		<p>damages in excess of the final payment amount, shall be paid by the <i>Contractor</i> to the <i>Owner</i>, within 30 calendar days following a written demand by the <i>Owner</i> for such payment.</p> <p>10.7 The liquidated damages payable under this Article A-10 are in addition to and without prejudice to any other remedy, action or any other alternative claim that may be available to the <i>Owner</i>.”</p>
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END OF AMENDMENTS TO CCDC 2 - 2020



MTE Consultants

520 Bingham Centre Drive, Kitchener, Ontario N2B 3X9

May 14, 2025

MTE File No.: C61104_003

Denise L. Francis
Senior Health & Safety Partner
Waterloo Catholic District School Board
35 Weber Street West, Unit A, P.O. Box 9116
Kitchener, Ontario N2G 4G2
Email: denise.francis@wcdsb.ca

**RE: 2025 Asbestos Audit Update
St. Anne Catholic Elementary School
127 Elgin Street North, Cambridge, Ontario**

1.0 INTRODUCTION

MTE Consultants Inc. (MTE) was authorized by the Waterloo Catholic District School Board (WCDSB) to conduct the 2025 asbestos inspection of the subject building.

The purpose of the assignment was to re-assess and document the location, type, and condition of identified asbestos-containing materials (ACM) present within the building and make appropriate recommendations for management, abatement or remedial activities, as required.

The audit was conducted in accordance with the Ontario Ministry of Labour, *Regulation 278/05- Designated Substance-Asbestos on Construction Projects and in Buildings and Repair Operations* (O. Reg. 278/05). This report shall replace previous audit reports.

2.0 SCOPE OF WORK

The Scope of Work for this assessment was completed by MTE and included the following activities:

- Review of existing and historical reports and documentation pertaining to ACM within the building;
- Visual inspection to assess the condition of previously identified ACM, excluding portable structures;
- Collection of building material samples that are suspect ACM, as applicable;
- Submission of samples to an accredited laboratory, as applicable;
- Photographic log of damaged materials; and
- Preparation of this report with findings and recommendations.

3.0 METHODOLOGY AND ASSESSMENT CRITERIA

This inspection was conducted by visual and laboratory identification methods for the assessment of ACM and their corresponding location, use, condition, and friability. The areas outlined in Section 2.0 were inspected limited to building components, materials and service

connections. Notwithstanding that reasonable attempts were made to identify all ACMs, the possibility of concealed material exists and may not become visible until substantial demolition has occurred and therefore are currently undocumented and did not include the following.

- Locations that may be hazardous to the surveyor, such as electrical equipment;
- Where invasive inspection could cause consequential damage to the property or impair the integrity of the equipment, such as roof systems, underground services or components of mechanical equipment;
- Locations concealed by building finishes that require substantial demolition or removal for access or determination of quantities;
- Materials that are present in such an inconsistent fashion that without complete removal of finishes, the extent cannot be determined;
- Non-permanent items or personal contents, furnishings; and
- Settled dust or airborne agents unless otherwise stated.

3.1 Condition of ACM

During the audit process the general condition of ACMs were observed and noted. Materials which are damaged can pose an increased exposure risk to workers, building occupants and the public. While assessing damage can be subjective, abatement items were grouped into two categories to aid in remedial prioritization:

Monitor Annually

These are items which display minor isolated damage; however, do not pose an immediate risk to workers from exposure to asbestos fibres due to the current condition of the material and/or location. No remediation is required at this time; however, these items should be monitored on a yearly basis for evidence of continued degradation. Should the condition of the material change an evaluation should be completed by a competent person to determine remedial action.

Abatement Action Required

These are items which display damage and may pose potential risk to workers from exposure to asbestos fibres due to the physical condition and/or location of the material. Clean-up, repair or removal of these materials is required as soon as reasonably possible.

4.0 FINDINGS

An inspection of building was conducted by MTE on February 24, 2025. The one-storey school building was constructed in 1965 with additions in 1999 and 2016 The inspection did not include areas of post 1999 new construction or renovation (where all building finishes have been removed and replaced).

The summary of identified ACM is provided in Table 1 of **Appendix A** and associated Figures are provided in **Appendix B**. These together provide a current summary of the ACM identified throughout the building.

The bulk asbestos sample location and analytical summary is provided in Table 2 of **Appendix A**.

4.1 Analytical Results

During this inspection, no samples were collected.

4.2 Removed ACM

No ACM has been removed since the previous audit.

4.3 Discovery of Additional ACM

No additional ACM or suspect ACM was identified.

4.4 Damaged ACM

At the time of the audit, all ACM at the building was noted to be in good condition and no abatement action is required at this time.

5.0 CONCLUSIONS AND RECOMMENDATIONS

A detailed summary of recommended actions is provided in **Appendix A**.

5.1 Remedial

At the time of the audit, all ACM at the building was noted to be in good condition and no abatement action is required at this time.

All asbestos work must be conducted by contractors who are trained and experienced in the type of asbestos operations required, and should be overseen by a qualified third party Health, Safety and Environmental professional. In order to conduct Type 3 asbestos operations, contractors must be certified as Asbestos Abatement Workers AAW (Trade code 253W) and Asbestos Abatement Supervisors AAS (Trade code 253S) by The Ministry of Training, Colleges and Universities (Ministry of Advanced Education and Skills Development) as prescribed by Section 20 of O. Reg. 278/05.

5.2 Long Term Management

This audit was conducted for the long term management of ACM within the building. If any construction, renovation, alteration, or maintenance activities are required or planned, additional inspections are required. A Designated Substance Assessment is required prior to completing any demolition or renovation activities at a facility as outlined in the Section 30 OHSA.

ACM may also be present in concealed locations. If any construction, renovation, alteration, or maintenance activities are required or planned, invasive inspections of concealed locations for potential ACM must be performed prior to such activities. Should any suspect ACM be discovered, work should cease and the materials should not be disturbed. Suspect ACM must be treated as asbestos-containing or sampled and proven to not contain asbestos. Any activities that require disturbance of ACM must be performed in accordance with O. Reg. 278/05.

There are no requirements under current legislation to remove ACM from a building simply because it is present. However, O. Reg. 278/05 requires that an Asbestos Management Program be implemented and maintained by the owner/employer where ACM is identified or suspected present.

6.0 LIMITATIONS

Services performed by **MTE Consultants Inc.** (MTE) were conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the Environmental Engineering & Consulting profession. No other representation expressed or implied as to the accuracy of the information, conclusions or recommendations is included or intended in this report.

This report was completed for the sole use of MTE and The Client. It was completed in accordance with the approved Scope of Work referred to in this report. As such, this report may not deal with all issues potentially applicable to the site and may omit issues which are or may be of interest to the reader. MTE makes no representation that the present report has dealt with all important environmental features, except as provided in the Scope of Work. All findings and conclusions presented in this report are based on site conditions as they existed during the time period of the investigation. This report is not intended to be exhaustive in scope or to imply a risk-free facility.

Any use which a third party makes of this report, or any reliance on, or decisions to be made based upon it, are the responsibility of such third parties. MTE accepts no responsibility for liabilities incurred by or damages, if any, suffered by any third party as a result of decisions made or actions taken, based upon this report. Others with interest in the site should undertake their own investigations and studies to determine how or if the condition affects them or their plans.

It should be recognized that the passage of time may affect the views, conclusions and recommendations (if any) provided in this report because environmental conditions of a property can change. Should additional or new information become available, MTE recommends that it be brought to our attention in order that we may reassess the contents of this report.

If you have any further questions, please do not hesitate to call.

Yours Truly,

MTE Consultants Inc.

Zack Hopkins, B.E.S.
Technologist, Indoor Environments
519-743-6500
zhopkins@mte85.com

Paul Semeniuk, B.E.S., C.E.T.
Manager, Indoor Environments
519-743-6500
psemeniuk@mte85.com

ZJH:smk
Attach.

[https://mte85.sharepoint.com/sites/61104_003/Shared Documents/Reports/St Anne CES \(C\)/61104_003_2025-05-14_itr rpt_Asbestos Audit Update_St Anne \(Cambridge\) CES.docx](https://mte85.sharepoint.com/sites/61104_003/Shared Documents/Reports/St Anne CES (C)/61104_003_2025-05-14_itr rpt_Asbestos Audit Update_St Anne (Cambridge) CES.docx)

Appendix A

Tables

Table 1 - Summary of Asbestos-Containing Material and Recommended Actions

St. Anne Catholic Elementary School (Cambridge)





Material	Location	Material Description	Approximate Quantity	Photograph	Management Requirements If No Impacts to Material	Recommended Actions If Material Will Be Or Likely Be Impacted By Maintenance, Renovation, Construction or Demolition Activities
Asbestos Friable	201, 225 (Additional Fittings Suspected in Pipe Shaft)	Insulation on Pipe Fittings	3	-	In place management in accordance with O. Reg. 278/05	Removal in accordance with O. Reg. 278/05 as a Type 2 Glove Bag Operation
Asbestos Non-Friable	227	12"x12" White with Grey Fleck Vinyl Floor Tiles	7.5 m ²		In place management in accordance with O. Reg. 278/05	Removal in accordance with O. Reg. 278/05 as a Type 1 Operation
Asbestos Non-Friable	237 Stairwell	9"x9" White with Grey Streaks Vinyl Floor Tiles and Associated Mastic	< 5 m ²		In place management in accordance with O. Reg. 278/05	Removal in accordance with O. Reg. 278/05 as a Type 1 Operation
Asbestos Non-Friable	233/237 Stairwell	9"x9" White with Grey Streaks Vinyl Floor Tiles and Associated Mastic	< 5 m ²		In place management in accordance with O. Reg. 278/05	Removal in accordance with O. Reg. 278/05 as a Type 1 Operation
Asbestos Non-Friable	229	Asbestos Cement (Transite) Overhang	2 m ²		In place management in accordance with O. Reg. 278/05	Removal in accordance with O. Reg. 278/05 as a Type 1 Operation

Table 1 - Summary of Asbestos-Containing Material and Recommended Actions

St. Anne Catholic Elementary School (Cambridge)



Material	Location	Material Description	Approximate Quantity	Photograph	Management Requirements If No Impacts to Material	Recommended Actions If Material Will Be Or Likely Be Impacted By Maintenance, Renovation, Construction or Demolition Activities
Asbestos Non-Friable	Exterior - Original Building	White Window Sealant	-		In place management in accordance with O. Reg. 278/05	Removal in accordance with O. Reg. 278/05 as a Type 1 Operation
Suspect Asbestos Non-Friable	236	Duct Expansion Joints	2		In place management in accordance with O. Reg. 278/05	Sample prior to maintenance/renovations/ construction/demolition activities and if confirmed ACM, removal in accordance with O. Reg. 278/05
Suspect Asbestos Non-Friable	Exterior of Building	Roofing materials (Paper/Felts/Mastics/Sealants)	-	-	In place management in accordance with O. Reg. 278/05	Sample prior to maintenance/renovations/ construction/demolition activities and if confirmed ACM, removal in accordance with O. Reg. 278/05
Suspect Asbestos Non-Friable	Exterior/Interior of Building	Exterior/Interior Sealants in Windows/Doors	-	-	In place management in accordance with O. Reg. 278/05	Sample prior to maintenance/renovations/ construction/demolition activities and if confirmed ACM, removal in accordance with O. Reg. 278/05
Suspect Asbestos Non-Friable	Exterior of Building	Brick Mortar	-	-	In place management in accordance with O. Reg. 278/05	Sample prior to maintenance/renovations/ construction/demolition activities and if confirmed ACM, removal in accordance with O. Reg. 278/05
Potentially Concealed Asbestos	Interior of Building	Floor Mastics and Leveling Compounds	-	-	In place management in accordance with O. Reg. 278/05	Invasive sampling prior to maintenance/renovations/construction/demolition activities, if sampling confirms as ACM, removal in accordance with O. Reg. 278/05
Potentially Concealed Asbestos	Electrical Wiring Throughout Interior of Building	Jacketing on Electrical Wiring	-	-	In place management in accordance with O. Reg. 278/05	Invasive inspection prior to maintenance/renovations/construction/demolition activities, if present and sampling confirms as ACM, removal in accordance with O. Reg. 278/05
Potentially Concealed Asbestos	Doors Throughout Building	Door Core Insulation	-	-	In place management in accordance with O. Reg. 278/05	Invasive inspection prior to maintenance/renovations/construction/demolition activities, if present and sampling confirms as ACM, removal in accordance with O. Reg. 278/05
Potentially Concealed Asbestos	Wall Cavities, Attic Spaces	Vermiculite Loose-Fill Insulation	-	-	In place management in accordance with O. Reg. 278/05	Invasive inspection prior to maintenance/renovations/construction/demolition activities, if present and sampling confirms as ACM, removal in accordance with O. Reg. 278/05
Potentially Concealed Asbestos	Dome Light Fixtures	Heat Shields	-	-	In place management in accordance with O. Reg. 278/05	Invasive inspection prior to maintenance/renovations/construction/demolition activities, if present and sampling confirms as ACM, removal in accordance with O. Reg. 278/05

Table 1 - Summary of Asbestos-Containing Material and Recommended Actions

St. Anne Catholic Elementary School (Cambridge)

Material	Location	Material Description	Approximate Quantity	Photograph	Management Requirements If No Impacts to Material	Recommended Actions If Material Will Be Or Likely Be Impacted By Maintenance, Renovation, Construction or Demolition Activities
Potentially Concealed Asbestos	Toilet Fixtures	Pipe Gasket/Flange at Floor Connection	-	-	In place management in accordance with O. Reg. 278/05	Invasive inspection prior to maintenance/renovations/construction/demolition activities, if present and sampling confirms as ACM, removal in accordance with O. Reg. 278/05
Potentially Concealed Asbestos	Concealed by Wall/Ceiling/Exterior Finishes	Asbestos Cement (Transite) Sheets	-	-	In place management in accordance with O. Reg. 278/05	Invasive inspection prior to maintenance/renovations/construction/demolition activities, if present and sampling confirms as ACM, removal in accordance with O. Reg. 278/05
Potentially Concealed Asbestos	Underground Piping Systems	Asbestos Cement (Transite) Pipe	-	-	In place management in accordance with O. Reg. 278/05	Invasive inspection prior to maintenance/renovations/construction/demolition activities, if present and sampling confirms as ACM, removal in accordance with O. Reg. 278/05

Notes:

- 1) A copy of this report should be provided to all prospective contractors prior to tender or quotation, in accordance with Section 30 of the Occupational Health and Safety Act.
- 2) Recommended actions are the minimum required actions, as prescribed by the appropriate Acts, regulations, guidelines, standards, codes and general best practice measures. Prior to demolition, the Contractor may choose to alter the approach and combine or break out sections of work. This is acceptable provided that the appropriate Acts, regulations, guidelines, standards and codes are followed and afford protection for the health and safety of workers, occupants and the public that is at least equal to the protection that would be provided by complying with the minimum requirements.
- 3) All waste generated is subject to characterization and disposal in accordance with Ontario Regulation 347.

TABLE 2: BULK ASBESTOS SAMPLING SUMMARY

Sample #	Location	Material Description	Asbestos Content (%)	Fibre Type	Is Material ACM
2010 - Asbestos Audit Update					
S01A	Office	Drywall Joint Compound in Office	ND	-	No
S01B	Office	Drywall Joint Compound in Office	ND	-	No
S01C	Office	Drywall Joint Compound in Office	ND	-	No
S02A	Classrooms	Plaster in Classrooms	ND	-	No
S02B	Classrooms	Plaster in Classrooms	ND	-	No
S02C	Classrooms	Plaster in Classrooms	ND	-	No
S03A	Exterior	Exterior Overhang Transite (Asbestos Cement)	15%	Chrysotile	Yes
			20%	Amosite	Yes
S03B	Exterior	Exterior Overhang Transite (Asbestos Cement)	NA	Amosite	Yes
S03C	Exterior	Exterior Overhang Transite (Asbestos Cement)	NA	Amosite	Yes
2013 - Asbestos Audit Update					
S01A	224 - Pipe Chase	Pipe Insulation	Brown Paper: <0.5%	Chrysotile	No
			Black Tar Paper: ND	-	No
S01B	224 - Pipe Chase	Pipe Insulation	<0.5%	Chrysotile	No
S01C	224 - Pipe Chase	Pipe Insulation	Brown Paper: <0.5%	-	No
			Black Tar Paper: ND	Chrysotile	No
2015 - Limited Designated Substance Audit					
S01A	219	Drywall Joint Compound	ND	No	-
S01B	103	Drywall Joint Compound	ND	No	-
S01C	215	Drywall Joint Compound	ND	No	-
S02A	212	Plaster	Skim Coat: ND	No	-
			Grey Plaster: ND	No	-
S02B	211	Plaster	Skim Coat: ND	No	-
			Grey Plaster: ND	No	-
S02C	210	Plaster	Skim Coat: ND	No	-
			Grey Plaster: ND	No	-
S03A	223	Pipe Fitting	60%	Chrysotile	Yes
S03B	223	Pipe Fitting	NA	Chrysotile	Yes
S03C	223	Pipe Fitting	NA	Chrysotile	Yes
S04A	226	Transite (Asbestos Cement) Paneling	30%	Amosite	Yes
S04B	226	Transite (Asbestos Cement) Paneling	NA	Amosite	Yes
S04C	226	Transite (Asbestos Cement) Paneling	NA	Amosite	Yes
S05A	236	9"x9" Vinyl Floor Tile – Green	Floor Tile: 0.69%	Chrysotile	Yes
S05B	236	9"x9" Vinyl Floor Tile – Green	Floor Tile: NA	-	Yes
S05C	236	9"x9" Vinyl Floor Tile – Green	Floor Tile: NA	-	Yes
S06A	215	12"x12" Vinyl Floor Tile – Blue	Floor Tile: ND	-	No
			Mastic: ND	-	No
S06B	215	12"x12" Vinyl Floor Tile – Blue	Floor Tile: ND	-	No
			Mastic: NA	-	No
S06C	215	12"x12" Vinyl Floor Tile – Blue	Floor Tile: ND	-	No
			Mastic: ND	-	No
S07A	Exterior	Sealant (White)	1.92%	Chrysotile	Yes
S07B	Exterior	Sealant (White)	NA	Chrysotile	Yes
S07C	Exterior	Sealant (White)	NA	Chrysotile	Yes
2015 - Limited Designated Substance Audit - Additional Sampling					
S01A	206	9"x9" Vinyl Floor Tile – Green with White Streak	3.56%	Chrysotile	Yes
S01B	206	9"x9" Vinyl Floor Tile – Green with White Streak	NA	-	Yes
S01C	206	9"x9" Vinyl Floor Tile – Green with White Streak	NA	-	Yes
S02A	206	Mastic	0.57%	Chrysotile	Yes
S02B	206	Mastic	NA	-	Yes
S02C	206	Mastic	NA	-	Yes
2015 - Limited Designated Substance Audit - Additional Sampling					
S01A	227	12"x12" Vinyl Floor Tile – White with Grey Fleck	0.7%	Chrysotile	Yes
S01B	227	12"x12" Vinyl Floor Tile – White with Grey Fleck	NA	Chrysotile	Yes
S01C	227	12"x12" Vinyl Floor Tile – White with Grey Fleck	NA	Chrysotile	Yes
S02A	227	Mastic	<MDL	Chrysotile	No
S02B	227	Mastic	ND	-	No
S02C	227	Mastic	ND	-	No
2017 - Asbestos Audit Update					
S01A	228	12"x12" Vinyl Floor Tile - White with Blue Fleck	Tile: ND	-	No
S01B	228	12"x12" Vinyl Floor Tile - White with Blue Fleck	Tile: ND	-	No
S01C	228	12"x12" Vinyl Floor Tile - White with Blue Fleck	Tile: ND	-	No
2019 - Asbestos Audit Update					

Table 2 Sample Summary Table for St. Anne (Cambridge) CES

TABLE 2: BULK ASBESTOS SAMPLING SUMMARY

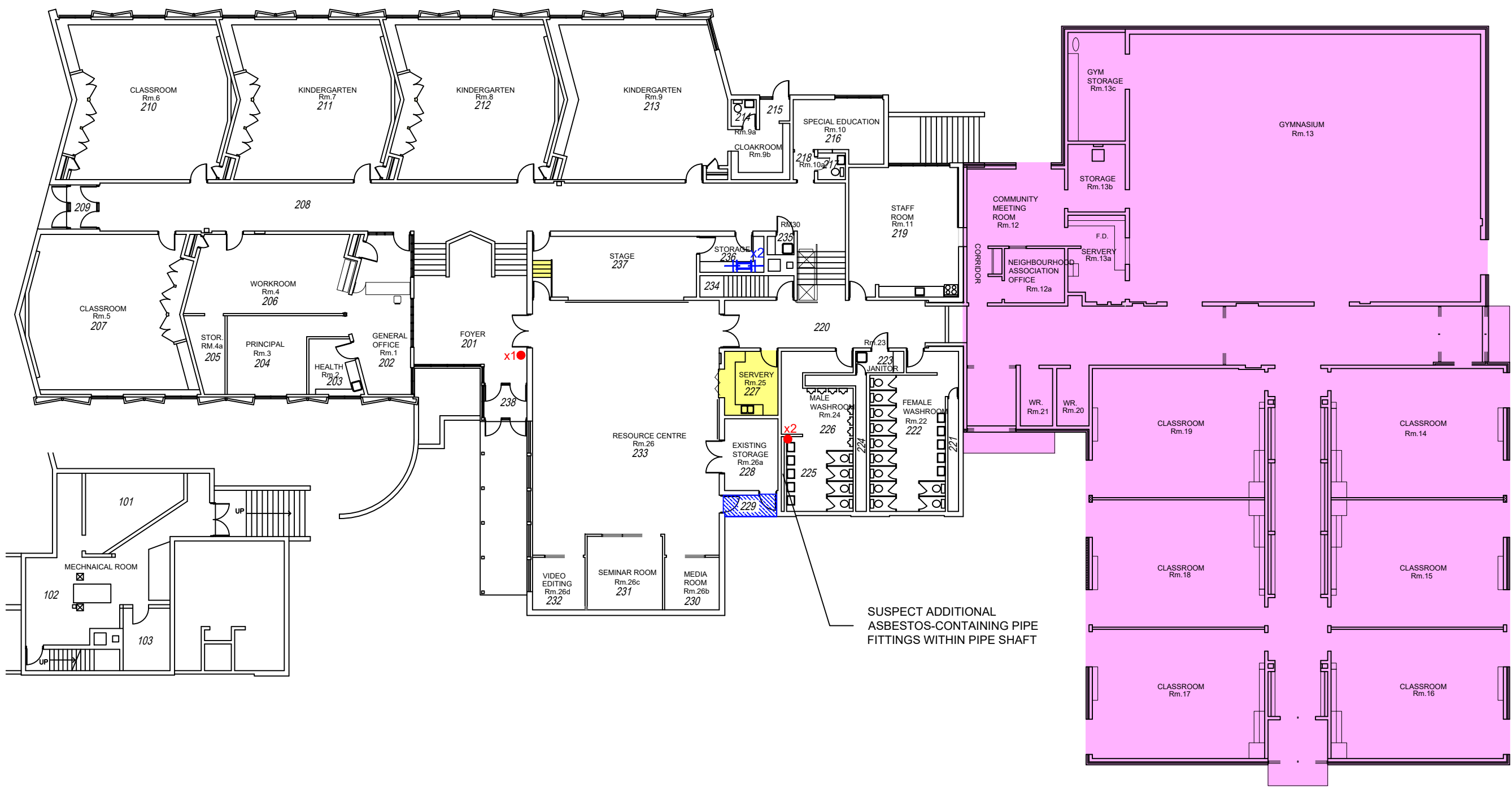
Sample #	Location	Material Description	Asbestos Content (%)	Fibre Type	Is Material ACM
S01A	233/237 Stairwell	9"x9" Vinyl Floor Tile - White with Grey Streaks	3.0%	Chrysotile	Yes
		Mastic	ND	Chrysotile	Yes
S01B	233/237 Stairwell	9"x9" Vinyl Floor Tile - White with Grey Streaks	NA	Chrysotile	Yes
		Mastic	ND	Chrysotile	Yes
S01C	233/237 Stairwell	9"x9" Vinyl Floor Tile - White with Grey Streaks	NA	Chrysotile	Yes
		Mastic	1.0%	Chrysotile	Yes

NA: Not Analyzed due to stop positive method **ND:** No asbestos fibres detected above the laboratory minimum detection limit

A bulk material sample containing 0.5% or more asbestos therefore establishes that material as asbestos-containing. In accordance with Table 1 of O. Reg. 278/05, a minimum number of samples for the material to be classified as non asbestos. A homogeneous material is defined by O. Reg. 278/05 "as material that is uniform in colour and texture". Homogeneous samples are identified by an alphabetical suffix to sample names to represent multiple samples of a homogeneous material. When a homogeneous material is analysed it is determined to be asbestos-containing upon the first positive detection of asbestos equal to or greater than 0.5%. Subsequent samples of the same material are therefore not analysed. Some bulk samples are comprised of multiple layers and as such will require multiple analysis. In such cases each layer is isolated at the laboratory and analysed individually to determine asbestos content. As a result the laboratory may report additional samples beyond the submitted number of samples or include multiple analyses as subsets within a sample.

Appendix B

Figures



White sealant on the exterior is asbestos-containing

NOTES:
 ALL DRAWINGS TO BE REFERENCED WITH THE ASSOCIATED REPORT, LOCATIONS AND QUANTITIES ARE APPROXIMATE.
 ALL KNOWN OR SUSPECT ASBESTOS-CONTAINING MATERIALS ARE NOT DEPICTED ON THIS DRAWING. REFER TO THE REPORT FOR A COMPLETE LIST OF IDENTIFIED MATERIALS.
 THIS FIGURE IS COLOUR DEPENDENT. PHOTOCOPIES MAY ALTER INTERPRETATION OF THE FIGURE. ALWAYS REFER TO ORIGINAL DRAWINGS AND REPORT.

Legend
 13 Location Number
 No Access
 Post 1999 Construction

Asbestos-Containing Materials (ACM):

- Floor Tile
- Rolled Flooring
- Ceiling Tile
- Friable Soft Textured Ceiling
- Non-Friable Hard Textured Ceiling
- Spray-On Fire Proofing
- Transite (Asbestos Cement) Paneling
- Duct Insulation
- Pipe Fitting Insulation w Quantity (Brackets Indicate # of Damaged Fittings)
- Pipe Insulation (Vertical and Horizontal)
- Transite (Asbestos Cement) Pipe (Vertical and Horizontal)
- Duct Expansion Joints w Quantity (Brackets Indicate # of Damaged Joints)
- Friable Debris



CLIENT
 WATERLOO CATHOLIC DISTRICT SCHOOL BOARD

PROJECT
 2025 ASBESTOS AUDIT UPDATE

DRAWING
 ST. ANNE CATHOLIC ELEMENTARY SCHOOL (Cambridge)
 FIRST LEVEL

Project Manager	PXS	Date	MARCH 2025
Design By	WCDSB	Project No.	61104_003
Drawn By	PXS	Drawing No.	1.0
Scale	N.T.S.		



Heating and Cooling Equipment Start Up and Commissioning Report

Date:	
Project Name	
Address	
Installing Contractor	
TSSA Registration (if appliance)	
Gas Technician # (if appliance)	

Y	N	N/A

Is gas tag attached to Unit?

Unit Information

Type:

Make:

Model:

Serial:

	Y	N	N/A		
Is the unit damaged or are there missing parts?					
Does the unit installation location provide adequate clearance for proper operation & maintenance?					
Has the ductwork been properly connected & complete					
Have all shipping brackets been removed?					
Are condensate drains properly trapped, installed correctly, filled and tested?					
Has the unit been grounded?					
Has the gas supply line been properly sized & connected to the appliance?					
Have all the gas piping joints been sealed?					
Has a gas leak check been done?					
Has gas pipe been tagged?					
Economiser Installed and Setup					
Power Exhaust Installed and Setup					
Has B.A.S. control been verified					
Fan Rotation Verified					
Compressor Rotation Verified				Size:	Quantity
Belt Size and quantity					
Filter Size and quantity					
Have all the water connections/piping been installed					

Supply Voltage	Nameplate Voltage	V:	Ph:	Hz:
	Measured Voltage	L1:	L2:	L3:

Temperature Readings	Outside air	°F
	Supply Air (Heating)	°F
	Supply Air (Cooling)	°F
	Return Air	°F

	Water in Temp	Water Out Temp	
Boiler	T:	T:	△
Heat Pump	T:	T:	△
Unit Vent	T:	T:	△
Chillers	T:	T:	△
Cooling Tower	T:	T:	△

Type of Gas		Supply Gas Pressure	
	Low Fire	High Fire	
Manifold gas Pressure	"w.c.	"w.c.	
Gas Input Rate	BTUh	BTUh	
CO2 in Flue Gas	%	%	
CO in Flue Gas	ppm	ppm	
Flue Gas Temperature	°F	°F	

Combustion Analysis Report Attached

Required for all gas fired appliances

Y / NA

Flame Signal

Circuit	1	Refrigerant Type and Charge Factory	Field
	2		

Circuit 1	Cooling	Heating
Suction Pressure	PSI °F	PSI °F
Suction Line Temp	°F	°F
Superheat Temp	°F	°F
Discharge Pressure	PSI °F	PSI °F
Liquid Pressure	PSI °F	PSI °F
Liquid Line Temp	°F	°F
Sub Cooling Temp	°F	°F
Cond Temp IN	°F	°F
Cond Temp OUT	°F	°F
Circuit 2	Cooling	Heating
Suction Pressure	PSI °F	PSI °F
Suction Line Temp	F	°F
Superheat Temp	°F	°F
Discharge Pressure	PSI °F	PSI °F
Liquid Pressure	PSI °F	PSI °F
Liquid Line Temp	°F	°F
Sub Cooling Temp	°F	°F
Cond Temp IN	°F	°F
Cond Temp OUT	°F	°F

Supply Fan Amps

Low Speed:	
High Speed:	

VFD: YES / NO

If Yes, what is the controlling fan speed?	
--------------------------------------------	--

Unit? BAS	
-----------	--

This start up report must be left with each individual Unit and does not substitute Manufacturers start up reports, or gas tags, as required by local codes.



Boiler Start up and Commissioning Report

Date:							
Project Name:							
Address:							
Installing Contractor:							
TSSA Registration:							
Gas Technician and #:							
		Y		N		N/A	
Is Gas tag attached to unit?							
Boiler Manufacturer:							
M#							
S#							
Burner Manufacturer (If different than Boiler)							
M#							
S#							
BTU/H							
Inlet Fuel pressure:							
Inlet Fuel Pressure at High Fire:							
		Low		Mid		High	
Manifold Fuel Pressure:							
Combustion Analysis Results Attached?							
		Y		N		NA	
Is Boiler Direct Vented:							
If no: Adequate Combustion Air Sized In accordance with code:							
		Square Inches					
Combustion air Requirements:							
		Y		N		NA	
Is a Barometric Damper installed:							
Is Barometric damper functioning properly							
Is boiler venting/drafting properly							
Pump Rotations Verified							
Boiler Pump Amps:							
Main Loop Pump Amps:							
Boiler Feed Regulator Setpoint: PSI							
Glycol Feed Setpoint:							
		Y		N		NA	
Is Boiler Controlled by B.A.S.							
Temperature Setpoints:							
Boiler Outdoor Reset Setpoint:							

One copy of this report submitted with final invoice, 1 copy must be left with each individual unit. This does not substitute Manufacturer's commissioning Reports, or gas tags, as required by local codes.



Heating and Cooling Equipment Start up and Commissioning Report

Date:	
Project Name	
Address	
Installing Contractor	
TSSA Registration (if appliance)	
Gas Technician # (if appliance)	

Y	N	N/A

Is gas tag attached to Unit?

Unit Information

Type:

Make:

Model:

Serial:

	Y	N	N/A		
Is the unit damaged or are there missing parts?					
Does the unit installation location provide adequate clearance for proper operation & maintance					
Has the ductwork been properly connected & complete					
Have all shipping brackets been removed					
Are condensate drains properly trapped, installed correctly, filled and					
Has the unit been grounded					
Has the gas supply line been properly sized & connected to the					
Have all the gas piping joints been sealed					
Has a gas leak check been done					
Has gas pipe been tagged					
Economiser Installed and Setup					
Power Exhaust Installed and Setup					
Has B.A.S. control been verified					
Fan Rotation Verified					
Compressor Rotation Verified				Size:	Quantity:
Belt Size and quantity					
Filter Size and quantity					
Have all the water connections/piping been installed					

Supply Votage	Nameplate Voltage	V:	Ph:	Hz:
	Measured Voltage	L1:	L2:	L3:

Temperature Readings	Outside air	°F
	Supply Air (Heating)	°F
	Supply Air (Cooling)	°F
	Return Air	°F

	Water in Temp	Water Out Temp	
Boiler	T:	T:	△
Heat Pump	T:	T:	△
Unit Vent	T:	T:	△
Chillers	T:	T:	△
Cooling Tower	T:	T:	△

Type of Gas		Supply Gas Pressure	
	Low Fire	High Fire	
Manifold gas Pressure	"w.c.	"w.c.	
Gas Input Rate	BTUh	BTUh	
CO2 in Flue Gas	%	%	
CO in Flue Gas	ppm	ppm	
Flue Gas Temperature	°F	°F	

Combustion Analysis Report Attached

Required for all gas fired appliances

Y / NA

Flame Signal

Circuit	1	Refrigerant Type and Charge	Field
	2		
		Factory	

Circuit 1	Cooling		Heating	
	PSI	°F	PSI	°F
Suction Pressure				
Suction Line Temp	°F		°F	
Superheat Temp	°F		°F	
Liquid Pressure	PSI	°F	PSI	°F
Liquid Line Temp	°F		°F	
Sub Cooling Temp	°F		°F	
Cond Temp IN	°F		°F	
Cond Temp OUT	°F		°F	
Circuit 2	Cooling		Heating	
	PSI	°F	PSI	°F
Suction Pressure				
Suction Line Temp	°F		°F	
Superheat Temp	°F		°F	
Liquid Pressure	PSI	°F	PSI	°F
Liquid Line Temp	°F		°F	
Sub Cooling Temp	°F		°F	
Cond Temp IN	°F		°F	
Cond Temp OUT	°F		°F	

Supply Fan Amps

Low Speed:

High Speed:

VFD: YES / NO

If Yes, what is the controlling fan speed?

Unit? BAS

One copy of this report submitted with final invoice, 1 copy must be left with each individual unit. This does not substitute Manufacturer's commissioning Reports, or gas tags, as required by local codes.

INCENTIVE APPLICATION CHECK LIST

Please ensure that the following information is submitted to the Waterloo Catholic District School Board:

- 1. Energy Efficient Equipment:** To be eligible for an incentive, all proposed equipment has to have an **ENERGY STAR or DLC label** on it.
- 2. Proposed Equipment:** Submit proposed equipment including: spec sheets and quantities per equipment type. Documentation must include: make and model of equipment such as motors, roof top units, chillers, VFDs, lamp, and ballast etc.
- 3. Initial Quote:** Initial quote and any additional invoices must reflect the proposed equipment and should include a detailed breakdown of the equipment proposed to be installed, quantity per equipment type, and equipment and labor costs. The invoice also has to include the make and model number, and type of proposed equipment as shown in the *“Initial Quote (Proposed Equipment)”* form.
- 4. Equipment Disposal and Decommissioning:** The intent of this procedure is to remove the old equipment from the system thereby realize the energy savings provided by the new or retrofitted material. The existing equipment that is being retrofitted **must not** be disposed of in the landfill.

The Contractor must submit written proof or evidence or acknowledgement that the disposal of all materials was done so in accordance with all current disposal requirements (see attached). Acceptable Documents: Invoices OR Disposal Certificates OR Disposal Declaration Form. This documentation must be on the disposal facility’s letterhead or invoice, or the Contractor’s letterhead or invoice. The Disposal Certificate/ Invoice/ Declaration must indicate the total number of old equipment.

Note: During the construction phase, some of the equipment (e.g., bulbs, lamps, ballasts etc.) when removed might break and will not be recyclable. It is important that the number of total recycled equipment and the total number of broken equipment is noted on the disposal certificate.

- 5. Confirmation:** The Contractor will take all necessary steps to have equipment that was removed or replaced as part of any Work disposed of or decommissioned in accordance with appropriate disposal or decommissioning processes, applicable laws, and in accordance with commercially reasonable environmental practices.

Initial Quote (Proposed Equipment)

Date:			
School Board:			
School Name:			
School Address:			
List of proposed equipment:			
Product name <i>(e.g., lamp, ballast, boiler, heat pump, roof top units, etc.)</i>	Quantity	Model number and Manufacturer	Cost Breakdown for equipment & labor
<i>Example: Lamps</i>	<i>30 lamps</i>	<i>Sylvania F032/841/ECO</i>	<i>Equipment: \$2,000 Labor: \$1,000</i>

Disposal Declaration Form

Date:		
School Board:		
School Name:		
School Address:		
Application #:		
LDC#:		
ISEO#:		
Equipment	Quantity	Comments
<i>Lighting example:</i> Manufacturer: Sylvania Model #: F032/841/ECO Wattage: 32W	# of fixtures: 15 # of lamps: 30	
(Modify as required) Manufacturer: Model #: Wattage:		
(Modify as required) Manufacturer: Model #: Wattage:		
Disposal Facility:		
Contractor Company Name:		
Name and Title:		
Signature:		
The undersigned Contractor warrants that they have taken all necessary steps to dispose of equipment that was removed or replaced (listed below) as part of this Retrofit Program Application in accordance with appropriate disposal or decommissioning processes, applicable laws, and in accordance with commercially reasonable environmental practices.		

PART 1 - GENERAL

1.1. DESCRIPTION OF WORK

- .1 Work under this Contract covers construction of the:

St Anne Cambridge CES Renovation

- .2 Maintain at job site, one copy each of the following:

- .1 Contract drawings
- .2 Specifications
- .3 Addenda
- .4 Reviewed shop drawings.
- .5 Contract Instructions/Bulletins
- .6 Change orders.
- .7 Field test reports
- .8 Copy of approved work schedule.
- .9 Manufacturers' installation and application instructions
- .10 Site visit reports

1.2. CODES AND STANDARDS

- .1 Perform work in accordance with the current edition of the Ontario Building Code (OBC) and any other code of provincial or local application provided that in any case of conflict or discrepancy, more stringent requirements shall apply.
- .2 Meet or exceed requirements of specified standards, codes, and referenced documents.

1.3. PROJECT MEETINGS

- .1 Contractor will arrange project meetings and assume responsibility for setting times and recording and distributing minutes.

1.4. SETTING OUT OF WORK

- .1 Assume full responsibility for an execute complete layout of work to locations, lines and elevations indicated.
- .2 Provide devices needed to lay out and construct work.
- .3 Supply such devices as straight edges and templates required to facilitate inspection of work.
- .4 Supply stakes and other survey markers required for laying out work.

1.5. LOCATIONS OF EQUIPMENT & FIXTURES

- .1 Location of equipment, fixtures and outlets indicated or specified are to be considered as approximate.
- .2 Locate equipment, fixtures, and distribution systems to provide minimum interference and maximum suable space and in accordance with manufacturer's recommendations for safety.
- .3 Inform Consultant of impending installation and obtain approval for actual location.
- .4 Submit field drawings to indicate relative position of various services and equipment when required by Consultant.

1.6. CONCEALMENT

- .1 Conceal pipes, ducts and wiring in floor, wall and ceiling construction of finished areas except where indicated otherwise.

1.7. CUTTING, FITTING AND PATCHING

- .1 Execute cutting (including excavation), fitting and patching required to make work fit properly together.
- .2 Where new work connects with existing and where existing work is altered, cut, patch, and make good to match existing work.
- .3 Define and mark energy sources, provide appropriate shut off or lockout provisions to ensure safety prior to any cutting, boring or demolition.
- .4 Obtain all required locates, maintain service markings, keep accurate records of service locations, and notify Owner and Consultant of locate outcomes.
- .5 Obtain Structural Consultant's approval before cutting, boring or sleeving load-bearing members.
- .6 Make cuts with clean, true, smooth edges. Make patches inconspicuous in final assembly.
- .7 Fit work airtight to pipes, sleeves, ducts, and conduits.
- .8 Cutting and patching of new or existing work to accommodate installation of work of Mechanical and Electrical trades is the responsibility of the trade performing the installation.

1.8. EXISTING SERVICES

- .1 Before commencing Work, establish location and extent of service lines in area of work and notify Consultant of findings.
- .2 Where unknown services are encountered, immediately advise Consultant, and confirm findings in writing.

1.9. ADDITIONAL DRAWINGS

- .1 Four (4) complete sets of Drawings and Specifications are furnished to the General Contractor. Additional sets may be printed from PDF copies of documents at the cost of the General Contractor.

- .2 Consultant may furnish additional drawings to assist proper execution of work. These drawings will be issued for clarification only. Such drawings shall have the same meaning and intent as if they were included in original documents.
- .3 Drawings provide overall dimensions to finished surfaces or grid lines. The General Contractor is responsible for verifying all dimensions and determining any additional dimensions required for layout or coordination.
- .4 The General Contractor shall coordinate the layout of all building components and systems, including ceilings, bulkheads, and service spaces to avoid interference before installation. The General Contractor shall revise services or components not properly coordinated in advance, at no additional cost to the Owner.

1.10. WORK SCHEDULE

- .1 Provide schedule showing anticipated progress stages and final completion of work within time period required by Contract Documents.
- .2 Utilize a digital Gantt chart format correlated to cost breakdown format showing progress of each trade division against a baseline.
- .3 Provide an updated schedule with each payment application. Failure to provide an acceptable schedule will result in the monthly general accounts being withheld.

1.11. COST BREAKDOWN

- .1 Submit breakdown of Contract prices by Specification Division and Section and aggregating contract price. After approval by Consultant, cost breakdown will be used as the basis for progress payment.
- .2 Indicate initial set up costs separately from ongoing site operation costs. Provide a complete list of initial costs with invoices for specific items including insurance and bonds.
- .3 Ongoing site operation costs shall include the cost of the Superintendent at full time for the duration of the work.

1.12. CONTRACTOR'S USE OF SITE

- .1 Use of the site is as illustrated on the Site Plan and is restricted to the area of the site within the construction barrier.
- .2 The General Contractor shall restore surfaces damaged by construction outside of the construction area to their original condition, at no additional cost to the Contract.

1.13. WORKMANSHIP

- .1 Workmanship is to be of the best quality, executed by workers experienced and skilled in respective duties for which they are employed.
- .2 Do not employ any unfit person or anyone unskilled in their required duties. A minimum of five years' trade experience is required for work on this project or tradesman who has completed and passed their apprenticeship program or other educational program acceptable to the Consultant. An apprentice accompanied by a qualified trade instructor is allowed.
- .3 When requested by the Consultant, provide a completely finished sample of each element of the work for review by the Consultant. Once accepted, this sample will be used to determine the workmanship expected for the remaining work.
- .4 Decisions as to quality or fitness of workmanship in cases of dispute rest solely with the Consultant, whose decision is final. The General Contractor shall enforce such decisions with the respective subtrades.

1.14. DEFICIENCIES

- .1 The Consultant will periodically review the work and advise the General Contractor in writing of review.
- .2 Deficiencies which remain outstanding for over one month's time will entitle the Consultant to not certify any further payment for that respective trade division until the deficiencies are corrected to the Consultant's satisfaction.

END OF SECTION

1.1 WORK OF THIS CONTRACT

- .1 *Work* of this *Contract* comprises the following:

St Anne Cambridge CES Renovation

- .2 Municipal Address: **127 Elgin Street North, Cambridge, ON, N1R 0E1**

1.2 DIVISION OF WORK

- .1 Division of the *Work* among *Subcontractors* and *Suppliers* is solely the *Contractor's* responsibility. *Consultant* and *Owner* assume no responsibility to act as an arbiter to establish subcontract limits between Sections or Divisions of the *Work*.

1.3 SPECIFICATIONS LANGUAGE AND STYLE

- .1 These specifications are written in the imperative mood and in streamlined form. The imperative language is directed to *Contractor*, unless stated otherwise.
- .2 Complete sentences by reading "shall", "*Contractor* shall", "shall be", and similar phrases by inference. Where a colon (:) is used within sentences and phrases, read the words "shall be" by inference.
- .3 Fulfill and perform all indicated requirements whether stated imperatively or otherwise.
- .4 When used in the context of a *Product*, read the word "provide" to mean "supply and install to result in a complete installation ready for its intended use".

1.4 CONTRACT DOCUMENTS FOR CONSTRUCTION PURPOSES

- .1 *Consultant* will supply *Contractor* with a complete set of *Contract Documents* in electronic form before commencement of the *Work*. *Contractor* may print hard copies for construction purposes as required.

1.5 DOCUMENTS AT THE SITE

- .1 Keep the following documents at *Place of the Work*, stored securely and in good order and available to *Owner* and *Consultant* in hard copy and electronic form:
- .1 Current *Contract Documents*, including *Drawings*, *Specifications* and addenda.
 - .2 *Change Orders*, *Change Directives*, and *Supplementary Instructions*.
 - .3 Reviewed *Shop Drawings*, *Product* data and samples.
 - .4 Field test reports and records.

- .5 Construction progress schedule.
- .6 Meeting minutes.
- .7 Manufacturer's certifications.
- .8 Permits, inspection certificates, and other documents required by authorities having jurisdiction.
- .9 Current as-built drawings.
- .10 Material Safety Data Sheets (MSDS) for all controlled *Products*.

1.6 CONTRACTOR'S USE OF PREMISES

- .1 Except as otherwise specified, *Contractor* has unrestricted use of *Place of the Work* from time of *Contract* award until *Ready-for-Takeover*.
- .2 Confine *Construction Equipment*, *Temporary Work*, storage of *Products*, waste products and debris, and all other construction operations to limits required by laws, ordinances, permits, and *Contract Documents*, whichever is most restrictive. Do not unreasonably encumber *Place of the Work*.

1.7 OWNER-SUPPLIED PRODUCTS

- .1 *Owner* Responsibilities:
 - .1 Order and pay for *Owner-supplied Products* not already in *Owner's* possession.
 - .2 Arrange and pay for delivery of *Owner-supplied Products* F.O.B. the site, within time frames required by *Contractor's* progress schedule.
 - .3 Advise *Contractor* in writing of the value of *Owner-supplied Products* for *Contractor's* insurance purposes.
 - .4 Arrange and pay for delivery to *Contractor* of reviewed *Shop Drawings*, *Product* data, samples, and manufacturer's installation instructions.
 - .5 Inspect deliveries jointly with *Contractor*.
 - .6 Arrange for replacement of damaged, defective or missing items identified at time of delivery.
 - .7 Arrange for delivery of manufacturer's warranties to *Contractor* for inclusion in operation and maintenance manual.

.2 *Contractor* Responsibilities:

- .1 Designate in progress schedule, time frames for delivery of *Owner*-supplied *Products* to the site and for receipt of related submittals.
- .2 Review all required submittals and notify *Consultant* of any observed discrepancies or anticipated problems.
- .3 Ensure that course of construction insurance is adequate to cover *Owner*-supplied *Products*.
- .4 Receive and unload *Owner*-supplied *Products* at the site.
- .5 Inspect deliveries jointly with *Owner*. Record and notify *Owner* and *Consultant* of shortages and visibly damaged or defective items.
- .6 Handle *Owner*-supplied *Products* at site, including uncrating and storage. Dispose of waste materials and debris.
- .7 Take appropriate precautions to protect *Owner*-supplied *Products* from loss or damage.
- .8 Repair or replace items damaged on site.
- .9 Assemble, install, connect, adjust, and finish *Owner*-supplied *Products* as specified.
- .10 Arrange for inspections required by authorities having jurisdiction as specified.
- .11 Arrange for or perform testing as specified.
- .12 Workmanship warranty for installation.

.3 Schedule of *Owner*-supplied *Products*:

- .1 Washroom accessories: Soap dispensers, paper towel dispensers, toilet tissue dispensers, napkin disposals, napkin dispensers, and additional collapsible hooks already not included in the Specifications.

END OF SECTION

Part 1 General

1.1. PROCEDURE

- .1 The manner in which cash allowances and contingency allowances will be addressed is as specified in the Contract Documents as amended by the Supplementary General Conditions.
- .2 No expenditure against Cash Allowances shall be made or incurred except as instructed by the Consultant in writing.
- .3 No additional mark up for the Contractor's expense and profit will be allowed where individual specific purpose Cash Allowances are exceeded.
- .4 The amounts listed are deemed to be all inclusive but not to include Value Added Taxes (H.S.T.).

1.2. SPECIFIC PURPOSE CASH ALLOWANCES

Refer to CCDC 2 .

2. Include in the Contract Price the cash allowances stated herein.
3. Expenditures under cash allowances shall occur only with Consultant's prior consent
4. Where costs under cash allowances exceed the total amount of the cash allowances indicated by less than 10% of the aggregated stated values, the Contractor will be compensated for any excess incurred and substantiated, without any allowance for overhead and profit.
5. Where costs under cash allowances exceed the total amount of the cash allowances indicated by more than 10% of the aggregate stated values, the Contractor will be compensated for any excess incurred and substantiated plus an allowance for overhead and profit as set out in the Contract Documents.
6. Progress payments on accounts of work authorized under cash allowances shall be included in the Consultant's monthly certificate for payment. Submit invoices in support of claims.
7. Where costs under a specific cash allowance exceed of the amount of the allowance, unexpended amounts from other specific cash allowances shall be reallocated at the Consultant's direction to cover the shortfall.
8. The amount of allowance covers for the school, for Work specified in the respective specification Sections, shall be One Hundred Sixty-Four Thousand Nine Hundred Dollars (\$164,900.00) not including Harmonized Sales Tax (HST):

- Finish Hardware: Supply ONLY. Installation Part of the Base Bid \$85,000.00
- Terrazzo \$15,000.00
- BAS \$46,900.00
- Testing and Inspection \$10,000.00
- Abatement \$ 5,000.00
- Exit 9 new fob reader \$ 3,000.00

END OF SECTION

1.1 GENERAL

- .1 Refer to General Conditions of the Contract as amended by Section 00730 – Supplementary Conditions, PART 5 - PAYMENT of these Specifications.

1.2 PRE- INVOICE SUBMISSION

- .1 Three (3) working days prior to date of the Application of Payment, the *Contractor* shall submit a draft application for payment (a "*Pre-Invoice Submission*") to the *Owner* and the *Consultant* for review with confirmation that all of the criteria for a *Proper Invoice* are satisfied. If not satisfied, the application for payment will be returned to the *Contractor* with reasons from the *Owner* or the *Consultant* setting out why the application for payment is not a valid *Proper Invoice*.

1.3 PROPER INVOICE SUBMISSION DATE

- .1 The Proper Invoice Submission Date and date on the Proper Invoice shall be the same date, which is the first day of the month, and shall include work completed at the Place of the Work up and until the last day of the previous month.

1.4 DELIVERY OF APPLICATION FOR PAYMENT

- .1 The Application for Payment must be delivered to the *Owner* and the *Consultant* on the same day as the *Proper Invoice* date and the *Proper Invoice Submission Date*, which is the first day of the month.
- .2 Delivered by e-mail to:
 - .1 the *Owner's* representative Kimberly Briones at **Kimberly.Briones@wcdsb.ca** and,
 - .2 the Consultant Sonia Diaz at **sonia.d@1721architects.ca**,
- .3 e-mail subject line must contain:
 - .1 WCDSB project number,
 - .2 type of payment application; Draft, Progress, Substantial Performance or Final,
 - .3 contractor invoice number,

1.5 PROPER INVOICE FOR APPLICATIONS FOR PAYMENT

- .1 To satisfy the requirements for *Proper Invoice*, the following criteria, as may be applicable in each case, must be included with the *Contractor's* application for payment:
 - .1 *Contractor's* name and current address on company letterhead;
 - .2 *Contractor's* HST registration number;
 - .3 identify the name of school or facility;
 - .4 a unique invoice number and, the certificate or draw number;
 - .5 School project number, and Consultant project number;
 - .6 Proper Invoice Submission Date and the due date;
 - .7 period of time in which services or materials were supplied to the *Owner*,
 - .8 a description, including quantities where appropriate, of the services or

materials, or a portion thereof, that were supplied with confirmation that all Product delivered to the Place of Work is free and clear of any security interests, liens, encumbrances and any other claims of third parties;

- .9 an amount the *Contractor* is requesting to be paid by the *Owner*, separating out any statutory or other holdbacks, set-offs and HST;
 - .10 Submit a statutory declaration in the form of CCDC 9A – Statutory Declaration of Progress Payment Distribution by *Contractor* except the first payment application;
 - .11 a current Workplace Safety Insurance Board clearance certificate;
 - .12 a pre-approved schedule of values (refer to 1.6 below), supplied by the *Contractor*, for Divisions 1 through 14 of the *Specifications* of the *Work*, including a current list of change orders and cash allowances aggregating the total amount of the *Contract Price*, including all supporting invoicing;
 - .13 a separate pre-approved schedule of values (refer to 1.6 below), supplied by *Subcontractor*, for each of Division 15 and 16 of the *Specifications*, aggregating the total amount of the *Contract Price*, including all supporting invoicing;
 - .14 where the invoice amount includes amounts charged on the basis of unit rates, documentation evidencing what part(s) of the *Work* was completed in relation to the overall *Work* to be completed, including delivery receipts identifying products and materials for which payment is being applied for;
 - .15 where the invoice amount includes amounts charged on the basis of hourly rates, documentation in support of the amount claimed, including dates that services were performed, identify of the person(s) involved, the hours spent, and a description of the services performed;
 - .16 a statement, on company letterhead, indicating current Construction Schedule is accurate and, if not, attach a Construction Schedule Update as per Section 01320 – Construction Progress Documentation, 1.2.2 Construction Schedule Update of these bid documents;
 - .17 the name, title, telephone number, mailing address and e-mail address of the person at the place of business of the *Contractor* to whom the payment information is to be directed;
- .2 in the case of the *Contractor's* application for Substantial Performance of the *Work* or Payment of Holdback, in addition to the foregoing requirements (as applicable):
- .1 include a complete deficiency list in the form listed in GC 5.8 Deficiency Holdback to be utilized for the calculation of *Substantial Performance of the Work*,
 - .2 a statement that no written notices of lien have been received.
- .3 in the case of the *Contractor's* application for final payment, in addition to the two foregoing requirements (as applicable):
- .1 a statement that all requirements pursuant to Section 01770 – Closeout Procedures, 1.2 *Ready-For-Takeover* have been completed;
 - .2 written request for release of remaining deficiency holdback, including a statement that no written notices of lien have been received, and;

- .3 written certification that there are no outstanding claims, pending claims or future claims from the *Contractor* or their *Subcontractors* or *Suppliers*.

1.6 SCHEDULE OF VALUES

- .1 Refer also to General Conditions of the Contract as amended by Section 00730 – Supplementary Conditions, GC5.2.4, GC 5.2.5.
- .2 Fifteen (15) days prior to the first application for payment, submit for *Consultant's* review an initial schedule of values. Modify the initial schedule of values if and as requested by *Consultant*. Obtain *Consultant's* written acceptance of the initial schedule of values prior to the first application for payment.
- .3 Together with the first and all subsequent applications for payment, submit updated versions of the schedule of values to indicate the values, to the date of application for payment, of work performed and *Products* delivered to *Place of the Work*.
- .4 Provide the schedule of values in an electronic spreadsheet format that provides for inclusion of the following information:
 - .1 Identifying information including title and location of the *Work*, name of *Contractor*, number and date of application for payment, and period covered by the application for payment.
 - .2 A work breakdown structure that is sufficiently detailed and comprehensive to facilitate *Consultant's* evaluation of applications for payment at an appropriate level of detail.
 - .3 Provisions for approved *Change Orders*, and allowances, so that the breakdown amounts indicated in the schedule of values aggregate to the current total *Contract Price*. Also provide for indicating the estimated value of *Change Directives* within the schedule of values, separately from the current total *Contract Price*.
 - .4 For each item in the work breakdown structure, provide as a minimum the following information, under headings as indicated:
 - .1 Breakdown Amount: A dollar amount, including an appropriate pro rata portion of *Contractor's* overhead and profit.
 - .2 Closeout Document Holdback: A 1% value of the Breakdown Amount to account for the cost of closeout submittals, demonstration and training, start-up and testing, and commissioning, stated in dollars with a minimum amount of \$300.00.
 - .3 Closeout Document Holdback Release: The value will be released once Closeout Procedure information is provided by the *Contractor* and / or *Subcontractor* to the *Contractor* and *Owner*.

- .4 Performed to Date: The value of *Work* performed and *Products* delivered to *Place of the Work* up to the date of the application for payment, stated as a percentage of the *Contract Price* less 1% Closeout Procedure value and in dollars.
- .5 Previously Performed: The value of *Work* performed and *Products* delivered to the *Place of the Work* for which payment has been previously certified, stated in dollars.
- .6 Current Period: The value of *Work* performed and *Products* delivered to *Place of the Work* for which *Contractor* is currently applying for payment, stated in dollars.
- .7 Balance to Complete: The value of *Work* not yet performed and *Products* not yet delivered to *Place of the Work*, stated in dollars.

END OF SECTION

1.1 **SUMMARY**

- .1 This Section specifies *Contractor's* responsibilities for preparation and submission of schedules and other documentation related to tracking construction progress as described in the General Conditions of the Contract as amended by Section 00730 Supplementary Conditions, GC 3.8 SHOP DRAWINGS AND OTHER SUBMITTALS in these Contract Documents.
- .2 The purpose of submitting progress schedules is to:
 - .1 Inform *Owner* and *Consultant* of actual progress versus planned progress.
 - .2 Provide assurance that scheduling issues are being proactively identified and addressed in a timely manner, and that planned progress is being maintained as closely as possible.

1.2 **CONSTRUCTION SCHEDULE**

- .1 Construction Schedule means the schedule for the performance of the *Work* to be provided by the *Contractor* as described in the General Conditions of the Contract as amended by Section 00730 Supplementary Conditions, GC 3.4 - CONSTRUCTION SCHEDULE of these *Contract Documents*.
- .2 Construction Schedule Update means an update to the Construction Schedule by the *Contractor* that accurately depicts the progress of the *Work* relative to the critical path established in the approved Construction Schedule (or any approved successor Construction Schedule), aligns with the currently approved date for *Ready for Takeover* of the *Work*, shows up-to-date projected major activity sequences and durations, and shows any changes or delays in anticipated completion dates of major activities in the *Work* relative to the previous Construction Schedule or Construction Schedule Update, and includes a record version of the updated Construction Schedule in PDF format.
- .3 Format and Content:
 - .1 Prepare schedule employing construction scheduling software in the form of a Critical Path Method (CPM) Gantt chart that permits the progress of the *Work* to be monitored in relation to the critical path established in the schedule.
 - .2 Provide a work breakdown structure identifying key activities, work packages, stages, phases, and major milestones, including long delivery *Products* whose delivery is critical to the schedule for the *Work* or are required by the *Contract* to be included in a *Products* delivery schedule, inspection and testing activities, preparation and review of mock-ups, *Owner* decisions for cash allowances, delivery of *Owner* supplied *Products*, demonstration and training activities, and similar items, at a sufficient level of detail to effectively manage construction progress.

- .3 Indicate milestone dates for both *Substantial Performance of the Work* and *Ready-for-Takeover*.
- .4 Submission:
 - .1 Submit initial schedule to *Owner* and *Consultant* within ten (10) *Working Days* after *Contract* award.
 - .2 Submit schedule via e-mail as PDF electronic file.
 - .3 *Consultant* will review format and content of initial schedule and request necessary changes, if any, within five (5) *Working Days* after receipt.
 - .4 If changes are required, resubmit finalized initial schedule within five (5) *Working Days* after return of review copy.

1.3 **SUBMITTALS SCHEDULE**

- .1 Prepare a *Shop Drawings* schedule acceptable to the *Owner* and the *Consultant* prior to the first application for payment. A draft of the proposed *Shop Drawings* schedule shall be submitted by the *Contractor* to the *Consultant* and the *Owner* for approval. The draft *Shop Drawings* schedule shall clearly indicate the phasing of *Shop Drawings* and other *Submittals* submissions. The *Contractor* shall periodically re-submit the *Shop Drawings* schedule to correspond to changes in the construction schedule.
- .2 Format and Content:
 - .1 Prepare schedule identifying all required *Shop Drawing*, *Product* data, and sample submissions.
 - .2 Prepare schedule in electronic format.
 - .3 Provide a separate line for each required submittal, organized by *Specifications* section names and numbers, and further broken down by individual *Products* and systems as required.
 - .4 For each required submittal, show planned earliest date for initial submittal and latest date for return of reviewed submittal without causing delay.
 - .5 Allow time in schedule for resubmission of submittals, should resubmission be necessary.
- .2 Submission:
 - .1 Submit initial schedule to *Consultant* within fifteen (15) *Working Days* after *Contract* award.

- .2 Submit schedule via e-mail as electronic .pdf file.
- .3 Consultant will review format and content of initial schedule and request necessary changes, if any, within five (5) *Working Days* after receipt.
- .4 If changes are required, resubmit finalized schedule within 5 *Working Days* after return of review copy.
- .5 Submit updated submittals schedule at each bi-weekly project meeting to *Owner* and *Consultant*.

1.4 SCHEDULE MANAGEMENT

- .1 A schedule submitted as specified and accepted by *Consultant* shall become the baseline schedule and shall be used as the baseline for updates.
- .2 At each regular project meeting, review and discuss current construction progress and submittals schedules with *Consultant* and *Owner*, including activities that are behind schedule and planned measures to regain schedule slippage in key areas on or near the critical path.
- .3 Activities considered behind schedule are those with start or completion dates later than the dates shown on the baseline schedule.
- .4 Schedules that are behind schedule will require a Construction Schedule Update as per to 1.2.2 above and as described in the General Conditions of the Contract as amended by Section 00730 Supplementary Conditions of these *Contract Documents*.

1.5 RECORDING ACTUAL SITE CONDITIONS ON AS-BUILT DRAWINGS

- .1 Obtain a hard copy set of construction *Drawings* for the purpose of creating as-built drawings. Record information and maintain as-built drawings in clean, dry and legible condition.
- .2 Clearly label each drawing as "AS-BUILT DRAWING". Record information concurrently with construction progress. Do not conceal *Work* until required information is recorded.
- .3 Record actual construction including:
 - .1 Measured depths of elements of foundation in relation to finish first floor datum.
 - .2 Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.

- .3 Measured locations of pipes, ducts, conduits, outlets, fixtures, access panels, and appurtenances, referenced to visible and accessible features of construction.
 - .4 Field changes of dimension and detail.
 - .5 Changes made by *Change Orders* and *Supplemental Instructions*
 - .6 References to *Shop Drawings*, where *Shop Drawings* show more detail.
- .4 Do not use as-built drawings for construction purposes.
 - .5 Scan completed hard copy as-built drawings to electronic pdf format and send electronic file to *Owner* and *Consultant*. Refer to Section 01780 – Closeout Submittals.

1.6 PROGRESS DRONE VIDEO

- .1 The *Owner* may arrange for drone video to document and provide a video record of the progress of *Work*.
- .2 Allow drone pilot to complete flight path over the *Place of the Work* bi-weekly or as needed throughout the *Work*.

END OF SECTION

ADMINISTRATIVE

- .1 Submit specified submittals to *Consultant* for review. Submit with reasonable promptness and in orderly sequence so as to not cause delay in the *Work*. Failure to submit in ample time is not considered sufficient reason for an extension of *Contract Time* or for *Product* substitutions or other deviations from the *Drawings* and *Specifications*.
- .2 Where required by authorities having jurisdiction, provide submittals to such authorities for review and approval. Expedite these submittals.
- .3 Do not proceed with *Work* affected by a submittal until review is complete.
- .4 Present *Shop Drawings*, *Product* data, and samples in metric units. Where items or information is not produced in metric units, converted values are acceptable.
- .5 Review submittals, provide verified field measurements where applicable, and affix *Contractor's* review stamp prior to submission to *Consultant*. *Contractor's* review stamp represents that necessary requirements have been determined and verified, and that the submittal has been checked and coordinated with requirements of the *Work* and *Contract Documents*.
- .6 Verify field measurements and that affected adjacent work is coordinated.
- .7 Submittals not meeting specified requirements will be returned with comments.
- .8 Reproduction of construction *Drawings* to serve as background for *Shop Drawings* is permitted. If construction *Drawings* are used for this purpose, remove references to *Consultant*.
- .9 Do not propose Substitutions or deviations from *Contract Documents* via *Shop Drawing*, *Product* data and sample submittals.

1.2 SHOP DRAWINGS AND PRODUCT DATA

- .1 Indicate *Products*, methods of construction, and attachment or anchorage, erection diagrams, connections, explanatory notes and other information necessary for completion of the *Work*.
- .2 Where *Products* attach or connect to other *Products*, indicate that such items have been coordinated, regardless of Section under which adjacent items will be supplied and installed. Indicate cross-references to *Drawings*, *Specifications* and other already reviewed *Shop Drawings*.
- .3 The *Contractor* shall not use the term "by others" on *Shop Drawings* or other *Submittals*. The related trade, *Subcontractor* or *Supplier* shall be stated.
- .4 Certain Sections require the *Shop Drawings* and other *Submittals* to bear the seal and signature of a professional engineer. Such professional engineer must be

registered in the jurisdiction of the *Place of the Work* and shall have expertise in the area of practice reflected in the *Shop Drawings* and other *Submittals*.

- .5 Accompany submittals with a transmittal information including:
 - .1 Date.
 - .2 *Project* title and number.
 - .3 *Contractor's* name and address.
 - .4 Identification of each submittal item and quantity.
 - .5 Other pertinent data.

- .6 *Shop Drawing* submittals shall include:
 - .1 Date and revision dates.
 - .2 *Project* title and number.
 - .3 Name and address of:
 - .1 *Subcontractor*.
 - .2 *Supplier*.
 - .3 *Manufacturer*.
 - .4 *Contractor's* stamp, date, and signature of *Contractor's* authorized representative responsible for *Shop Drawing* review, indicating that each *Shop Drawing* has been reviewed for compliance with *Contract Documents* and, where applicable, that field measurements have been verified.
 - .5 Details of appropriate portions of the *Work* as applicable:
 - .1 Fabrication.
 - .2 Layout, showing dimensions, including identified field dimensions, and clearances.
 - .3 Fastening or anchorage details, if exposed to view, provide layout.
 - .4 Setting or erection details.
 - .5 Capacities.
 - .6 Performance characteristics.
 - .7 Standards.
 - .8 Operating weight.
 - .9 Wiring diagrams.
 - .10 Single line and schematic diagrams.
 - .11 Relationships to other parts of the *Work*.

- .7 *Product* data submittals shall include material safety data sheets (MSDS) for all controlled *Products*.

- .8 Submit one (1) electronic copy of *Shop Drawings* where specified in the technical *Specifications*.

- .9 Submit one (1) electronic copy of *Product* data sheets or brochures where specified in the technical *Specifications*.

- .10 Where a submittal includes information not applicable to the *Work*, clearly identify applicable information and strike out non-applicable information.

- .11 Supplement standard information to include details applicable to *Project*.

- .12 Allow five (5) *Working Days* for *Consultant's* review of each submittal and incorporate in submittals schedule specified in Section 01320 – Construction Progress Documentation. Allow additional two (2) *Working Days* where sub-*Consultant* or commissioning agent review is required.
- .13 If upon *Consultant's* review no errors or omissions are discovered, or if only minor corrections are required as indicated, submittal will be returned and fabrication or installation of *Work* may proceed.
- .14 If upon *Consultant's* review significant errors or omissions are discovered, a so noted copy will be returned for correction and resubmission. Do not commence fabrication or installation.
- .15 *Consultant's* notations on submittals are intended to ensure compliance with *Contract Documents* and are not intended to constitute a change in the *Work* requiring change to the *Contract Price* or *Contract Time*. If *Contractor* considers any *Consultant's* notation to be a change in the *Work*, promptly notify *Consultant* in writing before proceeding with the *Work*.
- .16 Resubmit corrected submittals through same procedure indicated above, before any fabrication or installation of the *Work* proceeds. When resubmitting, notify *Consultant* in writing of any revisions other than those requested by *Consultant*.

1.3 **SAMPLES**

- .1 Submit samples for *Consultant's* review in duplicate where specified in the technical *Specifications*. Label samples as to origin, *Project* name, and intended use.
- .2 Deliver samples prepaid to *Consultant's* business address.
- .3 Notify *Consultant* in writing of any deviations in samples from requirements of *Contract Documents*.
- .4 Where a required colour, pattern or texture has not been specified, submit full range of available *Products* meeting other specified requirements.
- .5 *Consultant* selection from samples is not intended to change the *Contract Price* or *Contract Time*. If a selection would affect the *Contract Price* or *Contract Time*, notify *Consultant* in writing prior to proceeding with the *Work*.
- .6 Resubmit samples as required by *Consultant* to comply with *Contract Documents*.
- .7 Approved sample will be returned as a single sample, marked "Approved".
- .8 Reviewed and accepted samples will establish the standard against which installed *Work* will be reviewed.
- .9 Large samples, samples requiring assembly or require evaluation at the *Place of the Work*, may be delivered to the *Place of the Work* with *Consultant* approval.

END OF SECTION

Part 1 General

GENERAL REQUIREMENTS

- .1 This Section is intended to describe method of cutting, fitting and patching required to complete the work or to make its many parts fit together properly. Refer to Section 01 00 05 for additional information
- .2 Notify Consultant of alteration which affects
 - .1 Structural Integrity
 - .2 Moisture or Air Barriers
 - .3 Fire Separations.
- .3 Execute cutting, fitting, and patching to complete the work and to make good all surface appearances to blend in with adjoining surfaces without blemish.
- .4 Fit parts together, to integrate and bond into with other work.
- .5 Remove and replace defective and non-conforming work.
- .6 Refer to Structural Drawings for lintels required for carrying building components above openings.
- .7 Inspect and acquaint oneself with knowledge of existing conditions, including elements subject to damage or movement during cutting and patching.
- .8 Beginning of cutting or patching means acceptance of existing conditions.

1.2. PATCHING

- .1 Use only compatible patching materials of the same or higher quality as the material being patched.

1.3. CUTTING

- .1 Execute cutting by the most suitable methods to avoid damage to other work, and which will provide proper surfaces to receive finishes.

1.4. FITTING

- .1 Fit together different parts of the work to create a consistent finished appearance.

1.5. PATCHING

- .1 Refinish patched surfaces to match adjacent surfaces. Provide control joints in continuous surfaces to terminate patching.

END OF SECTION

Part 1 General

1.1. RELATED WORK SPECIFIED ELSEWHERE

- .1 Refer to particular requirements for inspection testing to be carried out by a qualified testing laboratory as specified under various Sections.

1.2. APPOINTMENT AND PAYMENT

- .1 Unless otherwise specified, the Consultant will appoint the Testing and Inspection Agency on behalf of the Owner to carry out the inspection and testing specified in various Sections of the Specifications.
- .2 Where so specified, payment for the services of the Testing and Inspection Agency will be paid for by Cash Allowance – refer to Section 01 21 00.
- .3 The Contractor shall be responsible for and pay for the following:
 - .1 Inspection and testing required by laws, ordinances, rules, regulations, or orders of public authorities.
 - .2 Inspection and testing performed exclusively for the Contractor's convenience.
 - .3 Testing, adjustment and balancing of conveying systems, mechanical and electrical equipment, and systems.
 - .4 Mill tests and certificates of compliance.
 - .5 Tests specified to be carried out by the Contractor.
- .4 Where tests or inspections by designated testing laboratory reveal work not in accordance with contract requirements, Contractor shall pay costs for additional tests or inspections as Consultant may require, to verify acceptability of corrected work.

1.3. CONTRACTOR'S RESPONSIBILITIES

- .1 Furnish labour and facilities to:
 - .1 Provide access to work to be inspected and tested.
 - .2 Facilitate inspections and tests.
 - .3 Make good work disturbed by inspection and test.
 - .4 Provide storage on site for laboratory's exclusive use to store equipment and cure test samples.
- .2 Notify testing laboratory sufficiently in advance of operations to allow for assignment of laboratory personnel and scheduling of test.
- .3 Where materials are specified to be tested, provide representative samples in required quantity to testing laboratory.
- .4 Pay costs for uncovering and making good work that is covered before required inspection or testing is complete and approved by Consultant.

END OF SECTION

PART ONE - GENERAL

1.1 Related Sections

.1 The requirements of this Section apply to all other Sections of the specifications.

1.2 Use of Owner's Temporary Facilities

.1 Use of Owner's temporary facilities, such as portable ladders, work lights, extension cords, tools, etc. is prohibited. Contractor to provide all such items.

1.3 Installation and Removal

.1 Provide temporary construction facilities in order to execute work expeditiously.

.2 Maintain temporary facilities and plant in good operating order.

.3 Remove from site all such work after use.

1.4 Scaffolding

.1 Provide and maintain scaffolding, ramps, ladders, platforms, temporary stairs and other temporary access devices as required to complete the Work.

1.5 Hoisting

.1 Provide, operate and maintain hoists and cranes required for moving of workers, materials and equipment. Make financial arrangements with Subcontractors for use thereof.

.2 Hoists and cranes shall be operated by qualified operator.

1.6 Elevators

.1 Use of existing elevators to move personnel and materials prohibited without Owner's prior consent.

.2 Where elevator use is permitted, provide temporary protection to elevator finishes. Make good all damage arising from use of elevators.

1.7 Site Storage/Loading

.1 In accordance with CCDC 2 - 2008, GC 3.11.

.2 Confine work and operations of employees to limits indicated by Contract documents or where no limits shown on drawings, to immediate area of work. Do not unreasonably encumber premises with products.

.3 On-site storage of construction materials and equipment shall be kept to a minimum at all times. All materials being stored shall be protected by the Contractor from damage or loss and shall be repaired or replaced by the Contractor should damage or loss occur.

.4 Do not load or permit to load any part of work with a weight or force that will endanger the work, or any part of existing structures, components or elements.

.5 Do not store goods and materials within existing buildings except with Owner's prior permission. Materials are to be stored in a location and manner to cause the least interference with work activities, pedestrian or vehicular traffic.

.6 Where storage is not permitted within existing buildings, provide lockable sheds and trailers to store goods and materials. Pay parking costs associated with storage trailers.

.7 Determine with the Owner those locations that are suitable for receiving and storage of materials and equipment.

.8 All materials and equipment shall be kept in a secure area, at contractor's expense, or removed from the job site when work is not actually in progress.

1.8 Construction Parking

.1 Owner's available parking on Site. GC to coordinate with owner

.2 Owner's requirements take precedence over Contractor's use of site.

1.9 Security

.1 For unoccupied buildings, ensure that buildings are maintained locked at all times, except when doors are unlocked and continuously monitored by Contractor.

.2 For occupied buildings, cooperate with Owner's schedule of unlocking and locking. Maintain locking schedule unless otherwise directed by Owner. Continuously monitor all

Part 1 General

1.1. RELATED WORK

- .1 Hoarding and Protection due to the scope of work.

1.2. SHOP DRAWINGS

- .1 Indicate and describe in detail complete perimeter hoarding and sidewalk protection. Include all means of access/vehicular entrances.
- .2 Provide Shop Drawings to and obtain from, approval from both the Consultant and the authorities having jurisdiction. Make all revisions as required by these authorities at no additional cost to the Owner.

1.3. PERMITS AND FEES

- .1 Apply for, obtain, and pay for all necessary permits required by authorities having jurisdiction for the Work of this Section.

1.4. BY-LAWS

- .1 Comply with the By-laws of the City of Sarnia, and all others having jurisdiction over the Work of this Section including the Occupational Health and Safety Act and Regulations for Construction Projects.

Part 2 Products

2.1. MATERIALS – FOR INTERNAL BARRIERS

- .1 Plywood 13 mm minimum thickness Douglas Fir exterior grade plywood “B” or better for paint finish.
- .2 Structural Lumber: Rafters, posts, planking and bracing, N.L.G.A. No.2 grade minimum.
- .3 Waterproof Membrane: “Bituthene” Regular by W.R. Grace Materials Ltd., or approved alternative.

- .4 Exterior alkyd paint to approved manufacturer.
- .5 Interior fire-retardant paint to approved manufacturer.
- .6 Steel Studs: 0.55 mm thick, wipe coated galvanized, having knurled flanges 32 mm wide with edges doubled back at least 4.8 mm, with girts as required.
- .7 Gypsum Board: To meet specified requirements of CAN/CSA-A82.27-M91; **fire-rated board classified for hazard by ULC and labelled as such.**

2.2. CHAIN-LINK FENCING – FOR EXTERIOR SITE ENCLOSURES

- .1 Galvanized Link Fabric: 50 mm mesh, No. 9 gauge woven steel wire, zinc coated after weaving, to meet specified requirements of ASTM A392.
- .2 Tube: 90 mm diameter for end posts, 45 mm for top rail, 60 mm for line posts, standard, butt welded steel, galvanized, Schedule 40, to meet specified requirements of ASTM A120. Hollow metal structural steel tubing with minimum wall thickness of 0.100" and meeting specified requirements of CSA G40.21, Grade 50W.
- .3 Tension Wire: No. 6 gauge single strand, finished to match fabric.
- .4 Fabric Bands: Galvanized steel to fit tubing.
- .5 Rail Fittings: Galvanized steel for caps, top tails guides.
- .6 Galvanizing: Galvanize fittings, accessories, and steel tube by hot dip method after fabrication to meet specified requirements of CSA Standard G164.
- .7 Approved Manufacturers: Frost Fencing, Lundy Steel Fencing, Donald Greening or other approved alternate. Materials need not be new; however, they must be able to remain in place and perform as required for the duration of the Project.
- .8 Fence Height: 1830 mm high unless noted otherwise.
- .9 **Commercially available temporary construction fencing may be approved at the direction of the Architect.**

Part 3 Execution

3.1. FABRICATION AND INSTALLATION

.1 Hoarding:

- .1 Install hoarding, fencing and sidewalk protection to the exterior of the building in accordance with approved Shop Drawings and By-laws of the City of Sarnia, and in accordance with documents.
- .2 Provide posts, planking and plywood.
- .3 Provide pedestrian and vehicular entrances as required, complete with swing or sliding gates, screened openings and all necessary hardware including locks.
- .4 Paint complete hoarding in colour selected by Consultant.
- .5 Maintain hoarding in good condition at all times.
- .6 Repair any hoarding removed or damaged, to satisfaction of the Consultant and authorities.
- .7 Wash all hoarding at least every two months.
- .8 Remove hoarding and fencing from site only when authorized by the Consultant.

.2 Barrier:

- .1 Install barrier within the existing building to separate a work area from the remainder of the building.
- .2 Barrier shall be erected such that it is self-supporting and braced on work area side.
- .3 Erect a barrier of one-hour fire-rated drywall construction and to meet the requirements of Section 09250 and ULC Design No. W408 or W409.
- .4 Barrier shall not allow for the passage of airborne dust.

- .5 Maintain minimum clearance for exits and access to exits.
- .6 Relocate, temporarily, any existing life safety devices which may become hidden or obscure due to the erection of barrier.
- .7 Maintain barriers in good, stable condition at all times.
- .3 Chain Link Fencing:
 - .1 Posts shall be spaced at 3000 mm on centre maximum and shall be driven into the ground a minimum of 1200 mm deep.
 - .2 Install at 40 mm above grade, a single strand of tension wire with turnbuckles at each end.
 - .3 Install at top of fabric, a 45 mm diameter top rail with appropriate caps and holders.
 - .4 Install fabric under tension under anchor to the posts, top rail and bottom tension wire at 450 mm on centre.
 - .5 At end posts, attach fabric and 6 mm x 19 mm tension bands at 300 mm on centre.
 - .6 Provide a 45 mm diameter brace between end posts at mid height.
 - .7 At completion of project, completely remove temporary fencing and patch all disturbed areas to match existing.
 - .8 All fencing and components will remain the property of the Contractor.

3.2. EXCEPTION

- .1 Temporary/movable perimeter fencing barriers for site work may be approved by the Consultant where construction activities require staged construction perimeters.
- .2 Where permanent hoarding is not specifically indicated, provide safety fencing at perimeter of property adjacent of streets and adjacent residential properties, separating public access areas from the work site, where no other barrier is present.

END OF SECTION

Part 1 General

1.1. GENERAL

- .1 This section is intended to include criteria for and requirements of the final completion of the Contract.
- .2 Conform to OAA/OGCA Take-Over Procedures Document No. 100, latest edition.

1.2. FINAL CLEANING

- .1 When the Work is substantially performed, remove surplus products, tools, construction machinery and equipment not required for the performance of the remaining Work.
- .2 Remove waste products and debris. Dust, mop, and vacuum clean all surfaces before the inspection process commences. Clean and polish removing stains, spots, marks and dirt from glass, mirrors, hardware, wall tile, stainless steel, chrome, porcelain enamel, baked enamel, plastic laminate, mechanical and electrical fixtures. Replace broken, scratched, or disfigured glass.
- .3 Broom clean and wash exterior walks, steps, and surfaces. Rake clean other surfaces of grounds. Sweep and wash clean site paved areas. Remove dirt and other disfigurements from exterior surfaces.

1.3. PROCEDURE

- .1 Upon written notification from the General Contractor that the Project has reached Substantial Performance together with a copy of their own inspection lists showing all Work is completed, the Consultant will make a comprehensive deficiency inspection, and provide a deficiency list to the General Contractor, unless in the Consultant's opinion, the Project is not substantially complete.
- .2 Upon written notification from the General Contractor that all items in the deficiency list have been completed, the Consultant will inspect the Work with the Superintendent and provide the General Contractor with a re-inspection list if any items are outstanding, including any new deficiencies resulting from the correction of the original list.
- .3 Within 10 working days of the second inspection, the Consultant will make a final inspection of the Work and provide the General Contractor with a final deficiency list if any items are outstanding. If so, the Owner will have the right to provide the General Contractor with 5 days' notice, complete the outstanding Work, on a time and material basis and deduct the cost of completion from the balance owing the Contractor.
- .4 Until **ALL** deficiencies are completed, the final month's operation cost, as determined in Section 01005 General Instructions, item 1.11.3 Cost Breakdown will be withheld from the General Contractor, in addition to costs for specific items.

END OF SECTION

Part 1 General

1.1. SECTION INCLUDES

- .1 As-built, samples, and specifications
- .2 Equipment and systems
- .3 Product data, materials and finishes, and related information.
- .4 Operation and maintenance data
- .5 Spare parts, special tools, and maintenance materials
- .6 Warranties and bonds
- .7 Final site survey

1.2. RELATED SECTIONS

- .1 Section 01 31 10 – Project Coordination

1.3. SUBMISSION

- .1 Prepare instructions and data by personnel experienced in maintenance and operation of described products.
- .2 Two weeks prior to Substantial Performance of the Work, submit to the Consultant one copy of operating and maintenance manuals.
- .3 Ensure spare parts, maintenance materials and special tools provided are new, undamaged, or defective, and of same quality and manufacture as products provided in Work.
- .4 If requested, furnish evidence as to type, source and quality of products provided.

- .5 Defective products will be rejected, regardless of previous inspections. Replace products at own expense.
- .6 Pay costs of transportation.
- .7 Provide two hard copies (three ring binder) + soft copy in UDB drive of final manuals incorporating Consultant's comments.
- .8 An amount of 1.5% of the contract (completion retention) will be withheld from the final progress payment until complete submittals required in this Section are received and accepted by the Consultant. For M&E retention refer to M&E specs in the drawings

1.4. FORMAT

- .1 Organize data in the form of an instructional manual.
- .2 Binders: Vinyl, hard covered, 3 'D' ring, loose leaf 219 x 279 mm with spine and face pockets
- .3 When multiple binders are used, correlate data into related consistent groupings. Identify contents of each binder on spine.
- .4 Cover: Identify each binder with type or printed title 'Project Record Documents'; list title of project and identify subject matter of contents.
- .5 Arrange content by Section numbers and sequence of Table of Contents.
- .6 Provide tabbed fly leaf for each separate product and system, with typed description of product and major component parts of equipment.
- .7 Text: Manufacturer's printed data, or typewritten data
- .8 Drawings: Provide with reinforced punched binder tab. Bind in with text; fold larger drawings to size of text pages.
- .9 Provide AutoCAD files of all in .dwg format on USB drive discs.

- .10 Provide all Close-out manuals (Site Meeting Minutes, Bulletins, Change Directives, Change Orders, Site Instructions, As-Built, etc.) on flash drive.

1.5. CONTENTS – EACH VOLUME

- .1 Table of Contents: Provide title of project:
 - .1 Date of submission
 - .2 Names, addresses and telephone numbers of Consultant and Contractor with name of responsible parties.
 - .3 Schedule of products and systems indexed to content of volume.
- .2 For each product or system:
 - .1 List names, addresses and telephone numbers of subcontractors and suppliers, including local source of supplies and replacement parts.
 - .3 Product Data: Mark each sheet to clearly identify specific products and component parts, and data applicable to installation; delete inapplicable information.
 - .4 Drawings: Supplement product data to illustrate relations of component parts of equipment and systems, to show control and flow diagrams.
 - .5 Typewritten Text: As required to supplement product data. Provide logical sequence of instructions for each procedure, incorporating manufacturer's instructions.
 - .6 Training: Schedule training of Owner's representatives on all systems, at the Owner's convenience.

1.6. AS-BUILT DRAWINGS AND SAMPLES

- .1 In addition to requirements in General Conditions, maintain at the site for Consultant one record copy of:
 - .1 Contract Drawings

- .2 Specifications
 - .3 Addenda
 - .4 Change Orders and other modifications to the Contract.
 - .5 Reviewed shop drawings, product data, and samples.
 - .6 Field test records
 - .7 Inspection certificates
 - .8 Manufacturer's certificates
-
- .2 Store record documents and samples in field office apart from documents used for construction. Provide files, racks, and secure storage.
 - .3 Label record documents and file in accordance with Section number listings in List of Contents of this Project Manual. Label each document "PROJECT RECORD" in neat, large, printed letters.
 - .4 Maintain record documents in clean, dry, and legible condition. DO not use record documents for construction purposes.
 - .5 Keep record documents and samples available for inspection by Consultant.
 - .6 Upon completion of project, provide AutoCAD files of all as-built drawings in .dwg format on USAB drive.

1.7. RECORD ACTUAL SITE CONDITIONS

- .1 Record information on set of drawings, provided by Consultant.
- .2 Provide felt tip marking pens, maintaining separate colours for each major system, for recording information.
- .3 Record information concurrently with construction progress. Do not conceal Work until required information is recorded.

- .4 Contract Drawings and Shop Drawings: Legibly mark each item to record actual construction, including:
 - .1 Measured depths of elements of foundation in relation to finish first floor datum.
 - .2 Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
 - .3 Measured locations of internal utilities and appurtenances, referenced to visible and accessible features of construction.
 - .4 Field changes of dimension and detail
 - .5 Changes made by Change Orders.
 - .6 Details not on original Contract Drawings
 - .7 References to related Shop Drawings and modifications
- .5 Specifications: Legibly mark each item to record actual construction, including:
 - .1 Manufacturer, trade name, and catalogue number of each product actually installed particularly optional items and substitute items.
 - .2 Changes made by Addenda and change orders.
- .6 Other Documents: Maintain manufacturer's certifications, inspection certifications, field test records, required by individual specifications sections.

1.8. EQUIPMENT AND SYSTEMS

- .1 Each Item of Equipment and Each System: Include description of unit or system and component parts. Give function, normal operation characteristics, and limiting conditions. Include performance curves, with engineering data and tests, and complete nomenclature and commercial number of replaceable parts.
- .2 Panel Board Circuit Directories: Provide electrical service characteristics, controls, and communications.

- .3 Include installed colour-coded wiring diagrams.
- .4 Operating Procedures: Include start-up, break-in, and routine normal operating instructions and sequences. Include regulation, control, stopping, shutdown, and emergency instructions. Include summer, winter, and any special operating instructions.
- .5 Maintenance Requirements: Include routine procedures and guide for troubleshooting; disassembly, repair, and reassembly instructions; and alignment, adjusting, balancing, and checking instructions.
- .6 Provide servicing and lubrication schedule, and list of lubricants required.
- .7 Include manufacturer's printed operation and maintenance instructions.
- .8 Include sequence of operation and maintenance instructions.
- .9 Provide original manufacturer's parts list, illustrations, assembly drawings, and diagrams required for maintenance.
- .10 Provide installed control diagrams by controls manufacturer.
- .11 Provide Contractor's coordination drawings, with installed colour-coded piping diagrams.
- .12 Provide charts of valve tag numbers, with location and function of each valve, keyed to flow and control diagrams.
- .13 Provide list of original manufacturer's spare parts, current prices, and recommended quantities to be maintained in storage.
- .14 Include test and balancing reports.
- .15 Additional Requirements: As specified in individual specification sections.

1.9. MATERIALS AND FINISHES

- .1 Building Products, Applied Materials, and Finishes: Include product data, with catalogue number, size, composition, and colour and texture designations. Provide information for re-ordering custom manufactured products.

- .2 Instructions for cleaning agents and methods, precautions against detrimental agents and methods, and recommended schedule for cleaning and maintenance.
- .3 Moisture-protection and Weather-exposed Products: Include manufacturer's recommendations for cleaning agents and methods, precautions against detrimental agents and methods, and recommended schedule for cleaning and maintenance.
- .4 Additional Requirements: As specified in individual specifications sections.

1.10. SPARE PARTS

- .1 Provide spare parts, in quantities specified in individual specification sections.
- .2 Provide items of same manufacture and quality as items in Work.
- .3 Deliver to site, place, and store.
- .4 Receive and catalogue all items. Submit inventory listing to Owner. Include approved listings in Maintenance Manual.
- .5 Obtain receipt from Owner for delivered products and submit prior to final payment.

1.11. MAINTENANCE MATERIALS

- .1 Provide maintenance and extra materials, in quantities specified in individual specification sections.
- .2 Provide items of same manufacture and quality as items of Work.
- .3 Deliver to site, place, and store.
- .4 Receive and catalogue all items. Submit inventory listing to Owner. Include approved listings in Maintenance Manual.
- .5 Obtain receipt from Owner for delivered products and submit prior to final payment.

1.12. SPECIAL TOOLS

- .1 Provide special tools, in quantities specified in individual specification section.
- .2 Provide items with tags identifying their associated function and equipment.
- .3 Deliver to site location as directed, place and store.
- .4 Receive and catalogue all items. Submit inventory listing to Owner. Include approved listings in Maintenance Manual.

1.13. STORAGE, HANDLING AND PROTECTION

- .1 Store spare parts, maintenance materials, and special tools in manner to prevent damage or deterioration.
- .2 Store in original and undamaged condition with manufacturer's seal and labels intact.
- .3 Store components subject to damage from weather in weatherproof enclosures.
- .4 Store paints and freezable materials in a heated and ventilated room.
- .5 Remove and replace damaged products at own expense and to satisfaction of Owner

1.14. WARRANTIES AND BONDS

- .1 Separate each warranty or bond with index tab sheets keyed to Table of Contents listing.
- .2 List subcontractor, supplier, and manufacturer, with name, address, and telephone number of responsible Principal.
- .3 Obtain warranties and bonds, executed in duplicate by subcontractors, suppliers, and manufacturers, within ten days after completion of the applicable item of work.
- .4 Except for items put into use with Owner's permission, leave date of beginning of time of warranty until the Date of Substantial Performance is determined.
- .5 Verify that documents are in proper form, contain full information, and are notarized.
- .6 Co-execute submittals when required.
- .7 Retain warranties and bonds until time specified for submittal.

END OF SECTION

Part 1 General

1.1. RELATED SECTIONS

- .1 Comply with Division 01 as applicable.
- .2 Restrictions on noise, dust, interference obstructions, access, hours of work: Section 01 00 05.
- .3 Temporary facilities, public safety, weather and dust barriers or partitions: Section 01 56 00
- .4 General Instructions Section 01 50 00 Temporary Facilities.
- .5 Work described in Division 15 and 16.
- .6 The requirements of this Section apply to all other Sections of the specifications.

1.2. REFERENCES

- .1 CSA S350-M1980, Code of Practice of Safety in Demolition of Structures.

1.3. EXISTING CONDITIONS

- .1 Examine areas to be selectively demolished or dismantled and confirm that their condition is substantially the same as the date on which bids closed, and as indicated in the Contract Documents. Advise the Consultant of any conditions that vary from this.
- .2 Be familiar with structural system of the building and the elements being demolished or dismantled.
- .3 Inspect site and verify with Consultant items designated for removal and items to remain. Protect existing items designated to remain and materials designated for salvage. In event of damage to such items, immediately replace or make repairs to approval of Consultant and at no cost to Owner.
- .4 Demolition of spray or trowel-applied asbestos can be hazardous to health. Should material resembling spray or trowel-applied asbestos be encountered in the course of demolition work, stop work and notify the Consultant immediately. Do not proceed until written instructions have been received from the Consultant.

- .5 Demolition of applied asbestos materials can be hazardous to health. Should material resembling asbestos be encountered in the course of demolition work, stop work and notify the Consultant immediately. Do not proceed until written instructions have been received from the Consultant.

1.4. EXTENT OF DEMOLITION

- .1 Drawings showing extent of selective demolition are intended to be schematic and do not indicate full extent of all selective demolition work. Examine all Documents to determine complete scope of selective demolition, removals and re-instatement, repair and make good required to complete the Work.

1.5. PROTECTION

- .1 Prevent movement, settlement or damage of existing structures, services, walks, paving, trees, landscaping, adjacent grades, and parts of existing building to remain.
- .2 Provide bracing, shoring, and underpinning as required. Make good damage caused by demolition.
- .3 Take precautions to support affected structures and, if safety of building being demolished appears to be endangered, cease operations and notify Consultant.
- .4 Prevent debris from blocking surface drainage system, elevators, mechanical and electrical systems which must remain in operation.
- .5 Provide bracing, shoring, or needling as required to support portions of existing structure or building to remain, where demolition or dismantling, cutting out, or partial removal of any elements, as specified in other Sections degrades the structural integrity of the structure to a point where it will not support all imposed loads. All bracing, shoring, and needling shall be designed to cause no damage to existing surfaces upon which the bracing, shoring or needling bears.
- .6 Shoring, bracing, or needling of structural items shall be designed by a Professional Engineer registered in the province of Ontario, and drawings shall bear the seal of this Engineer. Submit drawings of shoring, bracing, or needling to the Consultant prior to installing.
- .7 Maintain temporary supports in place until permanent structure is able to fully support all imposed loads.

- .8 Make good damage to existing elements to remain caused by demolition.
- .9 Prevent debris from blocking surface drainage system and obstructing mechanical and electrical systems which must remain in operation.
- .10 Protect salvaged elements from damage. Provide protective coverings and storage.

Part 2 Products

Not Used

Part 3 Execution

3.1.WORK

- .1 Dispose of demolished materials except where noted otherwise and in accordance with authorities having jurisdiction and in accordance with Section 01000 of the Specifications.
- .2 Remove materials and equipment as indicated in the documents. Salvage, and store, protect, and reinstall to suit execution of other parts of the Work as indicated in the documents.
- .3 Items for Demolition: Refer to drawings for specific details.
 - .1 Portions of existing terrazzo floor, VCT and sheet flooring.
 - .2 Door openings in walls, bulkheads, overhead lintels, portions of masonry walls.
 - .3 Miscellaneous plumbing, mechanical and electrical items.
 - .4 All other elements required to allow the Work to be completed, whether specifically indicated, or not.
- .4 Carefully dismantle items containing materials for salvage and stockpile salvaged materials on site at locations as indicated or as directed by Consultant.
- .5 Temporarily re-route service lines entering building or on the building in accordance with authorities having jurisdiction, and to suit the Work of this Contract. Post warning signs on electrical lines and equipment that must remain energized during period of work.
- .6 Do not disrupt active or energized utilities designated to remain undisturbed, without Consultant's consent.

- .7 Reference the demolition of specific Mechanical and Electrical as documented in drawings and specifications.

3.2. SAFETY CODE

- .1 Comply with all applicable legislation.

3.3. DISMANTLING AND DEMOLITION

- .1 Do all work in a manner to prevent endangering safety of building or occupants.
- .2 Selectively dismantle parts of the building as required to suit installation of new work and remedial work. Salvage and reinstall elements unless otherwise indicated. Make good, disturbed surfaces.
- .3 Remove existing equipment, services, and obstacles where required for refinishing or making good of existing surfaces and replace as work progresses.
- .4 Do not disturb adjacent items designated to remain in place.
- .5 At end of each day's work, leave work in safe condition so that no part is in danger of toppling or falling. Protect interiors of parts not to be demolished from exterior elements at all times.
- .6 Demolish to minimize dusting. Keep materials wetted as directed by Consultant.
- .7 Do not throw or allow debris to fall uncontrolled from heights. Use chutes and other controls.

3.4. RESTORATION

- .1 Upon completion of work, remove debris, trim surfaces, and leave work site clean.
- .2 Reinststate areas and existing works outside of demolition to conditions that existed prior to commencement of work.

END OF SECTION

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|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 05 50 00 | Metal Fabrications | |
| 05 50 00.11 | Related Work | |
| | Cast-in-place Concrete | Section 03 30 00 |
| | Masonry Procedures | Section 04 00 00 |
| | Painting | Section 09 90 00 |
| 05 50 00.12 | Work Supplied for Installation Under Other Sections | |
| .1 | Supply following materials specified to be installed under other Sections of these project specifications: | |
| .1 | Anchor bolts, stud anchors, bearing plates, truss shoes, angles, channels, sleeves, and other inserts to be built into concrete and masonry elements and required for anchorage and support of fabricated steel components. | |
| .2 | Fabricated steel components to be built into concrete and masonry. | |
| .2 | Supply instructions and templates as required for accurate setting in inserts and components. | |
| .3 | Custom metal fabricators shall include, but not be restricted to the following: | |
| .1 | pipe handrails and balustrades | |
| .2 | pipe railings and supports | |
| .3 | steel connections for wood beams and framing | |
| .4 | sump pit cover plates and sills | |
| .5 | bollards | |
| .6 | vanity supports | |
| .7 | lintel angles for masonry construction | |
| .8 | miscellaneous steel angles and channels | |
| .9 | miscellaneous ladders | |
| .10 | Steel Stairs And Landings | |
| 05 50 00.13 | Reference Standards | |
| .1 | Do welding work in accordance with the current issue of CSA W59-1984 unless specified otherwise. | |
| 05 50 00.14 | Shop Drawings | |
| .1 | Submit shop drawings in accordance with Section 01 23 33 | |
| 05 50 00.21 | Materials | |
| .1 | Steel sections and plates: to CAN3-G40.21-M81, Grade [300W], [350W]. | |
| .2 | Steel pipe: to ASTM A53-84a standard weight, galvanized finish. | |
| .3 | Welding materials: to CSA W59-1984. | |
| .4 | Bolts and anchor bolts: to ASTM A307-84a. | |
| .5 | Galvanizing: hot dipped galvanizing with zinc coating [600] g/sm to CSA GI64-M1981. | |
| .6 | Shop coat primer: to CGSB 1-GP-40M. | |
| .7 | Zinc primer: zinc rich, ready mix to CGSB 1-GP-181M+Amdt-Mar-78. | |
| .8 | Grout: non-shrink, non metallic, flowable, 24h, MPa 15, pull out strength 7.9 MPa. | |

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- 05 50 00.22 Fabrication
- .1 Fabricate work square, true, straight and accurate to required size, with joints closely fitted and properly secured.
 - .2 Use self tapping shake proof round headed screws or as indicated. Use screws for interior metal work. Use welded connections for exterior metal work unless otherwise approved by Architect.
 - .3 Where possible, fit and shop assemble work, ready for erection.
 - .4 Ensure exposed welds are continuous for length of each joint. File or grind exposed welds smooth and flush. Seal exterior steel fabrications to provide corrosion protection in accordance with CAN3-S16.1-M84.
- 05 50 00.23 Shop Painting
- .1 Apply one shop coat of primer to metal items, with exception of galvanised or concrete encased items.
 - .2 Use primer unadulterated, as prepared by manufacturer. Paint on dry surfaces, free from rust, scale, grease. Do not paint when temperature is lower than 7 degrees C.
 - .3 Surfaces to be field welded; do not paint.
- 05 50 00.24 Angle Lintels
- .1 Steel angles: galvanized, sizes indicated for openings. Provide 150mm minimum bearing at ends.
 - .2 Weld or bolt back to back angles to profiles as indicated.
- 05 50 00.25 Pipe Railings and Guards
- .1 Steel pipe: 38 mm (1 1/2") nominal outside diameter, formed to shapes and sizes as indicated.
 - .2 Pickets: 19mm diameter solid steel.
 - .3 Galvanize external pipe railings after fabrication.
 - .4 Set railing standards in concrete. Grout to fill insert. Trowel surface smooth and flush with adjacent surfaces.
- 05 50 00.26 Access Ladders
- .1 Stringers: 75 x 38 x 06 mm thick steel angle.
 - .2 Rungs: 50 x 38 x 06 mm thick angle welded to stringers at 300 mm on centre.
 - .3 Brackets: sizes and shapes as indicated, weld to stringers at 600 mm on centre, complete with fixing anchors.
 - .4 Galvanize finish for exterior, prime paint for interior.
 - .5 Galvanize exterior ladders after fabrication.
- 05 50 00.27 Bollards
- .1 200 mm diameter concrete filled, rounded cap.
 - .2 Paint finish exposed portion with zinc rich paint.
 - .3 Locations as indicated on drawings.
- 05 00 00.28 Steel Stairs And Landings

- .1 Refer to sections and details shown on structural and architectural drawings.
- .2 Steel stairs shall be constructed of plate, angle and channel stringers and sheet steel treads and risers formed as shown, one piece for tread and riser supported on shelf angles. Landings shall be of 3 mm (1/8") plate on channel and tee supports at not over 550 mm (22") centers.
- .3 All stringers shall be as per details and shall include all returns and finishing pieces.
- .4 Stair treads and risers shall be perfectly flat and uniform and worked to suit conditions throughout with allowance for concrete toppings by General Contractors. Finished riser height must be maintained at landings and finished floor levels.
- .5 The entire structure shall be assembled in the most substantial manner and shall be welded rigid.
- .6 Steel stairs and landings shall be connected to and supported from the structure of the building.
- .7 The stairs and landings shall be designed to support a live load of 4800 N/m²
- .8 Submit shop drawings, sealed and signed by a professional engineer registered in Ontario, to the consultant for review, detailing stairs, landings, guards, ladders and handrails, connections and attachment to the building structure. The review drawings shall be followed for installation of the work. The engineer who signed and sealed the shop drawings shall inspect the installation and shall assume full responsibility for the entire installation

05 50 00.31 Erection

- .1 Erect metal work square, plumb, straight, and true, accurately fitted, with tight joints and intersections.
- .2 Provide suitable means of anchorage acceptable to Architect such as dowels, anchor clips, bar anchors, expansion bolts and shields and toggles.
- .3 Make field connections with high tensile bolts to CAN3-S16.1-M84, or weld.
- .4 Hand items over for casting into concrete or building into masonry to appropriate trades together with setting templates.
- .5 Touch up rivets, field welds, bolts and burnt or scratched surfaces after completion of erection with primer.
- .6 Touch up galvanized surfaces with zinc rich primer where burned by field welding.

END OF SECTION

Part 1 General

1.1. DESCRIPTION

.1 General Requirements:

.1 Division 1 and General Requirements is a part of this Section and shall apply as if repeated here.

.2 Work Related to this Section Performed by Other Sections:

.1 Section 06 20 00: Finish Carpentry

.3 Installation of Work Supplied by this Section, Specified in Other Sections:

.1 Section 04 20 00: To install bolts, inserts, etc.

1.2. QUALITY ASSURANCE

.1 Requirements of Regulatory Agencies:

.1 Mark each piece of wood, which is rated non-combustible by fire retardant pressure treatment, with ULC Fire Hazard Classification label.

1.3. REFERENCES

.1 Reference Standards:

.1 Grade lumber in accordance with rules and regulations of the National Lumber Grades Authority.

.2 Dimensions of lumber shall conform to dressed sizes specified in CSA Standard O141-91.

.3 Reference standards quoted in Contract Documents refer to:

ASTM E84-81a, Test for Surface Burning Characteristics of Building Materials
CAN/CSA O80 Series M89, Wood Preservation
CAN/CSA)141-91, Softwood Lumber
CSA Standard B111-1974, Wire Nails, Spikes and Staples
CSA Standard)121-M1978, Douglas Fir Plywood

1.4. SITE CONDITIONS

.1 Environmental Conditions:

- .1 When it is required that wood maintain dimensional stability and tolerances to ensure accurate installation of later work, store and install it only in dry areas, and where no further installation of moist materials is contemplated.

Part 2 Products

2.1. MATERIALS

.1 For lumber and fastenings, conform to Ontario Building Code, Section 4.3.

.2 Grade mark lumber by the appropriate association under authority of the National Lumber Grades Authority.

.3 Moisture content of lumber at time of building-in shall not exceed 19%.

.4 Lumber:

- .1 Spruce-Pine-Fir Species Group Designation, framing lumber, with no more than 15% of next lesser of specified grade included.

- .2 For utility Use Where Concealed: sound and free of imperfections or deficiencies making unsuitable for use.

.5 Plywood:

- .1 Douglas Fir, in conformance with CSA Standard 0121-M1978

- .2 For utility use: Unsanded Sheathing Grade

.6 Nails, Spikes and Staples:

- .1 In conformance with CSA Standard B111-1974; galvanized at exterior locations, at interior high humidity locations and for treated lumber; plain finish elsewhere. Use spiral shank nails generally.

.7 Fasteners:

- .1 To hollow masonry use toggle bolts; to solid masonry and concrete use expansion shields and lag bolts; to steel use bolts or welded stud fasteners. Use lead or inorganic fibre plugs for fasteners in concrete and masonry. Provide washers at bolt heads and nuts. Galvanize fasteners at exterior locations, at high humidity interior locations and for treated lumber.

.8 Wood Preservative:

- .1 Copper naphthenate or pentachlorophenol solution to meet specified requirements of CSA Standard O80.

.9 Dampproof Membrane:

- .1 0.051 mm polyethylene film

Part 3 Execution

3.1. INSTALLATION

.1 General:

- .1 Lay out items installed by this Section carefully and to accommodate requirements of other Sections. Cut and fit members accurately; erect them in position indicated by Drawings; align, level, square, plumb, and secure them permanently in place. Brace work temporarily as required. Join members only over solid backing.
- .2 Bore holes true to line and to same size as bolts. Drive bolts into place for snug fit, and use plates and lag screws tightly when installed, and again just before being concealed by other installations or at completion of the work.
- .3 Cooperate with other Sections to ensure that unity of actions will ensure orderly progress to meet construction schedule.
- .4 Supply anchors, bolts, and inserts, required for installations of this Section, to those performing the work of other Sections and who are responsible for their installation.

- .5 Include rough hardware such as nails, bolts, nuts, washers, screws, clips, hangers, connectors, and strap iron required for installations by this Section; and for all operating hardware required by this Section for temporary use.
- .6 Do not attach installations of this Section by wood plugs or blocking in concrete or masonry. Use lead shields, expansion shields, concrete nails, or similar methods only as approved.
- .2 **Blocking, Nailers, Strapping, Furring, Grounds & Miscellaneous Rough Framing:**
 - .1 Do not regard nailers, blocking, and such other fastening provisions as shown on drawings as exact or complete. Install required provisions for fastening, located, and secured to suit site conditions, and adequate for intended support.
 - .2 Cut members into lengths as long as practicable and with square ends.
 - .3 Install rough bucks for opening jambs, heads, and sills of minimum nominal 38 mm thickness, and of width of casings or as otherwise indicated. Set bucks plumb, level, and anchored securely in place.
 - .4 Verify that grounds required for fastening of components and equipment are located correctly, and that they provide adequate support.
 - .5 For general strapping, set preservative treated nominal 19 mm x 38 mm wood strips vertically and spaced at 400 mm o.c., unless otherwise indicated. Shim to provide a true face plane. Install intermediate horizontal strapping at all joints to wall finishes applied over grounds.

3.2. ADJUSTMENT

- .1 Ensure that bolted fasteners are drawn up tightly.

END OF SECTION

PART 1 - GENERAL

.1 Description

.1 General Requirements

Division 1 and General Requirements, is a part of this Section and shall apply as if repeated here.

.2 Work Performed by Other Sections Related to This Section

Section 06100: Rough Carpentry
Section 06410: Casework
Section 09910: Painting

.2 References

- .1 Conform to CSA Standard 0141-91 for dressed dimensions of wood members.
- .2 Reference standards quoted in Contract Documents refer to:
ASTM E84-81a, Test for Surface Burning Characteristics of Building Materials.
CAN3-O188.1-M78, Interior Mat-Formed Wood particleboard
CAN/CSA-A172-M79, High Pressure, Paper Base, Decorative Laminates
CAN/CSA-O80 Series-M89, Wood Preservation
CAN/CSA-O141-91, Softwood Lumber
CSA Standard O115-1982, Hardwood Plywood
CSA Standard O121-M1978, Douglas Fir Plywood
CSA Standard O151-M1978, Canadian Softwood Plywood
CSA Standard O153-M1980, Poplar Plywood
CGSB Specification 11-GP-3M, Hardboard
- .3 Fabricate millwork as specified in Finish Carpentry Schedule to meet specified requirements of Custom Quality Standard of either:
: AWI Specification, Architectural Woodwork Quality Standards and Guide Specifications, 1973, by Architectural Woodwork Institute, or
: AWMAC Specification, Quality Standards for Architectural Woodwork of the Architectural Woodwork Manufacturers Association of Canada, Seventh Edition, 1984.

.3 Submittals

.1 Shop Drawings

Submit detailed shop drawings of all millwork and finished carpentry items.

.2 Samples

Submit samples of each specified finish wood species, and in each cut if requested.

.4 Delivery, Storage and Handling

- .1 Protect materials from damage during handling, delivery, and storage.
- .2 Receive finish hardware supplied by Section 08710 and store, secure against theft.

- .3 Do not deliver wood materials to site until storage areas are completed, and conditions are such that no damage will occur to them while in storage and during installation.

.5 **Site Conditions**

.1 **Environmental Requirements**

Ensure that relative humidity in areas where wood materials are stores and installed does not exceed 55%.

.6 **Warranty**

.1 **Extended Warranty**

Warranty installation specified in this Section covering the period for one (1) year beyond the expiration of the warranty period specified in the General Conditions to the Contract.

PART 2 - PRODUCTS

.1 **Materials**

.1 **General**

- .1 Provide rough hardware required for finish carpentry specified in this Section. Use non-corrosive hardware at exterior locations.
- .2 Moisture content of wood at time of installation shall be for interior locations at an average of 7%, with a permitted range of individual pieces of 5% to 9%; and for exterior locations at an average of 12%, with a permitted range in individual pieces of 10% to 15%.
- .3 Use only adhesive and fastenings that develop sufficient strength for intended use, are non staining, and are unaffected by the environment to which exposed.

.2 **Wood**

- .1 Grade mark softwood and hardwood lumber by the appropriate association under authority of the National Lumber Grades Authority.
- .2 Where not exposed to view, use wood of grades suitable for fabrication, utility and structural needs.
- .3 Where exposed to view, use Appearance Grade wood for structural lumber, as otherwise specified. Meet requirements of specified AWI or AWMAC Quality Grade Standard, where applicable.
- .4 Ensure that surfaces exposed to view and given a natural or stained finish are free from markings and stains caused by milling, treatment, storage, handling and other causes.
- .5 Ensure that veneered panels, and solid finger jointed and edge laminated members, where admissible for incorporation as approved, are matched for grain configuration and uniformity of colour throughout all surfaces exposed to view which are to receive a natural or stained finish.

.3 **Plywood**

- .1 Douglas Fir; To meet specified requirements of CSA Standard O121-M1978; Sanded Grade, Good Two Sides where both sides are exposed to view, and Good One Side where only one side is exposed to view.
- .2 Softwood: To meet specified requirements of CSA Standard O151-M1978, Sanded Grade, Solid Two Sides where both sides are exposed to view, and Good One Side where only one side is exposed to view.
- .3 Hardwood: To meet specified requirements of CSA Standard O115-M1978 veneer core, Type II, smooth sanded, rotary cut face veneers, Good Grade where exposed to view and Sound Grade where not.
- .4 Poplar: To meet specified requirements of CSA Standard O153-M1980.
- .5 Birch: Rotary cut Select Grade veneer where transparent or clear finish specified.

.4 **Particleboard**

To meet specified requirements of CAN/CSA-O188.1-M78, Grade S.

.5 **Plastic Laminate**

To meet specified requirements of CAN/CSA-A172-M79.

- .1 Colour: Selected from manufacturer's standard solid colour range.

.6 **Hardboard**

To meet specified requirements of CGSB Specification 11-GP-3, Type 2.

.7 **Fire Retardant Treatment**

Pressure treat lumber in accordance with CSA Specification O80 Series-M89, C20 and plywood with O80 Series-M89 C27, or to ULC Specifications; to ensure a flame spread rating of less than 25 when tested in accordance with ASTM Standard E84.

.8 **Wood Preservative**

Clear pentachlorephenol, to meet specified requirements of CSA Standard O80 Series-M89.

.2 **Fabrication**

.1 **General**

- .1 Assemble fabricated millwork units in mill in units as large as possible. Design units to fit together if site assembly is required.
- .2 Edge plywood where specified or indicated with solid wood to match face veneer, with profiled pressure glued edge joint and finished level with plywood surfaces.
- .3 Fabricate custom casework specified in this Section to meet workmanship specifications in Section 400, Casework, of AWI/AWMAC Custom Quality Standard, except as modified, and as follows:

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- .1 Conceal edge grain of exposed and semi-exposed plywood and particleboard using solid hardwood edges for stain finish or plastic laminate.
 - .2 Assemble cabinet body members with adhesive.
 - .3 Where permitted, drive power-driven Tee head nails or staples with long dimension parallel to grain.
 - .4 Install dust panels between drawers.
-
- .4 Shop fabricate work of this Section in as large units as possible.
 - .5 Incorporate services, fixtures, and trim in units as indicated on drawings or specified in Divisions 15 or 16, or both. Make all necessary cutouts to template information.
- .2 **Trim**
- .1 Rout or groove backs of flat trim members.
 - .2 Kerf backs of wide flat member.
- .3 **Fastening**
- .1 Fasten assemblies with nails generally, but use screws or special fasteners at critical joints where strain, and excessive usage and shrinkage is anticipated, and where required by specified quality grade standards.
 - .2 Glue built-up assemblies as well as nailing and screwing.
 - .3 Bind nail unless impossible.
 - .4 Set finish nails below finished surfaces.
- .4 **Plastic Laminate Facing**
- .1 Apply plastic laminate for counters to poplar faced phenolic bonded plywood, or to particleboard, minimum 19 mm thick, or as otherwise indicated on Drawings. Apply plastic laminate for doors, drawer fronts, gables, etc. of cabinets to minimum 19 mm thick wood core, Birch faced plywood.
 - .2 Bond plastic laminate to backing with urea formaldehyde adhesive, or by methods of equal or better quality recommended by the plastic laminate manufacturer.
 - .3 Seal edges of cutouts with plastic laminate, or where concealed from view by other methods that will prevent entry of moisture into core.
 - .4 Apply plastic laminate backing sheet to core on back side of panels faced with plastic laminate.
 - .5 Ensure that both face and backing sheet have been sanded in same direction.
 - .6 Bond plastic laminate self-edges under pressure, and bevel and finish smooth finished corners.
 - .7 Round corners of holes cut through plastic laminate and file them smooth.
 - .8 Make joints only when lengths of plastic laminate facing exceeds 3660 mm. Butt joints together, reinforce core with 6.4 mm hardwood blind splines, and lock together with Tite Joint fasteners located at a maximum of 75 mm from edges.

.5 **Finishing**

- .1 Finish each surface of millwork to specified quality grade standard where exposed or semi exposed. Consider that all visible surfaces are exposed, including underside surfaces above 1200 mm from floor and interiors of fitments behind glass doors. Consider that underside surfaces within 1200 mm of the floor, top surfaces more than 1800 mm above the floor, interiors of fitments behind opaque doors and the backs of fitment doors are semi-exposed.
- .2 Fine sand surfaces level and smooth after fabrication.

PART 3 - EXECUTION

.1 **Examination**

- .1 Before commencing installation, ensure that grounds, strapping, and other constructions and surfaces to which finish carpentry is installed are satisfactory for fitting and adequate for its securement.
- .2 Take site measurements of construction to which finish carpentry installations must conform, and through which access must be made, before fabricated units are delivered to site, to ensure that adaptation is not required which would result in construction delay.

.2 **Preparation**

.1 **Protection**

- .1 Ensure that finish carpentry materials are protected from damage and deterioration during installation, and otherwise until project completion in accordance with General Conditions.
- .2 Take particular care that wood made fire retardant by pressure treatment is not exposed to dampness.

.3 **Installation**

.1 **General**

- .1 Backprime exterior and interior millwork specified in this Section immediately after delivery to site under work of Section 09900. Ensure that cut ends are primed. Scrape or sand smooth surfaces by this Section. Notify those who are responsible for backpriming in sufficient time to enable them to schedule their work.
- .2 Coordinate the installation of casework manufactured under section 06410 and determine which section will be responsible for the installation of casework. Notify the architect of section responsibility for installation of casework.
- .2 Install finish carpentry plumb, level and straight, and fasten it securely to backing to support itself and anticipated superimposed loads.
- .3 Build finish carpentry into construction as indicated on Drawings or specified in other Section of the Specifications, or both.

.2 **Trim**

- .1 Install in single lengths except where material limitation makes impossible. Stagger joints where they occur and locate over solid backing for fastening.

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- .2 Install wood bases after finish flooring is laid.
 - .3 Cut returns of stool and apron ends to match face profile.

.3 **Cutting and Fitting**

- .1 Cut moldings with sharp true profiles.
- .2 Cope trim and mouldings at interior corners and at returns.
- .3 Miter trim and mouldings at exterior corners. Glue and lock shop miters that are over 100 mm from heel to point.
- .4 Scribe and join members accurately together, and to other surfaces, to fit tightly and with flat smooth surfaces. Install trim or filler panels to close gaps.
- .5 Ensure that all cutouts for electrical devices and plumbing are fully coordinated and neatly completed for work under this section and Section 06410.

.4 **Fastening**

- .1 Fasten finish carpentry with nails generally, but use screws or special fasteners at critical joints where strain, usage and excessive shrinkage is anticipated, and where specified quality grade standards require.
- .2 Blind nail unless impossible.
- .3 Set finish nails below finished surfaces to receive putty.

.5 **Installation of Doors**

- .1 Install wood doors after finishing of walls.
- .2 Fit wood doors with 2 mm clearance at jambs and heads, and 9.5 mm over finished flooring.
- .3 Trim hinge side of wood doors to fit, and bevel latch edges as required.
- .4 Ensure that top and bottom edges of wood doors are primed under Work of Section 09900 after they are cut to fit.
- .5 Undercut wood doors where indicated on Door Schedule.

.6 **Installation of Finish Hardware**

- .1 Install finish hardware
- .2 Make cuts in wood doors neatly
- .3 Accurately locate and adjust hardware to meet manufacturer's instructions. Use special tools and jigs as recommended.
- .4 Install hardware in wood doors at same locations as for hollow metalwork installed in project.
- .5 Locate door stops to contact doors 75 mm from latch edge.
- .6 Install hardware and trim square and plumb to doors.
- .7 Replace missing hardware to ensure specified installation at time of building completion.
- .8 After installation, replace wrappings for hardware provided by manufacturer.
- .9 Safeguard keys to keep them out of unauthorized hands, tag them with opening number, and deliver them to person designated by Architect at building completion.

.7 **Finishing**

- .1 Sand wood surfaces after installation to leave surfaces in true planes and free of machine or tool marks.

.8 **Wood Preservative**

- .1 Give wood installed at exterior of building and which is specified for painting a soaking coat of wood preservative on all surfaces. Give freshly cut ends two additional soaking coats.

.4 **Adjustment and Cleaning**

- .1 Adjust hinged doors to swing freely and easily, to remain stationary at any point of swing, to close evenly and tightly against stops without binding, and to latch positively when doors are closed with moderate force. Ensure that when doors are installed with hinged stiles adjacent, both doors can open simultaneously without binding.
- .2 Adjust hardware so that latches and locks operate smoothly and without binding, and closers act positively with the least possible resistance in use. Lubricate hardware if required by supplier's instructions.
- .3 Clean hardware after installation in accordance with supplier's instructions.
- .4 Sand and clean woodwork to leave free from finish defects in any exposed part.

End of Section

PART 1 - GENERAL

.1 General Requirements

- .1 Division One, General Requirements, is a part of this Section, and shall apply as if repeated here.

.2 Reference Standards

- .1 Standard of finished carpentry, metalwork and cabinet work in accordance with the "Millwork Standards" of the Architectural Woodwork Manufacturers Association of Canada (AWMAC).

.3 Qualifications

- .1 The Vendors must be from the Vendor or Record List.

.4 Work Included

- .1 Provide all millwork and casework as shown on the drawings, including but not limited to the following. Provide prefinished cabinets, display cases, shelving units, counters, vanities, and similar items where shown on drawings as specified herein, and as needed for a complete and proper installation.
- .2 Provision of rough hardware, including fastening devices required to secure in place items of carpentry and millwork.
- .3 Supply and installation of finishing hardware for millwork by this millwork contractor section 06400.
- .4 Supply and installation of grilles, etc. on millwork items.
- .5 Installation of all miscellaneous metals for millwork items including but not limited to vanity & ets. Metal brackets for change room benches to be supplied and installed by miscellaneous metals contractor.
- .6 Supply and installation miscellaneous trims, scribes, filler panels.
- .7 Provide cutouts in the counter tops for the sinks, electrical outlets and all other necessary cutouts regarding the millwork.

.5 Shop Drawings

- .1 Shop drawings only required where not detailed by "AW" drawing. Copies of "AW" are to be marked up to indicate changes."AW" drawings refer to School Millwork Standards drawings contained in Specifications or drawing sets.
- .2 Before shop drawings and fabrication is started, take critical measurements at the site to facilitate installation, fitting of work and access required to move millwork into final location. Take such measurements prior to fabrication of the work of this section and in ample time to avoid delays in the work.
- .3 Draw Shop Drawings in related and/or dimensional positions with sections. Scale minimum 1:10.
- .4 Shop Drawings shall show fabrication details, materials, jointing, description of anchorage and hardware.
- .5 Submit 4 sets for approval.

- .6 Do not commence work until reviewed shop drawings have been returned as approved by Consultant and Client.
- .7 The drawings are to be photo copied, confirmed, to fit openings and sizes, mark up, in red, and return for approval.

.6 Delivery And Storage

- .1 Give Painter sufficient notice so that untreated or unprimed carpentry items or materials can be primed immediately upon delivery to site.
- .2 No equipment shall be delivered to the site until portion of the building in which it is to be installed is completely ready for equipment as approved by Consultant.
- .3 Store finished work properly and keep under cover both in transit and at site. Finish woodwork shall not be delivered to site until concrete and masonry work has dried out.
- .4 Cover all plastic laminate and prefinished top surfaces at shop with heavy Kraft Paper.
- .5 Carefully protect from damage of any kind.

.7 Related Work Specified Elsewhere

- .1 Finishing Hardware - Section 08700
- .2 Finish Carpentry - Section 06200
- .3 Millwork Finish Painting - Section 09900
- .4 Gypsum Drywall - Section 09250
- .5 Painting and Finishing - Section 09900

.8 Shop Finish

- .1 All cabinet work, including wood for change room bench seating and all other cabinet trims, to be shop finished by this Section and per Section 09900.

.9 Samples

- .1 Samples melamine 305x305mm, plastic laminate, edging, hinges, pulls, bumpers, drawer slides, and shelf clip.
- .2 Submit duplicate 12" (300 mm) long samples of each type of moulding.
- .3 Submit samples of construction methods and of all hardware.

.10 Intent

- .1 The intent of this Section is that casework shall be manufactured and finished at the plant, delivered to the Site and immediately installed by this Section including provision of necessary strapping, backings, bearers, rough hardware and finish hardware and miscellaneous support metals and stainless steel metal components.. Touch up finish immediately prior to completion of the Work and leave in perfect condition.

.11 Co-Operation

- .1 Water, drainage and air piping, faucets, hose cocks, retort rod and bases, traps, ventilation ducts, sinks, electric receptacles and wiring are supplied and installed by the Mechanical and Electrical Sections at all rooms. Co-ordinate the work with these trades and make provision in the construction of the fitments to accommodate this work. Methods of construction shall be such as to permit mechanical and electrical work being concealed in the fitments, cut and

frame accordingly, provide removal access panels in the units or provide proper access for installation and repairs.

- .2 Cabinet hardware, pilaster strips, locks, finishing hardware will be supplied by this section. Miscellaneous metals used in this section will be supplied and installed by miscellaneous metals contractor unless otherwise noted.
- .3 Woodwork, not shop primed, will be primed and back painted as per painting section immediately upon delivery to the site. Care shall be taken that all surfaces cut after priming are brush coated with an approved primer before installation.

.12 Maintenance

- .1 Provide Owner with printed instructions for "Care and Maintenance of Plastic Laminate" and millwork finishes.

.13 Warranty

- .1 Warranty workmanship against manufacturing defects, including warpage or delamination, for a period of five (5) years from date of acceptance of substantial completion. Make good or replace work showing defects in this period, as requested, at no expense to the Owner.

PART 2 - PRODUCTS

.1 Materials

.1 Finishing Work:

Materials used for finish work shall be sound, free from defects that would mar finished appearance, well seasoned and air dried and of good quality for intended purposes. Wood laminates pressure bonded.

.2 Plywoods:

.1 Select Plain Sliced Maple architectural Grade 'A' No. 1 Face grade; and yellow birch rotary cut select white (varnish grade) as in compliance with C.S.A. 0115-M1982 with a minimum 5 ply plywood veneer waterproof core, laminated with waterproof adhesive. Plywood shall be good both sides except where concealed by construction. Exposed faces to be natural grade per AWMAC. Interior of doors to be classified as exposed.

.2 Melamine Faced Particleboard: to CAN3-0.188.1-M78, grade "H" particleboard sanded faces, 13 mm, 16 mm, 19 mm, 28.6 mm and 32 mm thickness, faced with laminated plastic. Melamine resin impregnated cover sheet with coloured and/or patterned paper inner layer. Melamine shall be thermally fused to rigid particle board substrate. Melamine faces shall be 120 Gram Weight Paper. Colour to be Hardrock Maple or as noted on the drawings. Maximum of three colours/patterns to be chosen by Consultant from manufacturer's full range.

.1 Acceptable Material: Flakeboard, Uniboard or approved equal. Final colour by Architect at Shop Drawing submission.

.3 Particleboard, CSA-0118-1975 Type 11, Grade R, minimum 690 K8/m³, 4.5 to 8% moisture content.

.3 Hardwood: shall be selected Clear Yellow Birch, all shall be Architectural Grade (knots will not be accepted). It shall be selected for colours and graining when used for stain work.

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- .4 Wood Edging: 1/4" (6 mm) hardwood to match plywood unless indicated otherwise (if maple, use hard maple).
- .5 Melamine Faced Particle Board Edge Banding: solid polyvinylchloride (PVC), 3 mm thickness x full width of board, wood core, wood grain type to match melamine face by Canada Wood tape or approved colour equal. Edging rigid PVC with a measured degree of hardness of " 95 shore D" and thickness of "3mm (+0.15mm, -0.2mm)" with the primer side having a concave measuring 0.10 to 0.25mm.
Edging adhesive Ethylene vinylacetate thermalset adhesive with a temperature resistance of not less than 100 degrees C; A Processing range of 190 degrees - 200 degrees C and natural in colour.
Edging is to be applied using only equipment designed for the application of thick PVC in strict accordance with the specifications of both the thick PVC and hot-melt adhesive manufactures. All edges and all corners of this 3mm PVC edgebanding are to be machined to a 3mm radius for all cabinet parts.
Care should be taken during application to achieve the thinnest glueline consistent with a good bond without causing skips or unspread areas. Final colour by Architect.
- .6 Plywood Concealed by Construction: Douglas Fir plywood shall be veneer core, waterproof, bonded, sanded, complying with C.S.A. 0121-M1978. Solid grade where concealed by construction.
- .7 Concealed Framing Lumber: N.L.G.A.C. select eastern white pine, kiln dried to a 5% moisture content.
- .8 Unexposed Plywood for Framing: Waterproof fir plywood minimum 1/2" (12.7 mm) thickness unless indicated otherwise.
- .9 Adhesive:
- .1 .1 Waterproof synthetic resinous glue of approved general type conforming to C.S.A. 0112.
- .2 .2 For plastic laminate - as recommended by plastic laminate manufacturer and to conform to C.S.A. 0120-M1978.
- .3 .3 Approved waterproof type.
- .10 Plastic Laminate:
- .1 .1 Laminated Plastic for Flatwork: .050" (1.27 mm) thick decorative, melamine surfaced, high pressure laminated plastic sheeting in suede finish to conform to CAN3-A172-M1979 Grade G.P., Type 1. Manufacturer shall thoroughly sand back of sheet to form a homogeneous bonding surface. Plastic laminates shall be as manufactured by Arborite, Formica, Wilsonart or Nevamar. Backing sheet .020" (.5 mm) thick, sanded one side. Products may be selected based upon manufacturer's full standard range of colours and patterns. The finish will be suede; the colour will be non-stock.
- .2 .2 Laminated plastic for postforming work and preforming work: to CAN3-A172-M79 Grade P.F., Type 3, .050" (1.25 mm) thick, based on standard colours with suede finishes as selected by Architect. Plastic laminates shall be as noted in 1 above except for Darkroom 142.3 which shall be as per item 3 below. The colour will be non-stock.
- .11 Cork: 1/4" (6 mm) natural fine grain sheet cork. Cork to be Fabro from Architectural School Products or approved equal. Colour to be selected and approved. Fabric covering over cork, as indicated, to be supplied and installed by this section.
- .12 Nails and Staples: To C.S.A. Bill-1974. Use spiral threaded nails and barbed staples.

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- .13 Architectural Woodwork Finish: Refer to Section 09900.
 - .14 Shelves: adjustable shelves longer than 950 mm and fixed shelves without centre supports longer than 950 mm to be 28.6 mm thick wood veneer plywood or melamine faced particleboard as detailed. Shelves shorter than lengths specified above are to be 19 mm thick wood veneer plywood core and melamine faced particleboard for alternate price items. Front edges of adjustable shelves to be edge-banded. Front edges of fixed shelves to edge banded, rear edge to be secured to cabinet back panel.
 - .15 Egg Crate: 12mm x 12mm x 12mm Deep chrome finished plastic egg grate louvre in display cabinet, complete with chrome finished support angle trim equal to standard Acoustic Ceiling corner angle.
 - .16 Glazing: Doors and shelves 6mm tempered clear glazing, and shelves. Provide 6mm clear tempered glass at display cases and where glass is indicated in millwork units and millwork screen in Library. Glass to conform to Glass and Glazing Section 08800 previously tendered.
 - .17 Aluminum Angles: 50 mm x 50 mm x 3 mm aluminum angles for vertical corners at mobile storage units.
 - .18 Exposed Fasteners: All millwork units secured to walls shall be secured with Tapcon screws and cup washers. All specialty fasteners such as acorn head bolts shall be supplied and installed by this section. Submit samples for Architect's approval.
 - .19 Aluminum Grilles: Brush finished aluminum size as indicated see AD 9.30. Supply and installation of grilles, etc
 - .20 Counter tops: to be plastic laminate postformed on particleboard or veneer core plywood or as noted on the drawings.
Adhesives: to CSA 0112.5M, waterproof type.
Counter tops are postformed D profile.
 - .21 Backer standard: to be .028 thick. Panels shown to have backer panel shall be balanced with 0.5mm (0.030) backing sheet manufactured by the same manufacture as the facing sheet. Core CSA 0115-M1982 (G/SO) or CSA0121-M1978 Grade "B" or CAN3-0188.1-M78, Grade R.

.2 Hardware

- .1 The cabinet work manufacturer shall furnish and install cabinet hardware. Finish of hardware shall be used US26D or US28 depending on base material. Hardware shall be manufactured as follows or approved equal:
 - .1 Pulls - door and drawer, Canadian Building Hardware CBH 255 x C26D.
 - .2 Hinges - Blum 107 degree hinge with soft close or approved equal, or specified other on drawings.
 - .3 Cabinet locks door and drawer - National # C8053-5 or approved equal. All cupboard doors in a room to be keyed the same. Each room to be keyed different. Provide 6 master keys for cupboard locks.
 - .4 Shelf support - Richelieu - # 5834-180 for 32mm spaced holes in all gables or recessed pilaster strips see drawings.
 - .5 Door Bumper - Richelieu # AMP5312-11.
 - .6 Elbow Catch - Richelieu # BP3675-2G.

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- .7 Toe Kick Vent - Richelieu # 010533-30.
 - .8 Drawer slides – Richelieu tandembox 908 white with soft close, adjustable front fixing brackets and 12mm Melamine with 3mm PVC on all exposed edges for bottoms and back panels. Install screws to all pre-drilled holes.
 - .9 Rough Hardware - Nails, screws, bolts, lag screws, anchors, special fastening devices and supports required for erection of carpentry components. Use galvanized components if exposed to exterior atmosphere. Galvanize in accordance with the requirements of CSAG164-M1981. Install all hardware to manufacturer specifications.
 - .10 Glass sliding doors.
Glass sliding doors to be 6mm tempered c/w HUWIL track from Richelieu, lock in track, and ground in finger pulls 12mm x 64mm. Glass shelves to be 6mm tempered.
 - .11 Finishes.
Melamine Composite Panels simulated Hardrock Maple or as noted on the drawings
Edge Banding: simulated Hardrock Maple grain or as noted on the drawings
 - .12 Display Case Shelf Brackets and Standards:
 - .1 Brackets: Knape & Vogt 187 Series length as shown on drawings to suit glass shelf width.
 - .2 Standards: Knape & Vogt Sereis 87.
 - .13 Computer Grommets: Standard recessed 3" (75mm) diameter. Colour as selected by Architect.
 - .14 Slide Bolts: Gallery 73 - 3" (75 mm) or approved equal.
 - .15 Casters from Colson in Cambridge - lockable model 22.04156.445, non-lockable model 2.04056.445.
 - .16 Closet rod , Metal rod chrome 26mm dia. #122.108.140 And matching flanges #8332-140, by Richelieu
 - .17 Coat Hooks, Henkel Hook from Henkel Diversified Inc (519-641-5872)

.3 Fabrication

.1 General

- 1. Fitments shall be machined, assembled in mill where possible and delivered to job in units. Construct in accordance with details using first class cabinet construction with joints dowelled, glued and properly fastened. Machine all surfaces of finished woodwork to an even smooth surface; fit all joints and miters accurately. Frame materials with tight joints held in place, Conceal joints and connections where possible. Joints made on site shall be equal in quality of work to joints made in the shop.
- 2. Check job dimensions and conditions and notify the Consultant in writing of unacceptable conditions. Design construction methods for expansion. Do not proceed until remedial instructions are received.

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3. Deliver work to the job ready for installation. Leave ample allowance for fitting and scribing on the job. Shop assemble work for delivery to site in size easily handled and to ensure passage through building openings, Design units to fit together if site assembly is required.
 4. Fabricate work square and to the required lines. Recess and conceal fasteners and anchor heads. Fill with matching wood plugs.
 5. Comply with glue manufacturer's recommendations for lumber moisture content, glue life, pot life, working life, mixing spreading, assembly time, time under pressure and ambient temperature.
 6. The interior of counters, cupboards, shelving units, desks, shall be considered "exposed". Finish all exposed edges with 3mm thick PVC edge banding material, applied by an Edge-Bander using Hot Melt adhesive. Colour to match the melamine. Radius all exposed edges and corners (PVC edging or Wood edging). Counter tops which are to receive plastic laminate coverings may be 3/4" (19 mm) thick sanded veneer core plywood where specified. Particle core shall be used for shelving and gables, countertops specifically called for as solid material or as otherwise specified. Include all filler strips and to match the face colour.
 - .7 Refer to Drawings and Architectural Detail Sheets for location, details, number of units required and location of fittings.
 - .8 Interior fitments shall be complete in every respect with special fittings required and hardware.
 - .9 Provide exposed end grain of solid members and edges of exposed plywood with matching solid hardwood edging at least 1/4" (6.4 mm) thick and thicker where specified. At melamine faced particle board provide 3 mm P.V.C. edging complete with 3 mm radius on all exposed edges and corners as per millwok sections. Edging to melamine faced particle board shall be applied with an Edge-Bander using hot melt adhesive.
 - .10 Make all necessary cut-outs in the furniture for sinks, gas cocks, appliances, and electrical switch and outlet boxes and pre-drill all mounting holes for faucets, fittings and outlet boxes. Refer to electrical and mechanical drawings and specifications.
 - .11 Provide and install pipe covers, scribing pieces, top, bottom and/or closures and filler panels where necessary, including wherever units require furring out or blocking to existing conduits, pipes, etc.
 - .12 Service cover panels to be provided at all kneehole drawer units, kneehole front rails and knee drawer table assemblies. End closing panels to be provided at all exposed ends of service strips and island/peninsula assemblies. Front filler panels to be provided where called for on Drawings and as required by field conditions.
 - .13 Telephone and electrical receptacles and wiring are specified under Electrical Division. Co-ordinate work of this trade, make provision to accommodate this work and cut tops for and provide wood bearers for support.
 - .14 Cooperate with others engaged in work on the building to the end that proper unity of action will assure the orderly progress of the work. Do necessary boxing and protecting of sills, jambs, and the like. Construct scaffold, ramps, and other temporary staging necessary.
 - .15 Provide 3/4" (19 mm) plywood adjustable or fixed shelving where detailed. Maximum unsupported span for shelving shall be 3'-0" (900 mm). Fixed shelves

shall be dowelled into gables and divisions. Where shelves are set on clips only, gables shall be drilled 32 mm o.c. for total height of gables.

- .16 The plywood used in interior fitments throughout regardless of whether for paint or stain finish, shall have exposed edges edged with solid strips 1/4" (6 mm) wide, unless noted otherwise by full thickness of plywood. No exposed edges of plywood will be permitted. Strips shall be glued and accurately fixed to edges. Adjustable shelves shall have strips applied to front edge.
- .17 Exposed framing members and trim shall be solid hard maple or birch.
- .18 Plastic laminate coverings to fitments, cupboards and counters shall be in colours selected by Architect, and applied in accordance with manufacturer's directions. Where plastic laminate occurs, exposed edges and edges around cut-outs such as sinks shall be edged in the same material. Seal remaining exposed edges of surfaces with heavy Kraft paper prior to shipment. Paper shall not be removed until final cleaning. When cutting holes in plastic laminate work, corners shall be rounded and filed smooth.
- .19 When cutting holes in plastic laminate work, corners shall be rounded and filed smooth.
- .20 Protection erected by this trade shall be removed, damage to this work and adjoining work due to the lack or failure of such protection, made good and debris, surplus materials, plant and equipment removed and premises and the whole left clean and tidy to Architect's satisfaction.
- .21 Melamine on all surfaces unless noted otherwise.
- .22 Fabricate all plywood and melamine faced particle board backs, gables and bottoms of millwork units together by means of 8 mm x 25 mm hardwood dowels or with hardwood biscuits. All backs to be 1/2" (13 mm) stock. Dowel all panel cabinet components using 5 mm x 25 mm hardwood dowels or biscuits at maximum 4" (100 mm) o.c. All drawer bottoms and backs are 1/2" stock or greater. All exposed edges on all melamine faced particle board units to be edged with solid 3 mm PVC C/W 3 mm radius edges and corners including drawer parts and with 1/4" (6 mm) matching hardwood edge banding at Maple and Birch units. Kick material for normal application shall be 3/4" (19 mm) waterproof spruce/fir plywood to be used. Resilient base by Section 09650 and quarry tile base by Section 09300.

.2 Cupboard Doors

- .1 Doors shall be 3/4" (19 mm) thick particle core veneer plywood. Doors shall be flush, slab type, accurately fitted, free of warp and twist. Care must be taken in sawing and assembling so that there is no splintering of finish face. Splintered doors that mar the appearance will be rejected by the Architect.
- .2 Where melamine is specified; construct doors of 3/4" (19 mm) particle core with melamine good - 2 sides.
- .3 Provide two door silencers/bumpers per panel mechanically fastened to the cabinet frames.

.3 Drawers

- .1 Fabricate Blum Metabox drawer bottom and backs with 16mm melamine composite panel.
- .2 Where melamine is specified: drawer fronts to be 3/4" (19 mm) particle core with melamine, good 2 sides.

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- .3 Extend all backs in file drawers for use with hanging file hardware. Metabox units used should also allow for legal width hanging folders to run front to back and letter width side to side where space permits.
 - .4 Fronts to match cupboard doors finish.
 - .5 Provide two drawer silencers/bumpers per drawer panel mechanically fastened to the cabinet frame.

.4 Counters, Cupboards, Shelving, Circulation Desk etc.

Adjustable shelves c/w clips and drilled holes at 32mm centers. Base cabinet's c/w 1 shelf, wall cabinet's c/w 2 shelves, and tall cabinet's c/w 5 shelves, the center shelf is fixed unless drawings show otherwise

Factory installs all hardware firmly into position for long life under hard use. Install 2 hinges on doors up to 1 meter in height, 3 hinges to 1.5 meter in height and 4 hinges for doors greater than 1.5 meters in height or shown otherwise.

- .1 Frame as detailed with 3/4" (19 mm) thick, or as noted otherwise, plywood gables, tops and bottoms. House intermediate dividers and plywood backs, into gables and top and bottom shelves, for all fitments. Plywood shall be birch or oak as called for in this Section unless otherwise indicated. Cabinet backs to be 1/2" (13 mm) plywood.
- .2 Where melamine specified: horizontal and vertical gables; and shelving to be 3/4" (19 mm) particle core with melamine, good 2 sides. Cabinet backs to be 1/2" (13 mm) particle core with melamine, good 1 side.
- .3 Fabricate cabinet carcass, The 32-millimeter system from 19mm thick melamine composite panel using flush frameless construction and exposed edges, to AWMAC Standard " Custom grade" c/w 3mm thick PVC edge banding on exposed edges. All exposed edge banding c/w 3mm radiused edges and corners.
Do not exceed 800mm a maximum width of cabinet without a divider or specified otherwise.
Carcass construction- Backs 16mm, bottoms, rails, doors, drawer fronts 19mm of melamine composite panels, assembled with glued hardwood dowels 8x30mm or wafers.
- .4 Cut countertops for sinks and provide bearers. Provide splashback at back of sink for entire length of the unit and at return ends where walls or other vertical surface occur within 600mm of sink or other wet location.
- .5 Countertop and splashback will be plastic laminate unless noted otherwise.
- .6 Provide removable plywood access panels, screwed in place, where necessary for access to concealed wiring.
- .7 Fit trim and scribe moulds to fitments as shown and as required to hide voids at walls, partitions and ceilings.
- .8 Provide cut-outs for inserts, outlets, grilles, appliances, etc. occurring in fitments.
- .9 Bottom of units blocked up to form a 4" (100 mm) high x 3" (75 mm) deep toe space and fabricated from 19mm waterproof veneer core plywood of fir or spruce
- .10 Fit fillers between fitments, of same material as fitments, where necessary to fill voids between fitments and walls.
- .11 Lighting fixtures and outlets to be supplied and installed under Division 16.
- .12 Provide cutouts and access panels where required for Division 15 and covers over ductwork (stove exhaust fans) or piping that run exposed above counters and upper shelves.

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- .13 Provide extended top, bottom, and exposed gables where furring out of upper cupboards is required due to pipes, conduits, and the like behind to provide a flush face at walls.
- .14 Plastic Laminate Work:
- .1 Comply with CAN3-A172-M79, Appendix "A".
 - .2 Veneer laminated plastic to core material in accordance with adhesive manufacturer's instructions. Ensure core and laminate profiles coincide to provide continuous support and bond over entire surface. Provide cores of not less than 3/4" (19 mm) nominal thickness solid face Douglas Fir.
 - .3 Form shaped profiles and bends as indicated, using post forming grade laminate to laminate manufacturer's instructions.
 - .4 Use straight self-edging laminate strip .062" (1.6 mm) thick for flatwork to cover exposed edge of core material. Chamfer exposed edges uniformly at approximately 20 deg. Do not mitre laminate edges. Curved self edging shall be post formed material or bending grade.
 - .5 Apply laminate backing sheet to reverse side of core of plastic laminate work where specified. Provide backing sheet of sufficient thickness to compensate for stresses caused by the facing sheet.
 - .6 Locate joints where indicated, where not indicated at approximately 8'-0" (2440 mm) or 12'-0" (3660 mm) centres also include joints at corners, and changes in superficial area.
 - .7 Accurately fit decorative laminate together to provide tight, flush, butt joints. Joints in cored panels shall be made with 1/4" (6 mm) blind splines and draw bolts, one draw bolt for widths up to 6" (150 mm), two or more draw bolts at maximum 18" (450 mm) o.c. for widths exceeding 6" (150 mm).
 - .8 Keep joints min. 2'-0" (300 mm) from sink cutouts.
 - .9 Seal the core at joints and exposed edges with sealer.
Counter tops apply Tremco Tremsil 200 silicone sealant at junction of plastic laminate or phenolic tops when tops are joined. All joints to be over a gable or supported other wise.
Use draw bolts in counter top joints.
Apply a small bead of mildew-resistant paintable silicone sealant at junction of plastic laminate counter back and adjacent wall finish.

PART 3 - EXECUTION

Execution.

Preparation and Protection.

Protect work of other trades from damage.

Make good any resulting damage, to the satisfaction of the Consultant, at no additional cost to the owner.

.1 Workmanship

- .1 Fabricate and install work in accordance with the best practice. Finished work shall be free from drag, feathers, slivers or roughness of any kind. Remove machine marks by sanding. Give finished work smooth surfaces, ready for painting or varnish application.

- .2 Mortise and tendon joints shall be glued and pinned. All panels shall be secured together with specified glued and dowelled method. Glue blind screw all fabricated component work unless otherwise specified. Set surface nails and plug countersunk screws with matching wood plugs. Use screws with cap washers where units with doors are secured to walls behind.
- .3 Finished woodwork shall be free from bruises, blemishes, mineral marks, knots, shakes and other defects.
- .4 All metal items such as grilles, tracks, supports, legs, brackets, etc. supplied by other trades shall be built into fitments, paneling, wood doors, etc., in strict accordance with directions of trades supplying such.
- .5 Furnish rough hardware, nails, expansion shields, screws, brackets and incidentals required to assemble and install the fitments in their proper locations.
- .6 Fit small scribe moulds or fillers of same materials as fitment to hide or fill voids at walls, partitions ceilings, furrings, exposed tops of millwork units, at base locations where rubber base occurs.
- .7 Plywood Edging: all exposed 3/4" (19 mm) plywood edges shall be covered with glued on 1/4" (6 mm) thick hardwood strips.

.2 Millwork Workmanship

- .1 Fitments shall have joints dowelled and all joints shall be glued and nailed or screwed. All cabinet bases shall be of 3/4" plywood, blocked 3'-0" O.C. maximum and at corners.
- .2 Counter tops shall have splash backs where sinks occur.
- .3 Shelving shall be 3/4" (19 mm) plywood, adjustable or fixed as detailed. Maximum unsupported span for shelving shall be 3'-0" (900 mm). Adjustable shelves shall be set on angle clips or metal pilaster strips. Loose shelves shall have PVC edges on front edge.
- .4 Laminates shall be pressure bonded to back-up board. Counter tops shall be self edged and have plastic laminate covered back splash. Back-up material for counter tops shall be particle core unless otherwise noted.
- .5 Plastic laminate surface shall be level, without bubbles and core ghosting. Core edges in counter cut outs shall be sealed with asphalt compound. All exposed plastic edges shall be matched and sanded.

.3 Installation

Welded bench brackets to be supplied and installed by others. Installation of wood work to the bench brackets to be completed by this section.

Commencement of work implies total acceptance of surface and site conditions.

Set and secure all materials and components in place, rigid plumb and square.

Provide all furring strips and strapping required fixing millwork and casework to walls, etc. Provide all filler strips to seal any openings or joints at adjacent surfaces.

After installation, fit and adjust operating hardware to align all doors and drawers.

Clean up as the work proceeds and upon completion remove all rubbish and surplus materials resulting from the foregoing work.

Plumbing.

Sink installation.

Cut hole, clean the counter top with alcohol.

Use Tremco, Tremsil #200 a silicone sealant that gives protection against fungi and bacteria. Install Tremsil around the cuts, and then place a bead of Tremsil on the top before installing the sink. Millwork Contractor to make sure the Plumber installs as specified.

- .1 Installation and assembly work on the job shall be executed by skilled forces under supervision of a competent joinery foreman.
- .2 Furnish rough hardware, nails, expansion shields, screws, brackets and incidentals required to assemble and install fitments in proper locations. Units shall be adequately fastened and secured in place with concealed fixings wherever possible. Include grounds and furring where required.
- .3 Fitments shall be installed level, plumb and true and complete in all respects.
- .4 Provide smooth surfaces with fastenings sunk and filled over to receive stain and sealer.
- .5 Use draw bolts in countertop joints.
- .6 At junction of plastic laminate counter, back splash and adjacent wall finish, apply small bead of silicone sealant as per Section 07900 in colour as selected by Architect.
- .7 Apply water resistant building paper over wood framing members in contact with masonry or cementitious construction.

.4 Hardware Installation

- .1 Locate concealed European style hinges in accordance with manufacturer of hinge and with best standard practice. Set knobs, locks, and cylinders square with doors and escutcheons plumb. Apply accurately and neatly, to operate quietly and smoothly. Knobs shall turn easily, bolts slide freely and smoothly.
- .2 All cupboard doors and drawer locks except as noted below, shall be keyed alike in each room unless otherwise stated. All such keys shall be labeled as to their lock location and shall be turned over to the Owner. All locks, slide bolts, etc. shall be supplied with the appropriate strikes and screws. Provide slide bolts at all locked pair of doors on interior side of door leaf without lock.

NOTE: No locks on doors below sink units.

- .3 All pilaster strips, where specified, shall be recess mounted and installed with the numbers on the pilaster at equal heights.
- .4 At completion of the work, moving parts shall be gone over, made to work easily, smoothly and efficiently. Work carefully cleaned down and left in complete and finished condition satisfactory to Architect.

.5 Resilient And Quarry Tile Base

- .1 Supply and installation of Resilient or quarry tile Base at millwork units as indicated is by Section 09650 for rubber base locations and Section 09300 for quarry tile locations.
- .2 Provide hardwood base to match millwork where rooms are finished with wood base.

End of Section

Part 1 General

1.1. DESCRIPTION

.1 General Requirements:

.1 Division 1 and General Requirements is a part of this Section and shall apply as if repeated here.

.2 Work Performed by Other Sections Related to this Section is Specified In:

Section 04 20 00: Raking of Masonry Joints

.3 Work Included Elsewhere but Performed in Compliance with this Section:

Section 04 20 00: Unit Masonry

Section 08 11 00: Steel Doors and Frames

Section 06 10 00: Rough Carpentry

Section 09 20 00: Gypsum Board

1.2. QUALITY ASSURANCE

.1 Subcontractor Qualifications:

.1 Seal joints specified in this Section by Subcontractor approved by manufacturers of sealants, who has equipment adequate for Project, skilled tradesmen to perform it expeditiously, and know to be responsible for satisfactory installations similar to the specified during at least the immediate past five years.

1.3. REFERENCES

.1 Reference Standards: Reference Standards quoted in Contract Documents refer to:

CGSB Specification 19-GP-5M, Sealing Compound, One Component, Acrylic Base, Solvent Curing

CGSB Specification 19-GP-9Ma, Sealing Compound, One Component, Silicone Base, Chemical Curing

CAN/CGSB-19.13-M82, Sealing Compound, One Component, Elastomeric, Chemical Curing

CAN/CGSB-19.24-M80, Sealing Compound, Multi-Component, Chemical Curing

1.4. SUBMITTALS

- .1 Samples: Submit samples of sealant and backing, if requested.
- .2 Product List: Submit manufacturer's and product name for each sealant which will be used for Project, before commencing joint sealing.

1.5. SITE CONDITIONS

- .1 Environmental Conditions: Apply sealants only to completely dry surfaces, and at air and material temperatures above minimum established by manufacturer's specifications.

1.6. WARRANTY

- .1 Extended Warranty:
 - .1 Submit a warranty of the joint sealant installation specified in this Section covering the period for four years beyond the expiration of the warranty period specified in the General Conditions to the Contract, including materials and applications. Replacement of joint sealants shall include removal of defective materials, preparation for and application of new materials, and the repair and making good of damaged adjacent materials.
 - .2 Defective joint sealant installation shall include, but not be restricted to, joint leakage, hardening, cracking, crumbling, melting, bubbling, shrinkage, running, sagging, change of colour, loss of adhesion, loss of cohesion, and staining of adjoining or adjacent materials or surfaces.

Part 2 Products

2.1. MATERIALS

- .1 All materials utilized in a sealant system shall be compatible.
- .2 Specified proprietary products are minimum acceptable quality. Products of other manufacturers of equal or superior quality will be accepted where specifically approved by Architect.
- .3 Sealants:

- .1 Provide sealant formulation recommended by manufacturer for type of joint, substrate and service conditions applicable.
 - .2 Refer to Caulking Schedule for utilization of the following sealants.
 - .3 Colours of sealants will be selected from manufacturer's standard range.
 - .4 Acrylic Solvent Release, One Part, Sealant: To meet specified requirements of CGSB Specification 19-GP-5. PTI 738 by P.T.I. Sealants Ltd.
 - .5 Two Part Urethane Sealant: To meet specified requirements of CAN/CGSB-19.24-M80, and as recommended by manufacturer for conditions. Dymeric 240 by Tremco Canada.
 - .6 One Part Urethane Sealant: To meet specified requirements of CAN/CGSB-19.13-M82, and as recommended by manufacturer for conditions. Vulkem 45 SSL by Tremco Canada.
 - .7 Silicone Sealant: One Part Sealant: To meet specified requirements of CAN/CGSB-19.13-M82. Tremsil 200 by Tremco Canada, or as otherwise approved.
 - .8 Two Part Polyepoxide Urethane Sealant: To meet specified requirements of CAN/CGSB-19.24-M80. Dymeric by Tremco Canada.
 - .9 One Part Polysulphide Sealant: To meet specified requirements of CAN/CGSB-19.13-M82.
 - .10 Two Part Polysulphide Sealant: For use in joints except where subjected to traffic: To meet specified requirements of CAN/CGSB-19.24-M80, non-sag, with a Shore "A" hardness range of 20 to 35.
 - .11 Two Part Polysulphide Sealant: For use at surfaces subjected to traffic: To meet specified requirements of CAN/CGSB-19.24-M80, self-levelling, with a Shore "A" hardness range of 35 to 40.
- .4 Primer:
- .1 Specifically designed for use with sealant compounds on surfaces encountered, and as specified by the compound manufacturer to assure adhesion of compound to prevent staining of substrate materials.

- .5 Sealant Backing (Bedding Material):
 - .1 Extruded, foamed, closed cell, round, polyethylene, urethane, neoprene or vinyl rod, 30% greater diameter than joint width, with Shore "A" hardness of 20, and 830-900 kPa tensile strength, and manufactured especially for the purpose.
- .6 Void Filler: Mineral fibre as specified in Section 07200.
- .7 Bond Breaker: For installation where minimum specified depth of joints is unobtainable. Pressure sensitive plastic tape, 3M 3266 or #481.

Part 3 Execution

3.1. EXAMINATION

- .1 Before commencing joint sealing, verify at site that joint configuration and surfaces have been provided as specified in other Sections to meet intent of sealant specification; that joint conditions will not adversely affect execution, performance or quality of completed sealed joints; and that they can be put into acceptable condition by means of preparation specified in this Section. If in doubt, verify site conditions together with manufacturer's representative of sealant to be applied.
- .2 Ascertain that sealers and coatings applied to sealant substrate are compatible with the sealant used and that full bond between sealant and substrate is attained. Request samples of the sealed or coated substrate from their fabricators for testing of comparability and bond, if necessary.
- .3 Verify specified environmental conditions are ensured before commencing joint sealing.
- .4 Defective sealed joints resulting from application to unsatisfactory joint conditions will be considered the responsibility of this Section.

3.2. PREPARATION

- .1 Remove loose mortar, dust, oil, grease, oxidation, mill scale, coatings, all other materials affecting bond of compounds to surfaces that sealant compounds must adhere, except for painted surfaces, by brushing, scrubbing, scraping or grinding.
- .2 Clean down caulked metal surfaces with clean cellulose sponges or rags soaked in solvent recommended by sealant manufacturer and wipe dry with clean cloths. Ensure that solvent is not injurious to painted surfaces.

- .3 Use method of preparation suitable for substrate as recommended by sealant manufacturer, and that does not damage adjacent surfaces.
- .4 Ensure that releasing agents, coatings or other treatments have either not been applied to joint surfaces, or that they are entirely removed.

3.3. APPLICATION

- .1 Except where specified in other Sections, seal open joints in surfaces exposed to view, and to make the building weathertight and airtight as applicable; as indicated typically on Drawings, and as otherwise specified. Refer to Article 3.05, Caulking Schedule. Include, but do not restrict it to, sealing the following joints:
 - .1 Perimeter joints of exterior and interior pressed steel opening frames where installed in masonry and a weathertight joint is otherwise required.
 - .2 Perimeter joints of exterior and interior aluminum opening frames.
 - .3 Perimeter joints of exterior louvre and vent frames.
 - .4 Joints between underside of window sills and walls.
 - .5 Exposed control joints in masonry walls.
 - .6 Exposed expansion joints in masonry walls.
 - .7 Exposed control joints in concrete except for floors.
 - .8 Exposed expansion joints in concrete.
 - .9 Raked joints at masonry wall junctions and masonry to concrete junctions.
 - .10 Interior and exterior exposed joints, between dissimilar materials, and not concealed from view.
 - .11 Exposed control joints in gypsum/fibre reinforced gypsum panels.
 - .12 Joints at wall floor junctions, and at floors unless indicated on Drawings.
 - .13 Full length of exterior door saddles.

- .14 Close-fitted space between mechanical and electrical ducts, conduits and pipes, and walls and also at floors where fire separations must be maintained.
- .15 Joints between base angle and structure at preformed metal siding.
- .2 Prime surfaces to receive sealants as required by substrate and manufacturer's specifications to ensure positive and permanent adhesion, and to prevent staining.
- .3 Pack joints tightly with sealant backing set at depth specified for sealant. Fill other voids with filler.
- .4 Install bond breaker tape in bottom of joints in lieu of sealant backing where proper depth cannot be obtained when backing is installed.
- .5 Maintain depth of sealant as follows for joint width of:
 - 6 mm (minimum joint width): joint depth 6 mm
 - 6 to 13 mm: depth equal to joint width
 - 13 to 25 mm: depth equal to $\frac{1}{2}$ joint width
 - 25 to 50 mm: maximum depth of 13 mm
- .6 Install sealant in joints over 50 mm wide only after consultation with and approval of sealant manufacturer.
- .7 Fill joints with sealant compound to specified or indicated depths as indicated. Perform joint sealing in accordance with compound manufacturer's specifications, under his/her supervision, and using pressure guns and other equipment as approved by him/her. Finish joints with a full bead so that they are smooth and free from ridges, wrinkles, air pockets and embedded foreign materials.
- .8 Tool surface of joints to a slight concave profile.
- .9 Make compounds workable only as manufacturer specifies.
- .10 Caulk joints in site painted materials after adjacent surfaces have been painted. Match compound to paint colour.
- .11 Do not allow sealants to cover or spot surfaces outside of joints. Use masking tape protection to prevent coating of adjacent surfaces, if necessary.

3.4. CLEANING

- .1 Remove sealant smears and drippings, and masking tape immediately on completion of joint sealing.
- .2 Do not use chemicals, scrapers, or other tools which would damage surfaces from which excess compounds or drippings are removed. Make good materials damaged by cleaning by the installer of the damaged material and at the expense of this Section.
- .3 Instruct Contractor on proper final cleaning methods.

3.5. CAULKING SCHEDULE

- .1 Type 1 Sealant:

One or Two-Part Polysulphide Sealant, or
One or Two-Part Urethane Sealant, or
One Part Silicone Sealant, or
Use at all locations except where another is specified.
- .2 Type 2 Sealant: Use at exterior joints between window frames and masonry.
- .3 Type 3 Sealant: One-Part Clear Silicone Sealant, mildew resistant. Use at joints between:
 - .1 Washroom fixtures and wall
 - .2 Washroom fixtures, water closets and floor
 - .3 Countertops and wall
 - .4 Cabinets and walls and adjacent finishes.

END OF SECTION

Part 1 General

1.1. DESCRIPTION

.1 General Requirements:

.1 Division 1, General Requirements, is part of this Section and applies as if repeated here.

.2 Work Performed by Other Sections Related to this Section is Specified In:

Section 06 20 00: Hanging of Wood Doors
Section 07 92 00: Caulking Frames
Section 08 71 00: Supply of Finish Hardware
Section 09 91 00: Painting and Finishing

.3 Installation of Products Supplied by this Section is Specified In:

Section 04 20 00: To build anchors/frames in masonry.
Section 06 20 00: To set up frames in masonry openings.
Section 06 20 00: To install hollow metal doors.
Section 09 21 00: To install and anchor frames in drywall partitions.

1.2. QUALITY ASSURANCE

.1 Subcontractor Qualifications:

.1 Provide fabrications specified in this Section only by a Subcontractor who has adequate plant, equipment, and skilled tradesmen to perform it expeditiously, and is known to have been responsible for satisfactory installations similar to that specified.

.2 Requirements of Regulatory Agencies:

- .1 Construct fire-rated doors and frames of ratings indicated in accordance with validating label requirements, otherwise required by jurisdictional authorities.
- .2 Ensure hardware and installation meet CAN4-S104 requirements, Standard Method for Fire Tests of Door Assemblies adopted by Insurance Advisory Organization, when applicable.

- .3 Doors and frames indicated as labelled, to meet conditions of NFPA No. 80, for installation and shall have attached ULC labels.

1.3. REFERENCES

- .1 Reference Standards: Reference standards quoted in Contract Documents refer to:

ASTM A366-72, Specification for Steel, Carbon, Cold-Rolled Sheet, Commercial Quality.
ASTM A525-81, Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process, General Requirements
ASTM A526-80, Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process, Commercial Quality
ASTM A780-80, Standard Practice for Repair of Damaged Hot-Dip Coatings
CGSB Specification 1-GP-132M, Primer, Zinc Chromate, Low Moisture Sensitivity
CGSB Specification 1-GP-140M, Primer, Red Lead, Iron Oxide, Oil Alkyd Type
CGSB Specification 31-GP-105M, Coating, Conversion, Zinc Phosphate, for Paint Base
CGSB Specification 1-GP-181M, Coating, Zinc Rich, Organic, Ready Mix
CSA Standard G164-M1981, Hot-Dip Galvanizing of Irregularly Shaped Articles

1.4. SUBMITTALS

- .1 Shop Drawings: Submit shop drawings.

1.5. DELIVERY, STORAGE AND HANDLING

- .1 Brace frame units to prevent distortion in shipment. Protect finished surfaces by sturdy, protective wrappings.
- .2 Ensure that doors are stored in a secure, dry location to ensure they are not damaged until hung. Remove wrappings when finally stored in location secure from damage. Store doors vertically, resting on planks, with blocking between to allow air to circulate.
- .3 Repair damage to finishes immediately as it occurs with matching specified finish materials.

Part 2 Products

2.1. MATERIALS

- .1 Steel Sheet:

- .1 Cold-rolled, stretcher levelled to meet specified requirements of ASTM Specification A366 or SAE Specification 1010: Galvanized sheet, commercial quality, to meet specified requirements of ASTM Specification A526.
- .2 Primer Paint:
 - .1 General: Ensure that primers are compatible with specified finish paint.
 - .2 Primer: To meet requirements of CGSB Specification 1-GP-132, 1-GP-81, or 1-GP-140.
- .3 Galvanizing:
 - .1 Full galvanized sheet steel: coating to meet specified requirements of ASTM Specification A525, zinc coating designation Z275.
 - .2 Wiped coated sheet steel; zinc wiped coating to meet specified requirements of ASTM Specification A525, zinc coating ZF75.
 - .3 Galvanized accessories: zinc coating to meet specified requirements of CSA Standard G164, including Appendix A.
- .4 Zinc Rich Paint: To meet specified requirements of CGSB Specification 1-GP-181.
- .5 Panel Insulation: At Exterior: Polyurethane; closed cell rigid board, density: 32 Kg/cubic metre.
- .6 Grilles: E.H. Price, Series STG1, steel, prime painted, sizes as shown on Door Schedule.
- .7 Door Bumpers: Single stud rubber at interior openings.
- .8 Door Core Materials:
 - .1 Honeycomb: Structural small cell 25 mm (1") maximum Kraft paper 'honeycomb'. Weight: 36.3 (80 lb.) per ream (minimum). Density: 16.5 kg/m³ (1.03 pcf) minimum, sanded to required thickness.
 - .2 Temperature Rise Rated (TRR): Solid slab core of non-combustible, inorganic composite to limit temperature rise on the "unexposed" side of door to 250 °C at 60 minutes to ULC CAN4-S104-M80, ASTM E2074-00e1 or NFPA 252-2008.

.3 Polystyrene: EPS polystyrene, Type 1, Density: 16 to 32 kg/m³ (1 to 2 pcf), thermal values: RSI 1.06 (R 6.0) minimum, conforming to ASTM C578-09e1.

.9 Adhesives:

.1 Heat resistant, single component, polyurethane reactive (water) hot melt, thermoset adhesive.

.2 Rigid Insulation Cores: Heat resistant, epoxy resin based, low viscosity, contact cement.

.3 Lock Seam Doors: Fire resistant, resin reinforced polychloroprene, high viscosity sealant adhesive.

.10 Acceptable Manufacturers:

.1 All Steel Doors 2000 Ltd.

.2 Artek Door (1985) Ltd.

.3 Daybar Industries Ltd.

.4 Fleming-Baron Door Products, an ASSA ABLOY group company

.5 Trillium Steel Doors Ltd.

.6 Vision Hollow Metal Ltd.

2.2. DOOR AND FRAME SYSTEMS

.1 Exterior Framing:

.1 2.0 mm thick steel frames fully welded; minimum 170 mm jamb depth.

.2 Frame sizing shall be of the metric size shown in Door and Frame Schedules.

.2 Interior Frames:

- .1 For Masonry Partitions: 1.6 mm thick welded construction; knocked-down construction where Door and Frame Schedule makes reference to “suit existing construction”; minimum 170 mm jamb depth factory welded.
- .2 For Drywall Partitions: 1.6 mm thick welded construction; throat size to suit partition.
- .3 Frame sizing shall be of the metric size shown in Door and Frame Schedules.
- .3 Doors:
 - .1 Interior: Wood by 08210
 - .2 Door sizing shall be of the metric size shown in Door and Frame Schedule or to suit existing openings.

2.3. FABRICATION

- .1 General:
 - .1 Fit & assemble fabrication in shop where possible. Make trial assembly in shop when not possible.
 - .2 Fabricate, reinforce, and anchor component parts and assemblies, to support loads usage will impose without deflection detrimental to function, appearance, or safety.
 - .3 Reinforce components to resist stresses imposed by hardware in use.
 - .4 Prepare frames and doors for specified hardware with mortises, and reinforcement. Drill and tap to template information. Incorporate steel reinforcement of:
 - .1 1.6 mm thick flush bolts locks & strikes.
 - .2 6.4 mm for hinges
 - .3 4.8 mm for push/pulls and panic devices.
 - .4 2.7 mm thick for surface mounted hardware, and door closer brackets and arms

- .5 Install metal mortar guards of minimum 0.76 mm thick steel at cutouts for hardware in frames installed in masonry walls.
 - .6 Reinforce all frames for closers.
 - .7 Provide for anticipated expansion and contraction of frames and supports.
 - .8 Fit elements at intersections & joints accurately together in true planes, plumb & level.
 - .9 Weld frame and door assemblies together. Weld continuously at joints exposed to view or at joints through which air or water could penetrate from the exterior of building to the interior.
 - .10 Where welding is impossible, connections may be bolted. Rem drilled holes and leave exposed edges clean and smooth.
 - .11 Isolate from each other dissimilar metals, and metal from concrete or masonry or prevent electrolysis.
 - .12 Ensure that exterior doors and frames are tightly fitted, and drips are installed on frames of out-swinging doors, to prevent entry of water where exposed to weather.
- .2 Pressed Steel Door Frames and Screen Frames:
- .1 Supply frames to suit construction conditions and dimensions indicated on Drawings and in Door and Frame Schedule.
 - .2 Schedule of fabrication and delivery must be such that it will not delay the project.
 - .3 Fabricate interior frames of wipe coat galvanized steel and exterior frames of gull galvanized sheet steel.
 - .4 Fabricate steel frames in minimum thickness of 1.6 mm thick sheet steel unless otherwise specified or indicated.
 - .5 Use 2.0 mm thick sheet steel for exterior frames.
 - .6 Minimum frame material thickness applies only to doors not otherwise requiring heavier gauges to meet specified fire rated construction as required by validating underwriter's test.

- .7 Fabricate removable stops of minimum 0.91 mm thick steel. Do not weld stop corners.
 - .8 Install recessed weatherstripping in stops of exterior doors.
 - .9 Finish frame with one coat of galvanized primer on zinc coated surfaces exposed to view.
 - .10 Where members join at corners, cut mitres and weld continuously along inside of sections.
 - .11 Where tubular frame sections meet frame members, join by butt welding.
 - .12 Attach two 1.2 mm thick steel channel spreaders at bottom of door frames to maintain square alignment, secured to facilitate removal after frames that extend only to finish floor are built in.
 - .13 Incorporate structural stiffeners for frame members as shown on Drawings. Securely anchor them at bottom and top. Where they extend above ceiling, anchor to concrete or structural framing to suit site conditions.
 - .14 Install 3 bumpers in interior frames at single opening latch jambs, and 2 at double door frame heads.
 - .15 Fasten removable stops by countersunk Phillips head screws at approximately 225 mm o.c. symmetrically spaced on stop length.
 - .16 Anchor frames at floor by 1.5 mm thick angle clips, welded to frame and provided with two holes for floor anchorage.
 - .17 For frames in masonry walls attach adjustable Tee-anchors fabricated from galvanized steel same gauge as frame. Install anchors on each jamb. Install 3 anchors for openings 2285 mm high.
 - .18 For frames in stud walls, weld L clip at bottom of frame for anchor to floor slabs.
- .3 Steel Doors and Panels:
- .1 Fabricate steel doors and panels to a thickness of 45 mm (1-3/4") unless indicated otherwise.

- .2 Insulated doors and panels:
 - .1 Face sheets fabricated from 1.5 mm (0.06") 16-gauge steel.
 - .2 Insulation Core: Polystyrene.
 - .3 Longitudinal edges mechanically interlocked.
 - .1 Adhesive assisted with edge seams visible.
- .3 Interior Doors and Panels:
 - .1 Face sheets fabricated from 1.5 mm (0.06") 16-gauge steel.
 - .2 Honeycomb core
 - .3 Longitudinal edges mechanically interlocked
 - .1 Adhesive assisted with edge seams visible.
- .4 Temperature Rise Rated Doors and Panels:
 - .1 Face sheets fabricated from 1.3 mm (0.05") 18-gauge steel.
 - .2 TRR asbestos free core.
 - .3 Longitudinal edges mechanically interlocked.
- .5 Fabricate of composite metal face construction with each face formed from flush sheet steel without visible seams, free of scale, pitting, coil brakes, buckles, and waves.
- .6 Formed edges shall be true and straight with minimum radius for the thickness of steel used.
- .7 Lock and hinge edges shall be beveled 3 mm in 50 mm (1/8" in 2") unless hardware or door swing dictates otherwise.

- .8 Top and bottom of doors shall be provided with inverted, recessed, 1.5 mm (0.06) 16-gauge steel end channels, welded to each face sheet at 50 mm (2") on centre maximum.
- .9 Prior to shipment, mark each door with an identification number as shown on the approved submittal drawings.
- .10 Exterior doors shall be provided with factory installed flush PVC top caps. Fire labelled exterior doors shall be provided with factory installed flush steel top caps.
- .11 Blank, reinforce, drill, and tap doors for mortised, templated hardware. Locate to manufacturer's standard unless indicated otherwise.
- .12 Holes 12.7 mm (1/2") and larger shall be factory prepared.
- .13 Glazing:
 - .1 For glazing materials up to and including 8 mm (5/16") thick, doors shall be provided with 1 mm (0.04") 20-gauge steel glazing trim and snap-in glazing stops.
 - .2 For glazing materials greater than 8 mm (5/16") thick, doors shall receive 1 mm (0.04") 20-gauge steel trim and screw fixed glazing stops. Screws shall be #6 x 32 mm (1-1/4") oval head Tek™ (self-drilling) type at 305 mm (12") on centre maximum.
 - .3 Glazing trim and stops shall be accurately fitted (within 0.39 mm (0.015") tolerance), butted at corners, with removable glazing stops located on the 'push' side of the door.
- .14 Fabricate closing stiles of paired doors as indicated or scheduled.
- .15 Where indicated in Schedule, prepare doors and panels for installation of fire-rated door grilles. If required to meet door grille manufacturer's rated design, provide reinforcement around door grille opening.
- .4 Finishing:
 - .1 File and grind exposed welds smooth so that assemblies have appearance of one-piece construction. Fill depressions with metal filler and finished.

- .2 For primed surfaces, clean, scrape and remove rust, mill scale, grease, and other surface deposits from steel following fabrication. Apply full smooth coat of primer in shop. Force paint into corners and open spaces.
- .3 For surfaces with zinc coating, clean and smooth ground surfaces at welds, fill if necessary, and coat all areas from which galvanizing has been removed with zinc rich paint coating of 0.1 mm minimum.

Part 3 Execution

3.1. EXAMINATION

- .1 Take field dimensions of construction into which fabrications of this Section are incorporated before they are fabricated. Field adaption of work fabricated in error or without field check will not be allowed without approval.

3.2. INSTALLATION

- .1 Pressed Steel Frames:
 - .1 Setting up of pressed steel frames in masonry walls is included in Section 06200.
 - .2 Building in of pressed steel frames is included in Section 04200 of Specification.
 - .3 Setting up and building in of pressed steel frames in metal stud drywall partitions is included in Section 05500 and Section 09250.
 - .4 Secure frames to floor construction with two fasteners each jamb, set and brace securely to maintain true alignment until built in.
- .2 Doors:
 - .1 Wood Doors by Section 08210, installation by Section 06200 finish hardware supplied and installed by Section 08710.

3.3. ADJUSTMENT AND CLEANING

- .1 Refinish damaged and defective fabrications before completion. Refinish exposed surfaces to ensure that no variation in appearance is discernible.

- .2 Clean surfaces in preparation for specified finishing at completion of installation.
- .3 Final cleaning is specified in Section 01710.

END OF SECTION

PART 1 - GENERAL

.1 Description

.1 General Requirements

Division 1 and General Requirements is a part of this Section and shall apply as if repeated here.

.2 Work Performed by Other Sections Related to This Section is Specified in

Section 08110: Metal Doors and Frames
Section 08710: Supply of Hardware
Section 09900: Painting and Finishing

.3 Installation of Work Supplied by This Section is Specified in

Section 06 10 00

.2 Quality Assurance

.1 Manufacturer Qualifications

Manufacturers approved for fabrication of doors specified in this Section are

- Super Structure Door Co. of Canada Limited
- Cambridge Doors
- Premium Forest
- Premdor Inc.
- Or Approved alternative

.2 Requirements of Regulatory Agencies

- .1 Construct fire rated doors of indicated ratings in accordance with validating label requirements and as otherwise required by jurisdictional authorities.
- .2 Ensure that fire rated doors, together with specified frames, hardware and installation, meet requirements of NFPA No. 80, Standard for, Fire Doors and Windows, as adopted by Insurance Advisory Organization, and attach ULC labels for specified rating.

.3 References

.1 Reference Standards

Reference standards quoted in Contract Documents refer to:

- a. Architectural Woodwork Standards 1st Edition 2009 Published jointly by the Architectural Woodwork Institute (AWI), the Architectural Woodwork Manufacturer Association of Canada (AWMAC), and the Woodwork Institute (WI).
- b. ANSI/WDMA I.S. 1A-04 Industry Standard for Architectural Wood Doors.

- c. CAN/ULC S-104 Standard Method for Fire Tests of Door Assemblies.
- d. ASTM E2074-00 Standard Test Method for Fire Tests of Door Assemblies.
- e. NFPA 80 Standard for Fire Doors and Other Opening Protectives.
- f. NFPA 252 Standard Method of Fire Tests of Door Assemblies.
- g. ITS/Warnock Hersey Mark for Fire Door Test Certification.
- h. NFPA 80-1999; Fire Doors and Windows.
- i. Underwriter's Laboratories of Canada – "List of equipment & materials" Volume II Building Construction.

.4 Delivery, Storage, and Handling

- .1 Package doors: identify with labels.
- .2 Store doors flat at site in piles with bottom face on bottom of piles protected from moisture by water resistant material under skids supporting piles, top of piles covered, and air circulation provided at sides of piles.
- .3 Protect fire rated doors from moisture continuously from time of manufacture to completion of building.

.5 Site Conditions

.1 Environmental Requirements

- .1 Install doors only in areas that have dried out and where no further installation of damp materials is contemplated.
- .2 Moisture readings of building surfaces at storage and installation locations shall not exceed 15%.

.6 Warranty

.1 Extended Warranty

- .1 Submit warranty for wood doors specified this Section covering period for 2 years beyond the expiration of the warranty period specified in the General Conditions to the Contract.
- .2 Defects in doors shall include, but not be restricted to, surface blemishes, showing of core ghost lines, splitting, delamination, sagging, deterioration of core, and warping and twisting in excess of deformation allowed by CSA Standard 0132.2.
- .3 Replacement under the warranty shall include fitting, installation, reinstallation of hardware, grilles and glass, and finishing to match replaced door.

PART 2 - PRODUCTS

.1 General

- .1 Wood doors to meet or exceed AWI 7th Edition Version 1.2 1999.
- .2 Doors shall be pre-fitted, bevelled and machines for mortise hardware items as per templates and approved hardware schedules provided.
- .3 Doors shall be factory finished.
- .4 Flush Interior Doors: 45mm thick, solid core construction, AWI type construction.

.2 **Materials**

a) **MATERIALS**

i) **Flush Wood Doors:**

- 1) Doors shall meet the requirements of ANSI.WDMA I.S. 1A-04 Extra Heavy Duty performance level.
- 2) Faces of wood veneered doors shall be AA Grade, select Maple, rotary cut, uniform white. **Doors to be factory finished, clear coat, seal top and bottom of doors.**
- 3) Core for non-rated doors shall be Particleboard with a minimum of 28-32 PCF (513 kg/m³) LD-2.
- 4) Cores for 45 minute fire-rated doors shall be agrifibre core.
- 5) Stiles for non-rated doors shall be structural composite lumber (100mm) laminated to 0.5" (13mm) thick minimum hardwood edging.
- 6) Top and bottom rails for non-rated doors shall be structural composite lumber (100mm) laminated to 0.5" (13mm) thick minimum hardwood edging.
- 7) Stiles and rails for fire-rated wood doors shall be the standard of the door manufacturer and shall conform to the requirements of the manufacturer's labeling agency.
- 8) Crossband shall be composite crossband. Wood crossband is not permitted.
- 9) Adhesives shall be Type 1 adhesives.
- 10) Approved doors by manufacturers: Boccam 8400, Baillargeon 8500-ME, Lambton Doors 5-8300-ME.

b) **Glazing Stops:**

- 1) Non-rated glazing stops: white maple, 11mm square profile (Lambton Doors LB7 or equivalent).
- 2) Fire-rated glazing stops: VSL - Slimline Low Profile Beveled Vision Lite, 20 gauge CRS frame, 6mm trim with radius corners, mitered and welded. Continuous glass retainer, countersunk mounting holes in the bevel on non-corridor side. #8 x 1" flathead phillips SMS to match finish. Powder Coat Finish: (S) Sand.

2.2. **FABRICATION**

- a. Flush wood doors shall be Premium Grade in accordance with the Grade requirements specified in the Architectural Woodwork Standards 1st Edition 2009, or as herein otherwise specified.
- b. Doors shall be 5 ply construction.
- c. Stiles and rails shall be fully bonded to core and assembled unit shall be abrasive planed prior to lamination of faces.
- d. Doors shall be assembled using Type 1 adhesive.
- e. Doors details shall be indicated on the door schedule.

- f. Edges for veneered doors shall be Type A of the same species as the face veneer. Type B, wood veneered edges are not permitted.
- g. Fire-rated doors shall be of the construction standard of the manufacturer and conform to the requirements of all applicable labeling agencies.
- h. Provide blocking as required for surface mounted hardware to prevent the need for through-bolting.
- i. Doors shall be factory undersized and factory machined for all door hardware.
- j. Doors shall have factory drilled pilot holes to accept wood screws at all hinge location.
- k. Where electrical hardware is specified in hardware groups or approved finish hardware schedule, wood door product shall have 1/2" wire raceway factory machined drilled from current transfer to electrical hardware location. See section 08710 for openings that require electric hardware.
- l. Pairs of doors shall be book matched.

PART 3 - EXECUTION

.1 Installation

- a. Install non-rated and fire-rated doors in accordance with NFPA 80, manufacturer's instructions and to ITS/Warnock Hersey requirements.
- b. Allow a fitting clearance of 1/8" (3mm).
- c. Trim non-rated door widths as required by cutting equally on both edges. Reseal and refinish all cut or planed surfaces immediately to match factory finish.
- d. Trim door height by cutting bottom edges to a maximum 3/4" (19mm).
- e. Trim fire door heights at bottom edge only in accordance with fire rating requirements.
- f. Do not trim fire-rated door widths.
- g. Coordinate installation of doors with installation of frames and hardware.
- h. Install door louvres and light kits plumb and level.
- i. Adjust doors for smooth and balanced door movement and operation.

End of Section

Part 1 General

1.1. DESCRIPTION

.1 General Requirements:

.1 Division 1 and General Requirements is a part of this Section and shall apply as if repeated here.

.2 Hardware Specified in this Section, Supplied and Installed:

.1 Section 08 11 00: Metal Doors and Frames

.3 Selected hardware suppliers will become a Subcontractor of the Contractor.

1.2. QUALITY ASSURANCE

.1 Requirements of Regulatory Agencies:

.1 Install only ULC or ULI listed hardware for fire-rated doors and frames.

1.3. SUBMITTALS

.1 Samples: Submit samples of each hardware item.

.2 Templates: Submit templates to Contractor for use by installers and fabricators as required for proper location and installation of hardware.

.3 Maintenance and Operating Instructions: Submit maintenance, operating and installation instructions for installation purposes and for incorporation in Project Data Book.

DELIVERY, STORAGE AND HANDLING

.4 Package hardware and label with description of contents and installation location. Refer to hardware list designation, and with door number when applicable.

.5 Deliver hardware to location at building site designated by Contractor.

1.4. WARRANTY

.1 Extended Warranty:

- .1 Warranty contained in GC24 is, with respect to Section 08710, extended from 1 year to 5 years.
- .2 Contractor hereby warrants that system is suitable for use in this type of installation.
- .3 Contractor shall arrange with Architect and/or Owner, about 1 month before warranty expires, to visit site, examine the hardware, and make necessary repairs. Should Contractor fail to make such arrangement through no fault or neglect of Owner or Architect, then period of warranty shall extend to one month after such arrangement is made.

Part 2 Products

2.1. PRODUCTS

- .1 Finish hardware fabricated of same materials shall have consistent colour and finish throughout Project.
- .2 Supply with specified hardware screws, bolts, expansion shields, inserts, and other items and parts required for complete installation and functioning.
- .3 Refer to Hardware Schedule attached at the end of this Section.
- .4 Keying of cylinders to be done by LKDSB vendor, Swain Bros., 374 Lacroix St., Chatham, 519-352-1031.

Part 3 Execution

3.1. EXAMINATION

- .1 Before supplying materials, ensure by a check of Drawings, shop drawings and details prepared for the Project, that listed hardware is suitable by dimensions and function for intended purpose. Inform Architect of discrepancies.

3.2. INSTALLATION

- .1 Provide instructions required for preparation of doors and frames to the appropriate fabricators.
- .2 Provide instructions required for installation of hardware to Section 06200, and other Sections as applicable.

- .3 Provide assistance and supervision of installation when requested.

3.3. ADJUSTMENT

- .1 Verify that installed hardware functions properly and instruct installers accordingly of requirements and procedures for adjustments to ensure satisfactory operation.

END OF SECTION



2090 Shirley Drive Kitchener Ontario N2B 0A3

Phone: (519) 578.1000 Toll Free: (800) 265.8959 Fax: (519) 578.3262

Schedule of Finish Hardware

ARCHITECT/DESIGNER: 1721 ARCHITECTS
280 QUEENS AVE. 1Q
LONDON ON N6B 1X3
PHONE - 519-439-0611
FAX -

CONTRACTOR:

PHONE -
FAX -

PROJECT: WCDSB - ST. ANNE CES RENO
127 ELGIN ST. N
CAMBRIDGE ON
7967

PROJECT CONSULTANT: VISHAL KACHCHHI

PREPARED: February 23, 2026

REVISED: February 23, 2026

SUBMITTAL



Scan to check
out our website

DOOR INDEX

Mark	Heading #	Mark	Heading #	Mark	Heading #
10B	10B	D-109A	D-109A	D-124B	D-124B
D-000	D-000	D-110	D-110	D-124C	D-124C
D-001	D-001	D-110A	D-110A	D-124D	D-124D
D-101	D-101	D-111	D-111	D-125	D-125
D-101A	D-101A	D-112	D-112	D-127	D-127
D-101B	D-101B	D-113	D-113	D-129	D-129
D-101C	D-101C	D-115	D-115	D-131	D-131
D-101D	D-101D	D-116	D-116	D-132	D-132
D-101E	D-101E	D-117	D-117	D-135	D-135
D-102	D-102	D-118	D-118	D-135-1	D-135-1
D-102A	D-102A	D-119	D-119	D-135A	D-135A
D-103	D-103	D-120	D-120	D-135B	D-135B
D-103A	D-103A	D-121	D-121	D-135C	D-135C
D-103B	D-103B	D-122-1	D-122-1	D-135D	D-135D
D-104	D-104	D-122-2	D-122-2	D-135E	D-135E
D-104A	D-104A	D-122A	D-122A	D-136	D-136
D-106	D-106	D-122B	D-122B	D-137	D-137
D-106A	D-106A	D-122C	D-122C	D-138	D-138
D-108	D-108	D-123	D-123	D-139	D-139
D-108A	D-108A	D-124	D-124	D-139A	D-139A
D-109	D-109	D-124A	D-124A	D-140	D-140



KNELLS DOOR & HARDWARE

WCDSB - ST. ANNE CES RENO

2090 SHIRLEY DRIVE

Control No.7967

KITCHENER

ON

N2B 0A3

7967

Tel: 519-578-1000

Fax: 519-578-3262

DOOR INDEX

Mark	Heading #	Mark	Heading #	Mark	Heading #
D-140A	D-140A				
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D-143	D-143				
D-143A	D-143A				
D-144	D-144				
D-145	D-145				
D-146	D-146				
D-147	D-147				
EXIT 9	EXIT 09				
A	A				
B	B				



KNELLS DOOR & HARDWARE

WCDSB - ST. ANNE CES RENO

2090 SHIRLEY DRIVE

Control No.7967

KITCHENER

ON

N2B 0A3


7967

Tel: 519-578-1000

Fax: 519-578-3262

Hardware Finishes

Finish	Description
26D	SATIN CHROME, PLATED
32D	SATIN STAINLESS STEEL, 300 SERIES
626	SATIN CHROMIUM
630	SATIN STAINLESS STEEL
689	POWDER COAT, ALUMINUM
ALUMINUM	ALUMINUM
C.A.	CLEAR ANODIZED
C26D	SATIN CHROMIUM
C32D	STAINLESS STEEL, SATIN
CL	CLEAR
PC	PRIME COAT
US26D	SATIN CHROME, PLATED
US32D	SATIN STAINLESS STEEL

	KNELLS DOOR & HARDWARE	WCDSB - ST. ANNE CES RENO
	2090 SHIRLEY DRIVE KITCHENER ON N2B 0A3 Tel: 519-578-1000 Fax: 519-578-3262	Control No.7967 7967

WCDSB - ST. ANNE CES RENO
127 ELGIN ST. N

Heading # 10B

1 SGL DOOR 10B LEARNING COMMONS TO OFFICE

90° LH

exst x exst x 45 WD Door/ EXST Frame

NON-RTD Door/NON-RTD Frame

1	ENTRY LOCK	175AB X E7 X G3	26D	MRK
1	CYLINDER	20J200V1-26-DQM (AB,F)	626	G&A
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL

ALL OTHER EXISTING HARDWARE TO REMAIN.

Heading # A

1 PR DOORS A CORRIDOR FROM CORRIDOR

90° RHR,LHR

0/0 x exst x 45 Door/ Frame

NON-RTD Door/NON-RTD Frame

1	EXIT DEVICE TRIM ONLY	713ETL X KD	US26D	SAR
1	RIM CYLINDER	10J0403-26-DQM (RIM CYLINDER - SARGENT)	626	G&A

ALL OTHER EXISTING HARDWARE TO REMAIN.

Heading # B

1 PR DOORS B CORRIDOR FROM CORRIDOR

90° RHR,LHR

0/0 x exst x 45 Door/ Frame

NON-RTD Door/NON-RTD Frame

1	EXIT DEVICE TRIM ONLY	713ETL X KD	US26D	SAR
1	RIM CYLINDER	10J0403-26-DQM (RIM CYLINDER - SARGENT)	626	G&A

ALL OTHER EXISTING HARDWARE TO REMAIN.

Heading # D-000

1 DE D-000 ADDITION 1 FROM ORIGINAL BLDG1965

90° LHR,LHR

exst/0 x exst x 45 Door/ Frame

NON-RTD Door/NON-RTD Frame

2	CONTINUOUS HINGE	SL11 CL HD600 X 2108MM X SDTF	CL	SEL
2	SVR EXIT DEVICE EXIT ONLY OR DUMMY TRIM	NB-12-8710J 950MMW X 2150MMH X NO TRIM X 646 X 41MMAFF	US32D	SAR
2	CLOSER, PARALLEL ARM	4040XP.RWPA.689.SRT	689	LCN
2	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL
2	ELECTROMAGNETIC HOLDER	EM 508-24120	689	DKB

EXISTING DOORS TO REMAIN - PREP DOORS TO SUIT NEW HARDWARE AS REQUIRED.

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Heading # D-001

1 SGL DOOR D-001 CORRIDOR TO MECH/ELECTRICAL ROOM			90°	RH
914 x 2032 x 45 HMD Door/ EXST Frame			NON-RTD Door/NON-RTD Frame	
3	HINGE, 4 1/2, STD WT	MPB79 114MM X 102MM	26D	MCK
1	STOREROOM LOCK	175F X E7 X G3	26D	MRK
1	CYLINDER	20J200V1-26-DQM (AB,F)	626	G&A
1	CLOSER, REGULAR ARM	4040XP.RWPA.689.SRT	689	LCN
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL
1	WALL STOP	GSH 240	C26D	GAL

Heading # D-101

1 SGL DOOR D-101 HALLWAY TO MAIN OFFICE			90°	RH
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
1	INTRUDER LOCK	195DB X G3	26D	MRK
2	CYLINDER	20J200V0-26-DQM (DB,S)	626	G&A
ALL OTHER EXISTING HARDWARE TO REMAIN.				

Heading # D-101A

1 SGL DOOR D-101A MAIN OFFICE TO VICE PRINCIPAL OFFICE			90°	RH
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
1	ENTRY LOCK	175AB X E7 X G3	26D	MRK
1	CYLINDER	20J200V1-26-DQM (AB,F)	626	G&A
ALL OTHER EXISTING HARDWARE TO REMAIN.				

Heading # D-101B

1 SGL DOOR D-101B MAIN OFFICE TO PRINCIPAL OFFICE			90°	RH
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
1	ENTRY LOCK	175AB X E7 X G3	26D	MRK
1	CYLINDER	20J200V1-26-DQM (AB,F)	626	G&A
ALL OTHER EXISTING HARDWARE TO REMAIN.				

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Heading # D-101C

1 SGL DOOR D-101C MAIN OFFICE TO MEETING RM			90°	LH
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
1	ENTRY LOCK	175AB X E7 X G3	26D	MRK
1	CYLINDER	20J200V1-26-DQM (AB,F)	626	G&A
ALL OTHER EXISTING HARDWARE TO REMAIN.				

Heading # D-101D

1 SGL DOOR D-101D MAIN OFFICE TO HEALTH RM			90°	RH
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
EXISTING DOOR AND HARDWARE TO REMAIN.				

Heading # D-101E

1 SGL DOOR D-101E HEALTH RM TO BF W/R			90°	RH
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
1	PASSAGE LEVER	175N X E7	26D	MRK
1	INDICATOR DEADBOLT	D271 X 30-253 X 10-094	626	FAL
ALL OTHER EXISTING HARDWARE TO REMAIN. DEADLOCK PREP IN DOOR BY OTHERS.				

Heading # D-102

1 SGL DOOR D-102 HALLWAY TO KINDERGARTEN			90°	LH
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
1	INTRUDER LOCK	195DB X G3	26D	MRK
2	CYLINDER	20J200V0-26-DQM (DB,S)	626	G&A
ALL OTHER EXISTING HARDWARE TO REMAIN.				

Heading # D-102A

1 SGL DOOR D-102A KINDERGARTEN 102 TO WASHROOM			°	LH
x x Door/ Frame			NON-RTD Door/NON-RTD Frame	
3	HINGE, 4 1/2, STD WT	MPB79 114MM X 102MM	26D	MCK
1	PASSAGE LEVER	175N X E7	26D	MRK
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL
1	WALL STOP	GSH 240	C26D	GAL

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Heading # D-103

1 SGL DOOR D-103 HALLWAY TO WORK RM			90°	RH
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
1 ENTRY LOCK	175AB X E7 X G3		26D	MRK
1 CYLINDER	20J200V1-26-DQM (AB,F)		626	G&A
ALL OTHER EXISTING HARDWARE TO REMAIN.				

Heading # D-103A

1 SGL DOOR D-103A WORK RM TO STORE			90°	LH
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
1 STOREROOM LOCK	175F X E7 X G3		26D	MRK
1 CYLINDER	20J200V1-26-DQM (AB,F)		626	G&A
ALL OTHER EXISTING HARDWARE TO REMAIN.				

Heading # D-103B

1 SGL DOOR D-103B WORK RM TO MAIN OFFICE			90°	LH
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
3 HINGE, 4 1/2, STD WT	MPB79 114MM X 102MM		26D	MCK
1 CYLINDER	20J200V1-26-DQM (AB,F)		626	G&A
ALL OTHER EXISTING HARDWARE TO REMAIN.				

Heading # D-104

1 SGL DOOR D-104 HALLWAY TO KINDERGARTEN			90°	RH
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
1 INTRUDER LOCK	195DB X G3		26D	MRK
2 CYLINDER	20J200V0-26-DQM (DB,S)		626	G&A
ALL OTHER EXISTING HARDWARE TO REMAIN.				

Heading # D-104A

1 SGL DOOR D-104A KINDERGARTEN 104 TO WASHROOM			°	RH
x x Door/ Frame			NON-RTD Door/NON-RTD Frame	
3 HINGE, 4 1/2, STD WT	MPB79 114MM X 102MM		26D	MCK
1 PASSAGE LEVER	175N X E7		26D	MRK
1 KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM		US32D	GAL
1 WALL STOP	GSH 240		C26D	GAL

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Heading # D-106

1 SGL DOOR D-106 CORRIDOR TO KINDERGARTEN

90° LH

exst x exst x 45 Door/ Frame

NON-RTD Door/NON-RTD Frame

1	INTRUDER LOCK	195DB X G3	26D	MRK
2	CYLINDER	20J200V0-26-DQM (DB,S)	626	G&A

ALL OTHER EXISTING HARDWARE TO REMAIN.

Heading # D-106A

1 SGL DOOR D-106A KINDERGARTEN 106 TO WASHROOM

° RH

x x Door/ Frame

NON-RTD Door/NON-RTD Frame

3	HINGE, 4 1/2, STD WT	MPB79 114MM X 102MM	26D	MCK
1	PASSAGE LEVER	175N X E7	26D	MRK
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL
1	WALL STOP	GSH 240	C26D	GAL

Heading # D-108

1 SGL DOOR D-108 CORRIDOR TO CLASSROOM

90° LH

exst x exst x 45 Door/ Frame

NON-RTD Door/NON-RTD Frame

1	INTRUDER LOCK	195DB X G3	26D	MRK
2	CYLINDER	20J200V0-26-DQM (DB,S)	626	G&A

ALL OTHER EXISTING HARDWARE TO REMAIN.

Heading # D-108A

1 SGL DOOR D-108A CLASSROOM 108 FROM CLASSROOM 110

° RHR

x x Door/ Frame

NON-RTD Door/NON-RTD Frame

3	HINGE, 4 1/2, HVY WT	MPB68 114MM X 114MM	26D	MCK
1	INSTITUTION LOCK	195DW X KD	US26D	MRK
2	CYLINDER	20J200V1-26-DQM (AB,F)	626	G&A
1	OVERHEAD STOP	904S	US32D	GLY
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL

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Heading # D-109

1 SGL DOOR D-109 CORRIDOR TO STAFF RM			90°	RH
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
1	ENTRY LOCK	175AB X E7 X G3	26D	MRK
1	CYLINDER	20J200V1-26-DQM (AB,F)	626	G&A
ALL OTHER EXISTING HARDWARE TO REMAIN.				

Heading # D-109A

1 SGL DOOR D-109A STAFF RM TO WORK RM			90°	RH
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
EXISTING DOOR AND HARDWARE TO REMAIN.				

Heading # D-110

1 SGL DOOR D-110 CORRIDOR TO CLASSROOM			90°	RH
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
1	INTRUDER LOCK	195DB X G3	26D	MRK
2	CYLINDER	20J200V0-26-DQM (DB,S)	626	G&A
ALL OTHER EXISTING HARDWARE TO REMAIN.				

Heading # D-110A

1 SGL DOOR D-110A CLASSROOM 110 TO CLASSROOM 112			°	RH
x x Door/ Frame			NON-RTD Door/NON-RTD Frame	
3	HINGE, 4 1/2, HVY WT	MPB68 114MM X 114MM	26D	MCK
1	INSTITUTION LOCK	195DW X KD	US26D	MRK
2	CYLINDER	20J200V1-26-DQM (AB,F)	626	G&A
1	OVERHEAD STOP	904S	US32D	GLY
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL

Heading # D-111

1 SGL DOOR D-111 CORRIDOR TO CUSTODIAN			90°	LH
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
1	STOREROOM LOCK	175F X E7 X G3	26D	MRK
1	CYLINDER	20J200V1-26-DQM (AB,F)	626	G&A
ALL OTHER EXISTING HARDWARE TO REMAIN.				

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Heading # D-112

1 SGL DOOR D-112 CORRIDOR TO CLASSROOM			90°	LH
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
1	INTRUDER LOCK	195DB X G3	26D	MRK
2	CYLINDER	20J200V0-26-DQM (DB,S)	626	G&A
ALL OTHER EXISTING HARDWARE TO REMAIN.				

Heading # D-113

1 SGL DOOR D-113 CORRIDOR TO UNIVERSAL W/R			90°	LH
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
1	STOREROOM LOCK	175F X E7 X G3	26D	MRK
1	CYLINDER	20J200V1-26-DQM (AB,F)	626	G&A
ALL OTHER EXISTING HARDWARE TO REMAIN.				

Heading # D-115

1 SGL DOOR D-115 CORRIDOR TO BF W/R			90°	RH
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
1	PASSAGE LEVER	175N X E7	26D	MRK
1	INDICATOR DEADBOLT	D271 X 30-253 X 10-094	626	FAL
ALL OTHER EXISTING HARDWARE TO REMAIN. DEADLOCK PREP IN DOOR BY OTHERS.				

Heading # D-116

1 SGL DOOR D-116 CORRIDOR TO CLASSROOM			90°	LH
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
1	INTRUDER LOCK	195DB X G3	26D	MRK
2	CYLINDER	20J200V0-26-DQM (DB,S)	626	G&A
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL
ALL OTHER EXISTING HARDWARE TO REMAIN.				

Heading # D-117

1 SGL DOOR D-117 CORRIDOR TO CLASSROOM			90°	RH
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
1	INTRUDER LOCK	195DB X G3	26D	MRK
2	CYLINDER	20J200V0-26-DQM (DB,S)	626	G&A
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL
ALL OTHER EXISTING HARDWARE TO REMAIN.				

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Heading # D-118

1 SGL DOOR D-118 CORRIDOR TO CLASSROOM			90°	RH
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
1	INTRUDER LOCK	195DB X G3	26D	MRK
2	CYLINDER	20J200V0-26-DQM (DB,S)	626	G&A
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL
ALL OTHER EXISTING HARDWARE TO REMAIN.				

Heading # D-119

1 SGL DOOR D-119 CORRIDOR TO CLASSROOM			90°	LH
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
1	INTRUDER LOCK	195DB X G3	26D	MRK
2	CYLINDER	20J200V0-26-DQM (DB,S)	626	G&A
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL
ALL OTHER EXISTING HARDWARE TO REMAIN.				

Heading # D-120

1 SGL DOOR D-120 CORRIDOR TO CLASSROOM			90°	RH
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
1	INTRUDER LOCK	195DB X G3	26D	MRK
2	CYLINDER	20J200V0-26-DQM (DB,S)	626	G&A
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL
ALL OTHER EXISTING HARDWARE TO REMAIN.				

Heading # D-121

1 SGL DOOR D-121 CORRIDOR TO CLASSROOM			90°	LH
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
1	INTRUDER LOCK	195DB X G3	26D	MRK
2	CYLINDER	20J200V0-26-DQM (DB,S)	626	G&A
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL
ALL OTHER EXISTING HARDWARE TO REMAIN.				

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Heading # D-122-1

1 PR DOORS D-122-1 HALLWAY FROM GYMNASIUM

90° RHR,LHR

0/0 x exst x 45 Door/ Frame

NON-RTD Door/NON-RTD Frame

6	HINGE, 4 1/2, HVY WT	MPB68 114MM X 114MM	26D	MCK
2	RIM EXIT DEVICE KEY INSIDE LOCKS/UNLOCKS LEVER	49-12-8816J 950MMW X ETL X 649 X KD	US32D	SAR
1	CYLINDER	10J0200-26-DQM-Z20 (1-1/8 CYLINDER W/ SARGENT T CAM)	626	G&A
1	RIM CYLINDER	10J0403-26-DQM (RIM CYLINDER - SARGENT)	626	G&A
2	OVERHEAD STOP	904S	US32D	GLY
2	CLOSER, REGULAR ARM	4040XP.RWPA.689.SRT	689	LCN
2	KICK PLATE	80A (TAPE) 203MM X DOOR WITDTH LESS 38MM	US32D	GAL
2	MISCELLANEOUS	4040XP-18G.689	689	LCN

Heading # D-122-2

1 PR DOORS D-122-2 HALL FROM GYMNASIUM

90° RHR,LHR

0/0 x exst x 45 Door/ Frame

NON-RTD Door/NON-RTD Frame

6	HINGE, 4 1/2, HVY WT	MPB68 114MM X 114MM	26D	MCK
2	RIM EXIT DEVICE KEY INSIDE LOCKS/UNLOCKS LEVER	49-12-8816J 950MMW X ETL X 649 X KD	US32D	SAR
1	CYLINDER	10J0200-26-DQM-Z20 (1-1/8 CYLINDER W/ SARGENT T CAM)	626	G&A
1	RIM CYLINDER	10J0403-26-DQM (RIM CYLINDER - SARGENT)	626	G&A
2	OVERHEAD STOP	904S	US32D	GLY
2	CLOSER, REGULAR ARM	4040XP.RWPA.689.SRT	689	LCN
2	KICK PLATE	80A (TAPE) 203MM X DOOR WITDTH LESS 38MM	US32D	GAL
2	MISCELLANEOUS	4040XP-18G.689	689	LCN

Heading # D-122A

1 SGL DOOR D-122A GYMNASIUM TO SERVERY

90° LH

exst x exst x 45 Door/ Frame

NON-RTD Door/NON-RTD Frame

1	STOREROOM LOCK	175F X E7 X G3	26D	MRK
1	CYLINDER	20J200V1-26-DQM (AB,F)	626	G&A

ALL OTHER EXISTING HARDWARE TO REMAIN.

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Heading # D-122B

1 SGL DOOR D-122B GYMNASIUM TO STORAGE

90° LH

exst x exst x 45 Door/ Frame

NON-RTD Door/NON-RTD Frame

3	HINGE, 4 1/2, STD WT	MPB79 114MM X 102MM	26D	MCK
1	STOREROOM LOCK	175F X E7 X G3	26D	MRK
1	CYLINDER	20J200V1-26-DQM (AB,F)	626	G&A
1	CLOSER, REGULAR ARM	4040XP.RWPA.689.SRT	689	LCN
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL
1	WALL STOP	GSH 240	C26D	GAL

Heading # D-122C

1 PR DOORS D-122C GYMNASIUM FROM GYM STORAGE

90° RHRA

0/0 x exst x 45 Door/ Frame

NON-RTD Door/NON-RTD Frame

1	CYLINDER	10J0200-26-DQM-Z20 (1-1/8 CYLINDER W/ SARGENT T CAM)	626	G&A
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ALL OTHER EXISTING HARDWARE TO REMAIN.

Heading # D-123

1 SGL DOOR D-123 HALLWAY TO STAFF WR

90° LH

exst x exst x 45 Door/ Frame

NON-RTD Door/NON-RTD Frame

1	STOREROOM LOCK	175F X E7 X G3	26D	MRK
1	CYLINDER	20J200V1-26-DQM (AB,F)	626	G&A

ALL OTHER EXISTING HARDWARE TO REMAIN.

Heading # D-124

1 SGL DOOR D-124 HALLWAY TO CORRIDOR

90° LH

exst x exst x 45 Door/ Frame

NON-RTD Door/NON-RTD Frame

1	INTRUDER LOCK	195DB X G3	26D	MRK
2	CYLINDER	20J200V0-26-DQM (DB,S)	626	G&A
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL

ALL OTHER EXISTING HARDWARE TO REMAIN.

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127 ELGIN ST. N

Heading # D-124A

1 SGL DOOR D-124A CORRIDOR TO NEIGHBOURHOOD ASSOCIATION			90°	RH
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
1 ENTRY LOCK	175AB X E7 X G3		26D	MRK
1 CYLINDER	20J200V1-26-DQM (AB,F)		626	G&A
ALL OTHER EXISTING HARDWARE TO REMAIN.				

Heading # D-124B

1 PR DOORS D-124B COMMUNITY MEETING RM FROM COMMUNITY SPACE			90°	LHRA
0/0 x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
EXISTING DOOR AND HARDWARE TO REMAIN.				

Heading # D-124C

1 SGL DOOR D-124C COMMUNITY MEETING RM FROM SERVERY			90°	RHR
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
1 STOREROOM LOCK	175F X E7 X G3		26D	MRK
1 CYLINDER	20J200V1-26-DQM (AB,F)		626	G&A
ALL OTHER EXISTING HARDWARE TO REMAIN.				

Heading # D-124D

1 SGL DOOR D-124D COMMUNITY MEETING RM TO STORAGE			90°	RH
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
1 STOREROOM LOCK	175F X E7 X G3		26D	MRK
1 CYLINDER	20J200V1-26-DQM (AB,F)		626	G&A
ALL OTHER EXISTING HARDWARE TO REMAIN.				

Heading # D-125

1 SGL DOOR D-125 HALLWAY TO STAFF WR			90°	RH
exst x exst x 45 Door/ Frame			NON-RTD Door/NON-RTD Frame	
1 STOREROOM LOCK	175F X E7 X G3		26D	MRK
1 CYLINDER	20J200V1-26-DQM (AB,F)		626	G&A
ALL OTHER EXISTING HARDWARE TO REMAIN.				

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127 ELGIN ST. N

Heading # D-127

1 SGL DOOR D-127 CORRIDOR TO FEMALE W/R			90°	RH
914 x 2032 x 45 WD Door/ EXST Frame			NON-RTD Door/NON-RTD Frame	
3	HINGE, 4 1/2, HVY WT	MPB68 114MM X 114MM	26D	MCK
1	CLASSROOM DEADBOLT	B663B X 12-631 X 10-094	626	SCH
1	CYLINDER	20J009S4-26-DQM	26D	
1	PUSH PLATE	GSH 81A X 2-SIDED TAPE X 127MM X 508MM	C32D	GAL
1	PULL	4709-1 X #2	C32D	GAL
1	CLOSER, REGULAR ARM	4040XP.RWPA.689.SRT	689	LCN
1	WALL STOP	GSH 240	C26D	GAL
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDTH LESS 38MM	US32D	GAL

Heading # D-129

1 SGL DOOR D-129 CORRIDOR FROM CUSTODIAN			90°	LHR
914 x 2032 x 45 HMD Door/ EXST Frame			NON-RTD Door/NON-RTD Frame	
3	HINGE, 4 1/2, STD WT	MPB79 114MM X 102MM	26D	MCK
1	STOREROOM LOCK	175F X E7 X G3	26D	MRK
1	CYLINDER	20J200V1-26-DQM (AB,F)	626	G&A
1	OVERHEAD STOP	904S	US32D	GLY
1	CLOSER, PARALLEL ARM	4040XP.RWPA.689.SRT	689	LCN
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDTH LESS 38MM	US32D	GAL
1	MISCELLANEOUS	4040XP-18G.689	689	LCN

Heading # D-131

1 SGL DOOR D-131 CORRIDOR TO MALE W/R			90°	LH
914 x 2032 x 45 WD Door/ EXST Frame			NON-RTD Door/NON-RTD Frame	
3	HINGE, 4 1/2, HVY WT	MPB68 114MM X 114MM	26D	MCK
1	CLASSROOM DEADBOLT	B663B X 12-631 X 10-094	626	SCH
1	CYLINDER	20J009S4-26-DQM	26D	
1	PUSH PLATE	GSH 81A X 2-SIDED TAPE X 127MM X 508MM	C32D	GAL
1	PULL	4709-1 X #2	C32D	GAL
1	CLOSER, REGULAR ARM	4040XP.RWPA.689.SRT	689	LCN
1	WALL STOP	GSH 240	C26D	GAL
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDTH LESS 38MM	US32D	GAL

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127 ELGIN ST. N

Heading # D-132

1 SGL DOOR D-132 CORRIDOR TO CUSTODIAN

90° LH

914 x 2032 x 45 WD Door/ EXST Frame

NON-RTD Door/NON-RTD Frame

3	HINGE, 4 1/2, STD WT	MPB79 114MM X 102MM	26D	MCK
1	ENTRY LOCK	175AB X E7 X G3	26D	MRK
1	CYLINDER	20J200V1-26-DQM (AB,F)	626	G&A
1	CLOSER, PARALLEL ARM	4040XP.RWPA.689.SRT	689	LCN
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL
1	WALL STOP	GSH 240	C26D	GAL

Heading # D-135

1 PR DOORS D-135 CORRIDOR FROM LEARNING COMMONS

90° RHR,LHR

914/914 x 2032 x 45 HMD Door/ EXST Frame

NON-RTD Door/NON-RTD Frame

6	HINGE, 4 1/2, HVY WT	MPB68 114MM X 114MM	26D	MCK
2	SVR EXIT DEVICE KEY ENGAGES/DISENGAGES LEVER	NB-LC-12-8743J 950MMW X 2150MMH X ETL X 646 X 41MMAFF	US32D	SAR
2	RIM CYLINDER	10J0403-26-DQM (RIM CYLINDER - SARGENT)	626	G&A
2	OVERHEAD STOP	904S	US32D	GLY
2	CLOSER, PARALLEL ARM	4040XP.RWPA.689.SRT	689	LCN
2	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL

Heading # D-135-1

1 PR DOORS D-135-1 CORRIDOR FROM LEARNING COMMONS

90° RHR,LHR

914/914 x 2032 x 45 HMD Door/ EXST Frame

NON-RTD Door/NON-RTD Frame

6	HINGE, 4 1/2, HVY WT	MPB68 114MM X 114MM	26D	MCK
2	SVR EXIT DEVICE KEY ENGAGES/DISENGAGES LEVER	NB-LC-12-8743J 950MMW X 2150MMH X ETL X 646 X 41MMAFF	US32D	SAR
2	RIM CYLINDER	10J0403-26-DQM (RIM CYLINDER - SARGENT)	626	G&A
2	OVERHEAD STOP	904S	US32D	GLY
2	CLOSER, PARALLEL ARM	4040XP.RWPA.689.SRT	689	LCN
2	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL

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127 ELGIN ST. N

Heading # D-135A

1 SGL DOOR D-135A CORRIDOR TO LEARNING COMMONS STAGE

90° RH

914 x 2032 x 45 WD Door/ EXST Frame

NON-RTD Door/NON-RTD Frame

3	HINGE, 4 1/2, HVY WT	MPB68 114MM X 114MM	26D	MCK
1	INTRUDER LOCK	195DB X G3	26D	MRK
2	CYLINDER	20J200V0-26-DQM (DB,S)	626	G&A
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL
1	WALL STOP	GSH 240	C26D	GAL

Heading # D-135B

1 PR DOORS D-135B LEARNING COMMONS FROM STORAGE

90° RHRA

914/914 x 2032 x 45 WD Door/ EXST Frame

NON-RTD Door/NON-RTD Frame

6	HINGE, 4 1/2, HVY WT	MPB68 114MM X 114MM	26D	MCK
1	FLUSH BOLT, AUTOMATIC	FB31P-12-MD	US32D	IVE
1	STOREROOM LOCK	175F X E7 X G3	26D	MRK
1	CYLINDER	20J200V1-26-DQM (AB,F)	626	G&A
1	OVERHEAD STOP	904S	US32D	GLY
1	CLOSER, PARALLEL ARM	4040XP.RWPA.689.SRT	689	LCN
1	MISCELLANEOUS	4040XP-18G.689	689	LCN

Heading # D-135C

1 SGL DOOR D-135C LEARNING COMMONS TO OFFICE

90° RH

exst x exst x 45 WD Door/ EXST Frame

NON-RTD Door/NON-RTD Frame

1	ENTRY LOCK	175AB X E7 X G3	26D	MRK
1	CYLINDER	20J200V1-26-DQM (AB,F)	626	G&A
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL

ALL OTHER EXISTING HARDWARE TO REMAIN.

WCDSB - ST. ANNE CES RENO
127 ELGIN ST. N

Heading # D-135D

1 SGL DOOR D-135D LEARNING COMMONS TO LEARNING COMMONS STAGE			90°	LH
914 x 2032 x 45 WD Door/ EXST Frame			NON-RTD Door/NON-RTD Frame	
3	HINGE, 4 1/2, HVY WT	MPB68 114MM X 114MM	26D	MCK
1	INTRUDER LOCK	195DB X G3	26D	MRK
2	CYLINDER	20J200V0-26-DQM (DB,S)	626	G&A
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL
1	WALL STOP	GSH 240	C26D	GAL

Heading # D-135E

1 SGL DOOR D-135E LEARNING COMMONS TO OFFICE			90°	LH
exst x exst x 45 WD Door/ EXST Frame			NON-RTD Door/NON-RTD Frame	
1	ENTRY LOCK	175AB X E7 X G3	26D	MRK
1	CYLINDER	20J200V1-26-DQM (AB,F)	626	G&A
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL

ALL OTHER EXISTING HARDWARE TO REMAIN.

Heading # D-136

1 SGL DOOR D-136 CORRIDOR TO W/R 136			90°	LH
exst x exst x 45 WD Door/ EXST Frame			NON-RTD Door/NON-RTD Frame	
3	HINGE, 4 1/2, STD WT	MPB79 114MM X 102MM	26D	MCK
1	PASSAGE LEVER	175N X E7	26D	MRK
1	INDICATOR DEADBOLT	D271 X 30-253 X 10-094	626	FAL
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL
1	WALL STOP	GSH 240	C26D	GAL

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127 ELGIN ST. N

Heading # D-137

1 SGL DOOR D-137 CORRIDOR FROM CUSTODIAN

90° RHR

914 x 2032 x 45 HMD Door/ EXST Frame

NON-RTD Door/NON-RTD Frame

3	HINGE, 4 1/2, STD WT	MPB79 114MM X 102MM	26D	MCK
1	STOREROOM LOCK	175F X E7 X G3	26D	MRK
1	CYLINDER	20J200V1-26-DQM (AB,F)	626	G&A
1	OVERHEAD STOP	904S	US32D	GLY
1	CLOSER, PARALLEL ARM	4040XP.RWPA.689.SRT	689	LCN
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL
1	MISCELLANEOUS	4040XP-18G.689	689	LCN

Heading # D-138

1 SGL DOOR D-138 CORRIDOR TO LAUNDRY ROOM 138

90° LH

exst x exst x 45 WD Door/ EXST Frame

NON-RTD Door/NON-RTD Frame

3	HINGE, 4 1/2, STD WT	MPB79 114MM X 102MM	26D	MCK
1	CLASSROOM LOCK	175S X G3	26D	MRK
1	CYLINDER	20J200V0-26-DQM (DB,S)	626	G&A
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL

Heading # D-139

1 SGL DOOR D-139 CORRIDOR TO LEARNING COMMONS STORAGE

90° LH

914 x 2032 x 45 HMD Door/ EXST Frame

NON-RTD Door/NON-RTD Frame

3	HINGE, 4 1/2, STD WT	MPB79 114MM X 102MM	26D	MCK
1	STOREROOM LOCK	175F X E7 X G3	26D	MRK
1	CYLINDER	20J200V1-26-DQM (AB,F)	626	G&A
1	CLOSER, REGULAR ARM	4040XP.RWPA.689.SRT	689	LCN
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL
1	WALL STOP	GSH 240	C26D	GAL

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127 ELGIN ST. N

Heading # D-139A

1 SGL DOOR D-139A LEARNING COMMONS STORAGE TO LEARNING COMMONS STAGE

90° LH

914 x 2032 x 45 HMD Door/ EXST Frame

NON-RTD Door/NON-RTD Frame

3	HINGE, 4 1/2, STD WT	MPB79 114MM X 102MM	26D	MCK
1	STOREROOM LOCK	175F X E7 X G3	26D	MRK
1	CYLINDER	20J200V1-26-DQM (AB,F)	626	G&A
1	CLOSER, REGULAR ARM	4040XP.RWPA.689.SRT	689	LCN
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL
1	WALL STOP	GSH 240	C26D	GAL

Heading # D-140

1 SGL DOOR D-140 CORRIDOR TO KINDERGARTEN CL#140

90° RH

914 x 2032 x 45 WD Door/ EXST Frame

NON-RTD Door/NON-RTD Frame

3	HINGE, 4 1/2, STD WT	MPB79 114MM X 102MM	26D	MCK
1	INTRUDER LOCK	195DB X G3	26D	MRK
2	CYLINDER	20J200V0-26-DQM (DB,S)	626	G&A
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL
1	WALL STOP	GSH 240	C26D	GAL

Heading # D-140A

1 SGL DOOR D-140A KINDERGARTEN CL#140 TO WASHROOM

90° RH

x x Door/ Frame

NON-RTD Door/NON-RTD Frame

3	HINGE, 4 1/2, STD WT	MPB79 114MM X 102MM	26D	MCK
1	PASSAGE LEVER	175N X E7	26D	MRK
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL
1	WALL STOP	GSH 240	C26D	GAL

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127 ELGIN ST. N

Heading # D-142

1 SGL DOOR D-142 CORRIDOR TO CLASSROOM CL#142

90° RH

914 x 2032 x 45 WD Door/ EXST Frame

NON-RTD Door/NON-RTD Frame

3	HINGE, 4 1/2, STD WT	MPB79 114MM X 102MM	26D	MCK
1	INTRUDER LOCK	195DB X G3	26D	MRK
2	CYLINDER	20J200V0-26-DQM (DB,S)	626	G&A
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL
1	WALL STOP	GSH 240	C26D	GAL

Heading # D-143

1 SGL DOOR D-143 CORRIDOR TO ACADEMIC WORKM CL#143

90° LH

914 x 2032 x 45 WD Door/ EXST Frame

NON-RTD Door/NON-RTD Frame

3	HINGE, 4 1/2, STD WT	MPB79 114MM X 102MM	26D	MCK
1	ENTRY LOCK	175AB X E7 X G3	26D	MRK
1	CYLINDER	20J200V1-26-DQM (AB,F)	626	G&A
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL
1	WALL STOP	GSH 240	C26D	GAL

Heading # D-143A

1 SGL DOOR D-143A ACADEMIC WORKM CL#143 FROM CLOSET

90° RHR

914 x 2032 x 45 WD Door/ EXST Frame

NON-RTD Door/NON-RTD Frame

3	HINGE, 4 1/2, STD WT	MPB79 114MM X 102MM	26D	MCK
1	PASSAGE LEVER	175N X E7	26D	MRK
1	OVERHEAD STOP	904S	US32D	GLY

Heading # D-144

1 SGL DOOR D-144 CORRIDOR TO CLASSROOM CL#144

90° RH

914 x 2032 x 45 WD Door/ EXST Frame

NON-RTD Door/NON-RTD Frame

3	HINGE, 4 1/2, STD WT	MPB79 114MM X 102MM	26D	MCK
1	INTRUDER LOCK	195DB X G3	26D	MRK
2	CYLINDER	20J200V0-26-DQM (DB,S)	626	G&A
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL
1	WALL STOP	GSH 240	C26D	GAL

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127 ELGIN ST. N

Heading # D-145

1 SGL DOOR D-145 CORRIDOR TO CLASSROOM CL#145

90° RH

914 x 2032 x 45 WD Door/ EXST Frame

NON-RTD Door/NON-RTD Frame

3	HINGE, 4 1/2, STD WT	MPB79 114MM X 102MM	26D	MCK
1	INTRUDER LOCK	195DB X G3	26D	MRK
2	CYLINDER	20J200V0-26-DQM (DB,S)	626	G&A
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL
1	WALL STOP	GSH 240	C26D	GAL

Heading # D-146

1 SGL DOOR D-146 CORRIDOR TO CLASSROOM CL#146

90° RH

914 x 2032 x 45 WD Door/ EXST Frame

NON-RTD Door/NON-RTD Frame

3	HINGE, 4 1/2, STD WT	MPB79 114MM X 102MM	26D	MCK
1	INTRUDER LOCK	195DB X G3	26D	MRK
2	CYLINDER	20J200V0-26-DQM (DB,S)	626	G&A
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL
1	WALL STOP	GSH 240	C26D	GAL

Heading # D-147

1 SGL DOOR D-147 CORRIDOR TO CLASSROOM CL#147

90° LH

914 x 2032 x 45 WD Door/ EXST Frame

NON-RTD Door/NON-RTD Frame

3	HINGE, 4 1/2, STD WT	MPB79 114MM X 102MM	26D	MCK
1	INTRUDER LOCK	195DB X G3	26D	MRK
2	CYLINDER	20J200V0-26-DQM (DB,S)	626	G&A
1	KICK PLATE	80A (TAPE) 203MM X DOOR WITDH LESS 38MM	US32D	GAL
1	WALL STOP	GSH 240	C26D	GAL

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127 ELGIN ST. N

Heading # EXIT 09

1 EXIT 9 GYMNASIUM

90°

1828 x 2032 x 45 Door/ Frame

NON-RTD Door/NON-RTD Frame

6	HINGE, 4 1/2, HVY WT	MPB99 114MM X 114MM X NRP	32D	MCK
1	MULLION	12-L980 X 86	PC	SAR
2	RIM EXIT DEVICE EXIT ONLY OR DUMMY TRIM	16-8810F 914MMW X NO TRIM X 649 (DEVCYL-NONE)	US32D	SAR
2	CYLINDER	10J0200-26-DQM-Z20 (1-1/8 CYLINDER W/ SARGENT T CAM)	626	G&A
1	ELECTRIC STRIKE	9600-12/24D-630	630	ES-CD
2	PULL	GSH 1180-1 X #2	C32D	GAL
2	OVERHEAD STOP	904S	US32D	GLY
2	CLOSER, PARALLEL ARM	4040XP.RWPA.689.SRT	689	LCN
2	KICK PLATE	80A (TAPE) 203MM X DOOR WITDTH LESS 38MM	US32D	GAL
1	WEATHER STRIPPING	W-52S X 20-4	C.A.	KNC
2	DOOR SWEEP	W-13S-2 X 914MMW	C.A.	KNC
1	THRESHOLD	CT-75 X 1828MM	ALUMINUM	KNC
2	MISCELLANEOUS	4040XP-18G.689	689	LCN

CARD READER BY SECURITY.

Heading # LOOSE2

1 LOOSE2

o

x x Door/ Frame

18	CABINET LEVER	195SB X G3 X KD	US26D	MRK
18	CYLINDER	20J200V0-26-DQM (DB,S)	626	G&A

LOCK TO BE INSTALLED ON EXISTING CABINET DOORS.
DRILL DOORS AS REQUIRED TO SUITE NEW LOCKS.

1. GENERAL

1.1. GENERAL REQUIREMENTS

- a. Division One, General Requirements, shall apply as if repeated here.

1.2. PROTECTION

- a. Mark the presence of each light with a large temporary cross.

1.3. SAMPLES AND SUBMITTALS

- a. Submit duplicate 300 x 300mm (12 x 12") size samples illustrating insulated glass and spandrel glass units, decorative glass, colouration and fabrication. Submit associated data sheets for glass units. (SB-10)
- b. Submit samples as specified in Section 01340.

1.4. RELATED WORK

- a. Door and Frame Schedule – General Notes
- b. Steel doors and frames

1.5. WARRANTY

- a. Provide a written warranty signed and issued in the name of the Client and Project stating that the Contractor warrants insulating glass units against failure of seal of enclosed air space and deposits on inner faces of glass detrimental to vision in accordance with GC 12.3 as amended by the Supplementary General Conditions, but for a period of five years.

2. PRODUCTS

2.1. GLASS MATERIALS

- a. Polished plate or float glass: to CAN/CGSB-12.3-M latest revised edition and amendments, glazing quality, 6mm (0.25") thick, unless specifically indicated otherwise.
- b. Heat Treated Tempered Safety Glass: to CAN/CGSB-12.1-M; clear float glass fully tempered horizontally to achieve net strength of not less than 4 to 5 times greater than regular annealed glass; Class C; 6mm (0.25") thick, unless indicated otherwise.
- c. Heat Strengthened Glass: to CAN/CGSB-12.1-M; clear float glass heat strengthened horizontally to achieve a net strength of not less than 2 times greater than regular annealed glass; 6mm (0.25") thick, unless indicated otherwise.
- d. Low Emissivity (E) Glass: 6mm (0.25") thick; tempered or heat-strengthened as indicated;
 - 1) insulated glass: vacuum-sputtered coating on second surface. Centre of glass winter u-factor to be .24. Maximum SHGC to be .31. (SolarBan 60)
 - 2) non-insulated glass: pyrolitic coating.

- e. Insulated Glass: as per a./b. above, double sealed edge binding, 13mm (1/2") argon filled space, exterior lite colour LIGHT GREY, low-e coating on 2nd surface (SolarBan 60), warm edge spacer, provide sample for approval. Centre of glass winter u-factor to be .24. Maximum SHGC to be .31 min. VT/SHGC to be 1.10.
- f. Sealed Opaque Glass units- to CAN/CGSB-12.9-M; 6mm (0.25") thick tempered tinted glass with opaque coating applied to #2 and #3 surface; eg. Opaci-Coat 300 by ICD High Performance Coatings; warm edge spacer, 13mm (1/2") argon filled space, 6mm thick tempered glass, colour as selected by Consultant.
- g. Sealed Obscure Glass units: as per a./b. above, double sealed edge binding, 13mm (1/2") argon filled space, exterior lite colour LIGHT GREY, warm edge spacer, low E coating (solar ban 60) on second surface, Acid Etch surface #3. Provide sample for approval. Centre of glass winter u-factor to be .24. Maximum SHGC to be .31.
- h. Laminated safety glass: to CAN2-12.1-M latest revised edition and amendments, glazing quality, 6mm (0.25") thick, two layers of 3mm glass on vinyl sheet.
- i. Mirror Glass: to CAN/CGSB-12-5-M latest revised edition and amendments, Type 18 float glass, 6mm (0.25") thick minimum; polished edges; sizes as scheduled or noted on Drawings.
- j. Spandrel Glass: to CAN/CGSB-12.9-M; 6mm (0.25") thick single pane of tinted glass as specified above, with opaque coating applied to #2 surface; eg. Opaci-Coat 300 by ICD High Performance Coatings; coating colour as selected by Consultant.
- m. Fire-Rated Laminated Safety Glass : to CAN4-S104-M80 and CAN4-S106-M80, premium polished glass-ceramic fire-rated glazing;
 - 1) FireLite Plus, manufactured by Nippon Electric Glass Company Ltd., 8mm (5/16") thick, single pane, installed in accordance with ULC R13377 or; Schott Pyran Platinum L 9mm (3/8"); or Karalite Select L 8mm (3/8").
- n. Decorative Window Film: LLumar Decorative Custom Imaging Film manufactured by an Eastman Chemical Company business: CPFilms Inc., 575 Maryville Centre Drive, St. Louis, Missouri 63141; Telephone: 800-255-8627; Email address: commercialalerts@eastman.com; Web Site: www.llumar.com.

2.2. GLAZING AND SEALING COMPOUND MATERIALS

- a. Glazing compound: Oil type, to CGSB 19-GP-6M Type 1, colour of frames.
- b. Sealant compound: To Section 07910.
- c. Glazing tape: Preformed butyl tape, 10-15 durometer hardness, paper release, 3.2mm (0.125") thick x 40mm (1.6") wide, colour to match frames.
- d. Setting blocks: Neoprene, Shore "A" 100mm (4") long x 9mm (0.35") thick x 6mm (0.25") high.

- e. Spacer shims: Neoprene, Shore "A" 75mm (3") long x 2.4mm (0.09") thick x 6mm (0.35") high.
- f. Glazing splines: Neoprene manufacturer's standard dry glazing splines to relate to colour of aluminum.
- g. Glazing points and wire spring clips: Corrosion resistant, manufacturer's standard.
- h. Primer-sealers and cleaners: to glass manufacturer's standard.

2.3. GLAZING SCHEDULE

a. **Tempered Glass (GL-1):**

- Shall be 10 mm (3/8") float glass tempered to meet National Building Code Safety Glass requirements in Sub-Section 3.3.1.13 (1) (2) and to conform to current national standards of Canada CAN2-12.1-M79. Refer to drawings for location of clear lites.

b. **Glass at Fire Rated Doors and Partitions (GL-2):**

- Premium Firelite 3/16 ins. (5 mm) thick FireLite supplied by Techniglas.
 - Fire-rating: 45 minutes
 - Surface Finish: Standard Grade is polished
 - Positive Pressure Test: UL 10C
 - Glazing Tape: Closed cell polyvinyl chloride (PVC) foam, coiled on release paper over adhesive on two sides, maximum water absorption by volume of 2 percent

3. EXECUTION

3.1. WORKERSHIP

- a. Remove protective coatings and clean contact surfaces with solvent and wipe dry.
- b. Apply primer-sealer to contact surfaces.
- c. Place setting blocks as per manufacturer's instructions.
- d. Install glass, rest on setting blocks, ensure full contact and adhesion at perimeter.
- e. Install removable stops, without displacing tape or sealant.
- f. Provide edge clearance of 3mm (0.12") minimum.
- g. Inset spacer shims to centre glass in space. Place shims at 600mm (24") o.c. keep 6mm (0.25") below sight line.
- h. Apply cap bead of sealant at exterior void.
- i. Apply sealant to uniform and level line, flush with sight line and tooled or wiped with solvent to smooth appearance.
- j. Do not cut or abrade tempered, heat treated, or coated glass.

- k. Door and screen glazing to be tempered, unless noted otherwise on Drawings.
- l. Exterior glazing to be tinted, tempered glass including windows, doors and screens, unless noted otherwise on the Door Schedule.
- m. Fixed exterior glass to be insulated units.
- n. Sloped glazing to be insulated with tinted, tempered exterior light, laminated safety glass interior light.
- o. Refer to DOOR SCHEDULE for locations of wired glass and fire-rated laminated

safety glass.

- 3.2. EXTERIOR GLAZING: Combination method - tape / sealant:
- a. Cut glazing tape to proper length and set against permanent stops, 5mm (0.2") below sight line. Install horizontal strips first, extend over entire width of opening before applying vertical strips. Weld corners together by butting tape and dabbing glass and applied stop with silicone sealant.
 - b. Fill gap between glass and applied stop with sealant to depth equal to bite of frame on glass but not more than 10mm (0.4") below sight line.
- 3.3. INTERIOR GLAZING: Dry method - tape / tape:
- a. Cut glazing tape to length and install against permanent stop, project 1.5mm (0.06") above sight line.
 - b. Place glazing tape on free perimeter of glass as described above.
- 3.4. FIRE-RATED LAMINATED SAFETY GLASS:
- a. Fire-rated laminated safety glass shall only be installed into fire-rated frame assemblies of the same rating.
 - b. Install in vision panels in fire-rated doors to requirements of NFPA 80.
 - c. All glazing components, tapes, compounds, sealants and stop heights must be chosen and installed according manufacturer's recommendation and appropriate ULC classification.
 - d. Install so that the ULC or manufacturer's rating label remain permanently visible for each pane.
- 3.5. FINISHING
- a. Immediately remove sealant and compound droppings from finished surfaces. Remove labels after work is completed. Clean both sides of glass.

END OF SECTION

Part 1 General

1.1. DESCRIPTION

.1 General Requirements:

.1 Division 1, General Requirements, is a part of this Section and shall apply as if repeated here.

.2 Work Performed by Other Sections Related to this Section is Specified in:

.1 Section 07 92 00: Sealants and Caulking

.2 Section 09 51 00: Acoustic Ceilings

.3 Section 09 91 00: Painting and Finishing

.3 Supply of Work Installed by this Section is Specified in:

.1 Division 15: To furnish access panels

1.2. SYSTEM DESCRIPTION

.1 Tolerances:

.1 Install board within 3 mm of dimensioned location unless approved otherwise, and flat to a tolerance of 1 mm maximum in 1000 mm and 1 mm maximum in any running 200 mm.

.2 Install framing members to ensure that deflection of each member does not exceed 1/360 of its span under dead load and loads imposed by mechanical and electrical equipment and fixtures supported by ceiling.

1.3. QUALITY ASSURANCE

.1 Requirements of Regulatory Agencies:

.1 Install fire separations and fire protection exactly as specified in Underwriters' Laboratories test design specification that validates specified rating. Verify installations specified in other Sections, as a part of the entire assembly, meets applicable validating test design specification.

1.4. REFERENCES

- .1 Reference Standards: Reference standards quoted in Contract Documents refer to:

ASTM A116-81, Specification for Zinc-Coated (Galvanized) Iron or Steel Farm Field and Railroad Right-of-Way Wire Fencing

ASTM 153-80, Specification for Zinc Coating (Hot Dip) on Iron and Steel Hardware

ASTM A525-81, Specification for Steel Sheet, Zinc Coated (Galvanized) by the Hot Dip Process, General Requirements

ASTM C475-64, Standard Specification for Joint Treatment Materials for Gypsum Wallboard Construction

ASTM C646-76a, Specification for Steel Drill Screw for the Application of Gypsum Sheet Material to Light-Gauge Steel Studs

CGSB Specification 1-GP-118M Finish, Interior, Alkyd, Flat

CAN/CSA-A82.27-M91, Gypsum Board

CAN/CSA-A82.31-M91, Gypsum Board Application

1.5. DELIVERY, STORAGE AND HANDLING

- .1 Package finish materials.
- .2 Store materials in protected dry areas. Store board flat in piles with edges protected.
- .3 Ensure that finish metal members are not bent, dented, or otherwise deformed.
- .4 Deliver products supplied only by this Section to those responsible for installation, to the place they direct, and to meet installation schedules.
- .5 Package fire-rated materials with Underwriters' Laboratories labels attached.

1.6. SITE CONDITIONS

- .1 Environmental Requirements:
- .1 Install interior gypsum board systems only in areas closed and protected against weather, and maintained between 10°C and 21°C. In cold weather, ensure that heat is introduced in sufficient time, before installation commences, to bring surrounding materials up to these temperatures and that it is maintained until materials installed by this Section have cured.

- .2 Do not install gypsum board systems in any area unless satisfied that construction in place has dried out, and that no further installation of damp materials is contemplated.

Part 2 Products

2.1. MATERIALS

- .1 Gypsum Board:
 - .1 To meet specified requirements of CAN/CSA-A82.27, ASTM C1396.
 - .2 Plain Gypsum Board: 12.7 mm and 15.9 mm with tapered edges with maximum practical lengths to minimize joints.
 - .3 Specialized Gypsum Board: refer to wall types schedule on drawings:
 - .1 Type X fire-rated gypsum board to obtain listed fire ratings listed on schedules.
 - .2 Fire-rated gypsum board 15.9 mm thick of gypsum mineral core. Pro-Roc Type C by Certainteed Gypsum Canada. Firecode C by CGC Inc. or approved alternate by G-P Products Inc.
 - .3 Abuse resistant gypsum board – minimum 16 mm thick. All walls. Sheetrock Abuse-Resistant Panels by CGC Inc. Sheetrock Abuse-Resistant Panels by ToughRock.
 - .4 Moisture Resistant Gypsum Board: ASTM C1396/C1396M, 13 mm and 16 mm (1/2" and 5/8") thick, maximum available length in place; ends square cut, tapered edges.
- .2 Joint Materials:
 - .1 Gypsum Board Joint Reinforcing Tape: 50 mm wide glass, fibre mesh.
 - .2 Fibrebond Joint Reinforcing Tape: 50 mm wide, cross laminated fibre tape.
 - .3 Gypsum Board Joint Compounds:

- .1 Latex, resin base, possessing good adhesion, mixed with fresh, unadulterated water having no detrimental effect on compounds.
 - .2 Durabond 45 in powder form to be mixed on site in accordance with Manufacturer's printed instructions.
- .3 Galvanizing:
- .1 Zinc Coating: To meet specified requirements of ASTM Specifications A525, zinc coating designation Z275 for sheet steel; A153, Class B.3 Coating for hardware and bolts; A116, Class 3 Coating for wire and rods.
 - .2 Wiped Coating: ASTM Specification A525 zinc coating designation ZF75.
 - .3 Hot Dipped: Zinc coating by hot dipping after fabrication to provide a uniform coating of not less than 2.0 ounces per square foot.
- .4 Fastenings and Ties:
- .1 Screws: For securing gypsum board to metal furring: self-drilling, self-tapping, case-hardened, Phillips head, drywall screws, with corrosion resistant finish; to meet requirements of ASTM Specification C646. #6 x 25 mm for single thickness board fastening, and #7 x 41 mm for double thickness board fastening.
 - .2 Tie Wire: 1.6 mm diameter galvanized soft annealed steel wire.
- .5 Furring System:
- .1 Runner (Carrying) Channels: 1.6 mm thick cold rolled steel, prime painted; 38 mm x 13 mm where supported at centres of 900 mm maximum; 38 mm x 19 mm where supported at centres of 1200 mm maximum.
 - .2 Furring Channels: 0.55 mm thick cold rolled steel, wiped coated, nominal size of 19 mm deep x 32 mm face, hat type with knurled face.
 - .3 Metal Trim: 13 mm, J-trim, No. 200-A; 13 mm, L-trim, No. 200-B, both as manufactured by Canadian Gypsum Company Inc.
 - .4 Control Joints: No. 093 as manufactured by Canadian Gypsum Company Inc.
 - .5 At areas of high humidity, use zinc-coated runners, furring channels and accessories.

.6 Partition System:

- .1 Steel Studs: 0.85 mm (20 gauge) thick steel, wiped coated, having knurled flanges 32 mm wide with edges doubled back at least 4.8 mm, with girts as required, and with service access holes.
- .2 Partition Runners: As specified for studs, with flanges a minimum of 22 mm high at floor, and 51 mm high for double runners at top of partitions and to suit width of studs.
- .3 Control Joints: No. 093 as manufactured by Canadian Gypsum Company Inc.

.7 Ceiling Hanger System:

- .1 Hanger Anchoring Devices: Phillips Red Head by Phillips Drill Company of Canada Limited, Thornhill, Ontario
 - : T32 self-drilling for use in concrete deck
 - : WS-3822 wedge anchor with tie wire insert for use in composite concrete
- .2 Hangers: Zinc-coated annealed steel wire
 - : 2.8 mm diameter to support a maximum weight of 68 kg per hanger.
 - : 3.8 mm diameter to support a maximum weight of 140 kg per hanger. Zinc-coated annealed steel rod
 - : 4.8 mm diameter to support a maximum weight of 250 kg per hanger

.8 Sealant:

- .1 Acoustical Sealant: As manufactured by Tremco Manufacturing Co. (Canada) Ltd. or Presstite Acoustical sealant No. 579.64 as manufactured by Inmont Presstite Ltd.
- .2 Fire Separation Sealant: Sealant Type 1 as specified in Caulking Schedule of Section 07920 where exposed to view, and acoustical caulking at concealed locations.

Part 3 Execution

3.1. EXAMINATION

- .1 Before application of board systems commences, ensure that services have been installed, tested, and approved; that conduits, pipes, cables, and outlets are plugged, capped, or covered; and that fastenings and supports installed by other Sections are in place.
- .2 Ensure that environmental conditions and construction completed before installation of gypsum board systems commences are satisfactory and will permit compliance with quality and dimensions required for gypsum board installation specified in this Section. Do not permit installations of others to touch the back of gypsum board.
- .3 Verify that installations performed by other Sections which are part of an underwriter specification for a fire-rated assembly have been done in accordance with that specification.
- .4 Verify that channels installed for rigid insulation are located properly and are well secured.

3.2. INSTALLATION

- .1 General:
 - .1 Coordinate installation of systems specified in this Section with installations of other Sections for: attachment of hangers, fasteners, stiffeners, and reinforcing; support and incorporation of flush-mounted and recessed components. Ensure adequacy of supports by consultation and verification of methods specified in Divisions 15 and 16.
 - .2 Install systems in accordance with approved manufacturer's specifications and printed directions, as applicable for materials incorporated.
 - .3 Do not install metal framing, trim, casings, or accessories which have been bent, dented, or otherwise deformed.
 - .4 Securely attach trim, casings, framing, and accessories.
 - .5 Framing and furring shown on Drawings is indicative but do not regard it as exact or complete. Construct systems to provide adequate strength to withstand stresses imposed by use without distortion, and to maintain dimensions indicated on Drawings.
 - .6 Provide continuous backing for all edges of board.

- .7 Erect supporting and finish materials to dimensions indicated on Drawings; plumb, level, straight, and square to adjoining elements.
 - .8 Provide for movement at intersections with structural members to avoid transference of loads to systems.
 - .9 Make allowances for thermal movements in system.
 - .10 Do not support systems from, nor make attachment to, ducts, pipes, conduit, or the support framing installed by other Sections.
 - .11 Install materials with the minimum of joints.
 - .12 Splice framing members only where continuous lengths are not available from manufacturer.
 - .13 Frame openings on every side with suitable sections. Provide clearances required at mechanical and electrical services, such as grilles, diffusers, access panels, and lighting fixtures only after verification of requirements in each case.
 - .14 Cooperate with other Sections. Where the installations of other Sections penetrate board construction, fit openings snugly, and to ensure cover by escutcheons and plates utilized.
 - .15 Attach to framing, adequate steel reinforcing members to support the load of, and to withstand the withdrawal and shear forces imposed by, items installed by other Sections upon systems. Such items are, but not restricted to, coat hooks, washroom accessories, handrail anchors, guards, wall-hung cabinets and fitments, shelving, curtain and drapery tracks, and minor mechanical and electrical equipment and fixtures. Heavy mechanical and electrical equipment shall be self-supporting as specified in Divisions 15 and 16.
 - .16 Provide fire stopping; bulkheads over doors, frames, screens, and changes in ceiling levels; stair soffits; furred beams; pipe spaces; all as indicated on Drawings.
- .2 Suspended Ceiling Framing and Furring:
- .1 Anchor hangers to structural frame or to hanger anchoring devices installed by this Section.

- .2 Space hangers for runner channels to suit structure, to support ceiling load, at a maximum distance of 1200 mm o.c., and at no greater distance than 150 mm from ends of runner channels.
 - .3 Install runner channels at 900 mm o.c., generally, and at no greater distance than 150 mm from terminations of supported cross furring members. Bend rod hangers sharply under bottom flange of runners and wire securely in place with saddle ties.
 - .4 Splice runner channels by lapping at least 300 mm, with interlocking flanges, and wired at each end with two loops. Do not bunch or line up splices.
 - .5 Install cross furring at 400 mm o.c., generally, and at no greater distance than 150 mm from walls, openings, breaks in continuity of ceiling, and changes of direction. Space furring in all cases to suit incorporated services, and so as to avoid contact with perimeter walls. Span hat-type furring no greater than 1200 mm. Use metal studs for greater spans: 42 mm deep spanning to 1525 mm, 63 mm deep to 1800 mm, and 92 mm deep to 2400 mm.
 - .6 Secure cross furring to supports with double wire ties or approved equivalent attachment. Splice by nesting and tying together with 200 mm overlap.
 - .7 Erect entire hanger and suspension system to adequately support the ceiling assembly, including services incorporated, with a maximum specified deflection for each component member, and free from horizontal movement.
 - .8 Enclose ducts, pipes, beams or other components that occur outside the general finished lines of ceilings, soffits and bulkheads with metal furring and gypsum board, in rooms where acoustic treatment for ceilings is specified.
- .3 Metal Stud Framing:
- .1 Secure runner channels at floor and tops of partitions for their full length, at 600 mm o.c. with concrete nails, square cut nails, toggle bolts, or sheet metal screws as suitable for base material. Install runner channels also at heads and sills of openings. Secure runners at openings by butting flanges, turning up webs, and screwing to studs.
 - .2 Provide partition runners with deep flanges at heads of partitions where deflection and/or creep of structure will occur.

- .3 Butt, not mitre, runners at wall intersections and corners. Lap runners and screw channels together.
- .4 Space studs at 400 mm o.c., generally, or as indicated on Drawings, and at no greater distance than 50 mm from abutting walls, partitions, and corners.
- .5 Secure studs to runners by screws, crimping, or welding, as required by stud type, and in accordance with manufacturer's design specification. Include provisions for deflection of building structure to ensure that structural loads are not transferred to studs.
- .6 Install studs of depth indicated on Drawings, but in no case span studs 42 mm deep more than 2700 mm between supports; 63 mm deep, 3600 mm; and 92 mm deep, 4.5 m.
- .7 Double studs at door jambs. At each jamb or doors exceeding either 900 mm in width or 57 mm in thickness, or both, install a 100 mm hot rolled structural channel, to structure above, and adequately anchored at each end.
- .8 Double studs at all control joints.
- .9 Erect three studs at corner and intermediate intersections of partitions.
- .10 Install partition runners at heads and sills of openings in partitions. Form 150 mm bends in runners and secure bent portion to studs.
- .11 Splice studs by nesting, with a 200 mm minimum lap, and fastened with one screw in each flange.
- .12 Ensure that electrical boxes are not installed back to back in same stud space.
- .13 Install blocking for bases, frames and supports before board is applied.
- .14 Coordinate installation of board systems with other Sections installing horizontal runs of service lines so that all installations are done simultaneously. Where standard holes are too small for installed services, notch studs, and splice notched flanges with splice pieces 300 mm longer than notches, each fastened with two screws.

- .15 Screw or weld frame anchor clips of frames supplied by Section 08110 to jamb studs and head and sill runners. Ensure adequate fastenings to prevent movement of the frame within the partition. Remove spreaders at floor after frames are anchored.
 - .16 Unless shown otherwise on Drawings, partitions, together with gypsum board facings, shall extend above ceilings to underside of structure above.
- .4 Accessories:
- .1 At External Corners: Install corner beads secured to framing at 150 mm o.c. on alternate flanges.
 - .2 At Board Edges: Secure "J" shaped casing beads at 150 mm o.c. at edges exposed to view, where board butts against other material with no trim to conceal junction, at control joints, at perimeter of ceiling surfaces, at tops of partitions where they stop against continuous ceiling surfaces, and where otherwise indicated on Drawings.
 - .3 Install control joints in interior gypsum board systems at no greater spacing than 7.3 m for walls and 9 m for ceilings in each direction, at perimeters of ceilings where they abut walls and other vertical surfaces, or as otherwise indicated. Line up control joints with joints in other construction or with centre lines of mullions, columns, piers, or similar building elements.
 - .4 Install casings and thermal breaks at junctions of gypsum board with exterior door, window or screen frames.
- .5 Application of Gypsum Board to Framing:
- .1 Extend board into door, window, and other opening reveals; behind mirrors, fitments, and other applied items of a fixed nature; and on metal stud partitions where they shall parallel studs.
 - .2 Apply board with long dimension perpendicular to supports except at stud partitions where they shall parallel studs.
 - .3 Back all joints with a framing member. Locate joints on opposite sides of partitions on different studs, and at least 300 mm from opening jambs.
 - .4 Install board in maximum lengths and widths to minimize joints, and in lengths of 1800 mm minimum, and stagger end joints where they are unavoidable. Locate

joints in ceilings where least prominently discerned, and never line them up with opening edges.

- .5 Tightly butt board joints, without force, and align them neatly.
 - .6 Form neat joints at mills ends and at edges of board panels cut in field. Cut paper on face with a knife. Smooth by sanding and rubbing edges together.
 - .7 Do not install board in close proximity to hot pipes or heating ducts.
 - .8 Fasten board to metal support members by metal drywall screws.
 - .9 Locate fasteners at 10 mm minimum to, and 13 mm maximum from, centre of joints. Space fasteners at walls and ceilings at 300 mm o.c. at edges and in field, unless otherwise specified. At ceilings of fire rated board, space fasteners at 200 mm o.c. at edges and in field, unless otherwise specified. At walls of fire rated board, space fasteners at 200 mm o.c. at edges and 300 mm o.c. in field. Locate fasteners opposite one another in adjacent panels.
 - .10 Start application on walls at corners of rooms, and on ceilings from centre line of spaces. Do not force adjacent boards into place; allow moderate contact. Install extension clips where required. Drive screws to form a slight depression, but no so paper cover is broken.
 - .11 Install board with casing bead at termination of gypsum board edge abutting adjoining surfaces to provide for differential movement at internal corners.
- .6 Finishing of Joints and Depressions at Gypsum Board:
- .1 Fill joints, casing beads, corner beads, holes at board fasteners and depressions on board surfaces exposed to view to ensure smooth seamless surfaces and square neat corners. Use jointing compounds and reinforcing tapes in conformance with manufacturer's specifications. Ensure that board is tight against framing members, fasteners are properly depressed, and adhesives have sufficiently cured.
 - .2 Fill joints by three-coat method:
 - .1 Embed reinforcing tape in a cover coat of joint filler.
 - .2 Apply level coat of joint filler when cover coat has dried.

- .3 Feather edges of compounds into surfaces of boards. After skim coat has dried for at least 24 hours, sand to leave smooth for decoration. Do not sand paper face of board.
- .3 At bevelled joints, apply cover coat 180 mm wide, level coat 250 mm wide, and skim coat 300 mm wide.
- .4 At end joints and butt joints formed at cut edges of board, apply cover coat 355 mm wide, level coat 500 mm wide, and skim coat 600 mm wide. Camber treatment over end joints to 0.8 mm thick at most.
- .5 At Internal Corners: First fill gaps between boards with joint filler. Embed creased reinforcing tape in a thin coat of joint filler applied 50 mm wide at each side of corner. Apply cover coat as specified for bevelled joints. Apply skim coat (as specified for bevelled joints) to just one side of joint, and when dry, apply skim coat to other side.
- .6 At External Corners: Fill to nose of corner bead with joint filler and topping cement as specified for bevelled joints.
- .7 At Casing Beads: As specified for bevelled joints.
- .8 At Board Fasteners: Fill holes and depressions with 2 coat application of joint filler.
- .7 Caulking:
 - .1 Caulk between casing beads and other construction where junction exposed to view.
 - .2 Caulk junctions between gypsum board fire separations and protection, and other construction to ensure that integrity of fire rating is maintained. Ensure that caulked joints provide a continuous seal and that they are caulked before other installations enclose them.
 - .3 Clean joints, and prime and install sealants in accordance with the requirements of Joint Sealants Section 07920.

3.3. ADJUSTMENT AND CLEANING

- .1 Remove droppings and excess of joint compound from property, materials and surfaces of others, and from board and accessories installed by this Section, before it sets.

- .2 Make good cut-outs for services and other installations, fill in defective joints, holes and other depressions with joint compound.
- .3 Make good defective board installations and ensure that surfaces are smooth, evenly textured and within specified tolerances to receive finish treatments.
- .4 Clean off beads, casings and other metal trim, and leave all surfaces ready for specified finishes.

END OF SECTION

Part 1 General

1.1. DESCRIPTION

.1 General Requirements:

- .1 Division 1 General Requirements is a part of this Section and shall apply as if repeated here.

.2 Scope of Work:

- .1 This Section of Work shall include all labour, materials, tools, scaffolds and other equipment, services and supervision required to cover with paint the surfaces of the building, or structure, building services and accessories not otherwise protected or covered, as shown on the "Room Finish Schedule" to the full intent of the Drawings and Specifications but does not include Mechanical Rooms.
- .2 Refer to Drawings and Finish Schedules for type, location and extent of finishes required, and include all field painting necessary to complete work shown, scheduled or specified, including back priming and surface preparation as specified herein.

.3 Related Work Specified Elsewhere:

- .1 Section 06 20 00: Finishing Millwork
- .2 Section 08 11 00: Metal Doors and Frames
- .3 Section 08 20 00: Wood Doors
- .4 Section 09 21 00: Gypsum Board

1.2. QUALITY ASSURANCE

.1 Subcontractor Qualifications:

- .1 The paint products and manufacturer shall be listed in the Ontario Painting Contractors Association Specification Manual, latest edition, under Paint Product Recommendation section, or approved equivalent. Ideal and CIL equivalent products are considered equivalents.
- .2 Perform painting and finishing specified in this Section only by a Subcontractor who has a minimum of five years of proven satisfactory applications similar to that specified. Subcontractor shall have equipment and skilled tradesmen to perform Work expeditiously. Journeymen (and

apprentices) shall have a provincial Tradesman Qualification certificate of proficiency.

.2 Requirements of Regulatory Agencies:

- .1 Apply coatings that require fire hazard classification exactly as specified in Underwriters' Laboratories test specification that validates specified rating.
- .2 Coatings shall meet fire hazard classification requirements of jurisdictional authorities for each material in each installation location as applicable.
- .3 Fire retardant coatings to meet fire hazard classification requirements of jurisdictional authorities for each installation location.
- .4 Fire hazard classification ratings shall not exceed for:
 - .1 Flame Spread: 25 for exits, 150 otherwise.
 - .2 Smoke Developed: 50 for exits, 300 otherwise.

.3 Mock-Up: Before proceeding with painting, finish one complete space or item of each colour scheme required, showing selected colours, finish texture, materials, and workmanship. After approval, the sample rooms or items shall serve as a standard for similar work throughout the building.

.4 Inspection:

- .1 A painting inspector may be appointed by the Consultant in order to provide independent inspection of all painting and testing where required.
- .2 The inspector shall review the condition of the substrate prior to application of any paint. The inspector shall review all painting applications in accordance with a predetermined plan agreed upon by the painting contractor, the painting inspector, and the Consultant.
- .3 The painting inspector shall be acceptable to the Architect and the OPCA Association. The cost for the inspection reports shall be paid from the Inspection and Testing Allowance.

1.3. SUBMITTALS

- .1 Approvals: Submit a written request to the Architect for approval of equivalent products during bidding period, listing each of the materials proposed, surfaces to be covered. State clearly manufacturer's name and brand name of any proposed equivalent material.
- .2 Colour Schedule:
 - .1 Paint and colours shall be selected by the Architect.

- .2 Before any painting is to commence, the Architect shall furnish a Colour Schedule showing where the various colours and finishes shall be applied.
- .3 List of Materials: Before ordering materials, submit a list of those materials proposed for use for approval. For each material, give manufacturer and descriptive nomenclature that will appear on container labels. Do not order materials that have not been approved.
- .4 Affidavits: Submit affidavits from manufacturer to certify that materials supplied for project meet specification requirements and that the manufacturer approves of their use for each proposed application.
- .5 Samples: Painter to prepare samples of each type of paint, stain and application specified, on 220 mm x 280 mm plywood for approval, to be left on the job site until painting contract is complete. Label samples to indicate finish, formula, colour name, number, sheen, and gloss.
- .6 Inspection Reports: A painting inspector shall review and submit reports on the quality of the painting contract.

1.4. GUARANTEE

- .1 The painting contractor shall furnish a Canadian Painting Contractor's two-year Guarantee, or alternatively a 100% two-year Maintenance Bond, on completion of the Work. The Guarantee (or Maintenance Bond) shall warrant that the Work has been performed in accordance with the standards and requirements incorporated in the Canadian Painting Contractors Architectural Specification Manual, latest edition. The Work performed by the Painting Contractor shall be inspected by an independent inspector acceptable to the specifying authority and to the appropriated Provincial Painting and Decorating Contractors Association. The cost of this inspection and the Guarantee (or Maintenance Bond) shall be included in this tender.
- .2 Painting contractors using a Maintenance Bond type of guarantee shall supply with their tenders a facsimile of the bond to be used, together with written proof of their ability to furnish same, at no cost to the Owner. In either event, the inspection is as referred to in the CPCA manual.

1.5. DELIVERY, STORAGE AND HANDLING

- .1 Deliver each container sealed and labelled with manufacturer's name, catalogue number/brand name, colour, formulation type, reducing instructions, and reference standard specification number, if applicable.

- .2 Store only acceptable project materials at site, in area specifically set aside for purpose that is locked, ventilated, maintained at a temperature of over 7°C, and protected from direct rays of sun.
- .3 Ensure health and fire regulations are complied within storage area. Provide carbon dioxide fire extinguishers of 9 kg minimum capacity in each storage area while materials are contained within.
- .4 On each container, for materials requiring a fire hazard classification, attach Underwriters' label verifying material is listed under their label service, and giving the hazard classification.

1.6. SITE CONDITIONS

- .1 Environmental Requirements:
 - .1 Apply painting materials only when air and surface temperatures exceed 5°C, except for:
 - .1 7°C for latex paint at interior locations; 10°C for latex paint at exterior locations; 21°C for lacquers and enamels.
 - .2 Do not apply exterior finishes in direct sunlight that raises surface temperatures above that for proper application and drying, nor in rainy, foggy, or windy weather.
 - .3 Do not apply finishes when relative humidity is over 85%, when condensation has formed or is likely to form, nor immediately following rain, frost or formation of dew.
 - .4 Test moisture of surfaces by electronic Moisture Meter.
 - .5 Do not apply finishes when dust is raised.
 - .6 Do not apply finishes on porous surfaces as concrete, plaster, gypsum board, pipe insulation, masonry, containing over 12% moisture.
 - .7 Masonry and Concrete Blocks must be installed at least 28 days prior to painting and must be visually dry on both sides before painting commences. This is not to be construed as including a "wetting down" process for latex.
 - .8 Concrete floors shall be tested for moisture by a simple "cover patch test."

- .9 Painting and decorating work shall not proceed unless a minimum of 15-foot candles of lighting is provided on the surfaces to be painted. Adequate lighting facilities shall be provided by the General Contractor.
- .10 All areas where painting and decorating work is proceeding require adequate continuous ventilation and sufficient heating facilities to maintain temperatures above 7°C for 24 hours before and after paint application. Required heat and ventilation shall be provided for the Painting Subcontractor.

1.7. PROTECTION

- .1 Protect other surfaces from paint and damage and make good any damage caused by failure to provide suitable protection but will not be responsible for any damage caused by others.
- .2 Furnish sufficient drop cloths, shields and protective equipment to prevent spray or dropping from fouling surfaces not being painted and in particular, surfaces within the storage and preparation area.
- .3 Waste, cloths, and material which may constitute a fire hazard shall be placed in closed metal containers and removed daily from the site.
- .4 Remove all electrical plates, surface hardware, fittings, and fastenings prior to painting operations. These items shall be carefully stored, cleaned, and replaced on completion of Work in each area. No solvent shall be used to clean hardware that will remove the permanent lacquer finish on some of these items.

Part 2 Products

2.1 MATERIALS

- 1. Paint, varnish, stain, enamel, lacquer and fillers shall be of a type and brand herein specified and/or listed under Chapter 5 of the CPCA manual.
- 2. Paint materials such as linseed oil, shellac, turpentine, and any materials not specified herein but required for first class work with the finish specified shall be the highest quality product of an approved manufacturer. All material shall be compatible with finish paint or coating materials.
- 3. Two coats of the specified paints are required throughout.

2.2 MIXING

1. Paints shall be ready-mixed unless otherwise specified, except that any coating in paste or powder form or to field-catalyzed shall be field-mixed in accordance with the directions of its manufacturer.
2. Pigments shall be fully ground and shall maintain a soft paste consistency in the vehicle during storage that can and shall be dispersed readily and uniformly by paddle to a complete homogeneous mixture.
3. The paint shall have good flow and brush properties and shall dry or cure free of sags or runs to yield the desired finish specified.

2.3 CONCRETE BLOCK (PRIMER):

1. Benjamin Moore and Co. Ltd. # M-88 Latex block filler. First coat to be applied at a spread rate of 75 sq.ft. per 3.79 litre container. Each coat wet thickness to be 21.0 mils. Each coat dry thickness to be 8.0 mils.
2. Benjamin Moore and Co. Ltd. #577 – 1A Moorestyle. Apply two coats at a spread rate of 500 sq.ft. per 3.79 litre container. Each coat wet thickness to be 3.0 mils. Each coat dry thickness to be 1.3 mils.
or
3. Glidden #36250 concrete block filler.
Apply one coat at a spread rate of 380 sq.ft. per 3.78 litre container. Each coat wet thickness to be 19.0 mils. Each coat dry thickness to be 8.0 mils.
4. Glidden #4038 Devguard or Glidden #94400 Semi Gloss. Apply two coats at a spread rate of 500 sq.ft. per 3.79 litre container. Each coat wet thickness to be 3.0 mils. Each coat dry thickness to be 1.3 mils.

2.4 HOLLOW METAL DOORS/FRAMES:

1. Benjamin Moore and Co. Ltd. #023 Fresh Start Primer. Apply one coat: spread rate of 425 sq.ft. per 3.79 litre container. Each coat wet thickness to be 3.7 mils. Each coat dry thickness to be 1.1 mils.
2. Benjamin Moore and Co. Ltd. C-133-1A Impervo or C-235 Satin Impervo. Apply two coats at a spread rate of 500 sq.ft. per 3.79 litre container. Each coat wet thickness to be 3.0 mils. Each coat dry thickness to be 1.3 mils.

or

3. Glidden #250 Gripper Primer. Apply one coat at a spread rate of 389 sq.ft. per 3.78 litre container. Each coat wet thickness to be 4.0 mils. Each coat dry thickness to be 2.0 mils.
4. Devoe #4038 Devguard.
5. Apply two coats at a spread rate of 320 sq.ft. per 3.78 litre container. Each coat wet thickness to be 5.0 mils. Each coat thickness to be 2.25 mils.

3 EXECUTION

3.1 Inspection of Surfaces

- 3.1.1 Examine surfaces to receive paint finishes for defects which cannot be corrected by procedures specified herein, and which may result in unsatisfactory paint finishes. Report items to Consultant and Contractor in writing, prior to commencement of work of this section, or after initial prime coat shows defects in substrate.
- 3.1.2 The application of subsequent prime and finish coats shall be construed as acceptance of the surfaces, and thereafter this subcontractor shall be fully responsible for satisfactory work as required herein.

3.2 Preparation of Surfaces

- 3.2.1 Refer to the CPCA manual Chapter 3 for surface preparations not specified in the section

3.3 Protection

- 3.3.1 Protect all adjacent surfaces from paint and damage resulting from the work of this section, and make good any damage caused by failure to provide such protection.
- 3.3.2 Furnish sufficient drop cloths, shields and protective equipment to prevent spray or dropping from fouling surfaces not being painted or where painting has been completed.
- 3.3.3 Cotton waste, cloths and material which may constitute a fire hazard shall be placed in closed metal containers and removed daily from the site.
- 3.3.4 Remove and protect, prior to painting operations, all hardware, accessories, device plates, lighting fixtures, factory finished work, and similar items, or provide ample in-protection. Remove all electrical plates, surface hardware, fittings and fastenings. These items shall be labelled, stored, cleaned if

necessary and reinstalled following successful completion of the work in each area. Solvents detrimental to lacquer finishes are not to be used for cleaning these items.

3.4 Application

- 3.4.1 Paint application shall be currently accepted trade method.
- 3.4.2 Painting coats specified are intended to cover surfaces satisfactorily when applied in strict accordance with manufacturer's recommendations.
- 3.4.3 Apply each coat at the proper consistency. Sand lightly between coats.
- 3.4.4 Tint primers to same colour range as finish coats.
- 3.4.5 Do not apply finishes on surfaces that are not sufficiently dry. Each coat of finish should be dry and hard before a following coat is applied unless specified otherwise by the manufacturer.
- 3.4.6 Tint filler to match wood for clear finishes. Work filler well into wood grain and remove excess prior to setting.
- 3.4.7 Exterior woodwork to receive paint finish shall be back-primed upon arrival on site with exterior primer paint, stain or varnish, as required by specified finish.
- 3.4.8 Spraying of paint will not be allowed, unless approved by the manufacturer of the materials to be applied, and the Consultant.
- 3.4.9 Provide complete coverage and hide. When colour, stain, dirt or undercoats show through final coat of paint, provide additional coats until the paint film is of uniform finish, colour, appearance and coverage, at no additional cost to the Owner.
- 3.4.10 Allow all coats to dry to manufacturer's recommendations before applying succeeding coats.
- 3.4.11 Touch up all suction spots or "hot spots" in concrete after the application of the first coat, before applying the second coat.
- 3.4.12 Where spray painting is specified, finish 100 ft² (10m²) by spraying a sample of the finish upon the request of the Consultant, using materials specified. Do not spray paint sound block surfaces on Gymnasium area.

3.4.13 Surfaces to be stained shall appear uniform in shading with colour variations caused only by the natural wood grain.

3.4.14 Barricade areas where finishing is in progress to prevent traffic or other activities, and otherwise protect work until dry. Post "Wet Paint" signs and remove when no longer required.

3.4.15 Replace at the expense of this Section, porous materials soiled or damaged by finishing materials which cannot be removed.

3.4.16 Clean-up

Upon completion of the work, remove all paint and varnish spots from floors, glass and other surfaces. Remove from the premises all rubbish and accumulated materials of whatever nature not caused by others and leave this work in clean, orderly and acceptable conditions.

END OF SECTION

Project No. RFT 2026-11

Part 1 General

1.1. DESCRIPTION

.1 General Requirements:

.1 Division 1 General Requirements is a part of this Section and shall apply as if repeated here.

.2 Work Performed by Other Sections Related to this Section is Specified in:

.1 Section 06100: Wood Furring

.2 Section 09250: Support Framing

1.2. QUALITY ASSURANCE

.1 Subcontractor Qualifications:

.1 Provide products specified in this Section only by a Subcontractor who has adequate plant, equipment, and skilled tradesmen to perform it expeditiously, and is known to have been responsible for satisfactory installations similar to that specified during a period of at least the immediate past five years.

1.3. REFERENCES

.1 Reference Standards: Reference standard quoted in contract documents refer to:

CAN/CSA-0188.1-M78, Interior Mat-Formed Wood Particleboard.
Porcelain Enamel Institute Standard P.E.I. S104

1.4. SUBMITTALS

.1 Shop Drawings:

.1 Submit shop drawings.

.2 Samples:

.1 Submit samples of chalkboard, tackboard, markerboard and trim.

1.5. DELIVERY, STORAGE AND HANDLING

.1 Deliver products to site only immediately before installation.

.2 Package materials to protect finish surfaces during handling and storage.

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1.6. WARRANTY

- .1 Extended Warranty: Provide a warranty for the Work supplied by this Section covering the period of four (4) years beyond the expiration of the warranty period specified in the General Conditions to the Contract.

Part 2 Products

2,1 TACKBOARDS AND MARKERBOARDS

- .1 Tackboards (TB):
 - .1 Tackboards shall be 12.7 mm thick, factory prelaminated, consisting of 6 mm thick A.S.P. natural cork, fine grain cork and 6 mm thick particleboard substrate, laminated together.
 - .2 Trim: Aluminum
 - .3 Size: Refer to drawings
- .2 Markerboard (WB):
 - .1 Face Panel: 22-gauge enameling steel base with porcelain enamel writing surface, 0.727 mm thick after firing in accordance with P.E.I. S104.
 - .2 Core: 11 mm thick impregnated sound absorbing fibreboard laminated to face panel and backing sheet.
 - .3 Back-up Sheets: 28-gauge zinc-coated stretcher level steel, in one section.
 - .4 Thickness: 12.7 mm
 - .5 Size: Refer to drawings
 - .6 Colour: White
 - .7 Acceptable Manufacturer: Rite-on, Wipe-Off by Architectural School Products or Clark Porcelain.
- .3 Trim:
 - .1 Aluminum extrusions, 6063T5 alloy with clear etched and anodized 0.051 mm satin finish.
 - .2 Perimeter: 19 mm exposed face weighing 270 g/m.
 - .3 Divider Bar: For adjacent panels of chalk/tack or tack/tack, 12.7 mm exposed face weighing 300 g/m.

1.2. FABRICATION

- .1 Frames and Trim:

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- .1 Form aluminum extrusions to receive specified boards and include end stops or cast closures as applicable at exposed terminations of head and chalk rails.
 - .2 Include perimeter trim divider bars, map rails, and chalk rails as indicated on Drawings. Chalk rail shall run full width of chalkboard.
 - .3 Fabricate frames and trim for concealed fastening. Frames shall be self-supporting.
- .2 Tackboards (TB):
- .1 Laminate facing and backing sheets together with waterproof contact cement under pressure to ensure flat, level boards that will not delaminate.
- .3 Markerboards (WB):
- .1 Fabricate boards of sizes shown in a single panel.
 - .2 Laminate facing and backing sheets to core with waterproof contact cement under pressure to ensure flat, level board that will not delaminate.

Part 3 Execution

3,1 INSTALLATION

- .1 Install products specified in this Section to meet requirements of manufacturer's specifications, and plumb, level and in true planes.
- .2 Install board panels to walls with concealed tamperproof fasteners. Where more than one unit is indicated on Drawings as adjacent to each other, install with moderate contact between units. Set board faces at a distance from wall faces so that trim fits snugly against board faces.
- .3 Fasten trim to walls with screw fastenings at 400 mm o.c. horizontally and 610 mm o.c. vertically. Conceal fastenings and adapt to mounting surface materials. Use metal plugs at masonry walls.

1.2. ADJUSTMENT AND CLEANING

- .1 Refinish damaged or defective products specified in this Section so that no variation in surface appearance is discernible. Refinish products at site only if approved.
- .2 Remove from products soil or dirt deposits resulting from fabrication and installation.
- .3 Adjust installations to operate smoothly and without force and binding.
- .4 Final cleaning is specified in Section 01710.

END OF SECTION

1 GENERAL

1.1 SECTION INCLUDES

1.1.1 Stainless steel partitions.

1.2 RELATED SECTIONS

Refer to Mechanical Specs and drawings

1.3 REFERENCES

1.3.1 ASTM International: ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.

1.4 SUBMITTALS

1.4.1 Submit under provisions of Section 01300.

1.4.2 Manufacturer's data sheets on each product to be used, including:

1.4.2.1 Literature indicating typical panel, pilaster, door, hardware and fastening.

1.4.2.2 Preparation instructions and recommendations.

1.4.2.3 Storage and handling requirements and recommendations.

1.4.2.4 Installation methods.

1.4.3 Shop Drawings:

1.4.3.1 Dimensioned plans indicating layout of toilet compartments. Dimensions to be verified on Site

1.4.3.2 Dimensioned elevations indicating heights of doors, pilasters, separation partitions, and other components; indicate locations and sizes of openings in compartment separation partitions for toilet and bath accessories to be installed in partitions; indicate floor and ceiling clearances.

1.4.3.3 Details indicating anchoring components (bolt layouts) and methods for project conditions; indicate components required for installation, but not supplied by toilet compartment manufacturer.

1.4.4 Selection Samples: For each finish product specified, one complete set of color selection guides representing manufacturer's full range of available colors, textures and patterns.

1.4.5 Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, texture and pattern.

1.4.6 Manufacturer's Certificates: Certify products meet or exceed specified requirements.

1.5 DELIVERY, STORAGE, AND HANDLING

1.5.1 Deliver, store and handle materials and products in strict compliance with manufacturer's instructions and recommendations and industry standards.

1.5.2 Store products indoors in manufacturer's or fabricator's original containers and packaging, with labels clearly identifying product name and manufacturer. Protect from damage.

1.5.3 Lay cartons flat, with adequate support to ensure flatness and to prevent damage to pre-finished surfaces.

1.5.4 Do not store where ambient temperature exceeds 120 degrees F (49 degrees C).

1.6 PROJECT CONDITIONS

1.6.1 Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.6.2 Do not deliver materials or begin installation until building is enclosed, with complete protection from outside weather, and building temperature maintained at a minimum of 60 degrees F (15.6 degrees C).

1.7 WARRANTY

1.7.1 Manufacturers Standard Warranty: Provide warranty for Stainless Steel Material: Against corrosion or discoloration for 5 years, assuming proper maintenance according to manufacturer's recommendations.

1.8 COORDINATION

1.8.1 Coordinate Work with placement of support framing and anchors in walls and ceilings.

2 PRODUCTS

2.1 MANUFACTURERS

2.1.1 Acceptable Manufacturer: ASI Global Partitions or similar

2.1.2 Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 COMPARTMENTS AND SCREENS

2.2.1 Toilet Compartments: Floor anchored/overhead braced.

1. Compartment Depth and Width: As indicated on drawings.
2. Door Width: As indicated on the Drawings.
3. Height Above Floor: 12 inches (305 mm).
4. Door/Panel Height: 58 inches (1473 mm).
5. Pilaster Height: 82 inches (2083 mm).

2.3 SOLID PHENOLIC / COLOR-THRU TOILET COMPARTMENTS

2.3.1. Doors, Panels, Screens, and Pilasters: Decorative surface sheet with solid phenolic core of melamine resin impregnated kraft paper fused under high temperature and pressure; edges machine sanded with a 45 degree radius edge. Manufacturer's standard.

1. Doors and Pilasters: 3/4 inch (19 mm) thick.
2. Panels and Screens: 1/2 inch (13 mm) thick.
3. Edges: Black core.
4. Fire Rated Material: Black core is Class B. Color thru Class A

2.3.2. Finish: Solid phenolic/color-thru, as selected from manufacturer's standard colors.

- 2.3.3. Door Hardware: Vault hinge.
1. Top Hinge: Heavy-duty "vault" type, die-cast aluminum alloy with brushed chrome-plated finish; wrap-around pilaster and door mounting, throughbolted.
 2. Bottom Hinge: Same as top hinge, with gravity-acting cams.
 3. Latch: Non-ferrous, satin chrome-plated, slide latch.
 4. Strike and Keeper: Permitting emergency access by lifting the door until latch is clear of keeper; satin chrome-plated finish.
 5. Coat Hook and Bumper: Non-ferrous, chrome-plated, with black rubber tip for doorstop.
 6. Fastening Hardware: Manufacturer's standard, Type 304 stainless steel, No. 4 satin finish, with theft-resistant barrel nuts and machine screws.
- 2.3.4. Mounting Brackets: Die-cast Type 304 stainless steel stirrup bracket, No. 4 satin finish, with stainless steel theft-resistant barrel nuts and machine screws of same material and finish.
- 2.3.5. Headrail: Manufacturer's standard anodized aluminum rail with anti-grip profile.
- 2.3.6. Pilaster Anchors, Floor Anchored/Overhead Braced: Easy Stall shoe system. 1/4 inch by 2 inch steel screws attach Easy Stall shoe to floor. Pilaster to be inserted into shoe and secured after height adjusted. Leveling adjustment to be concealed by pilaster shoe. Height/leveling adjustment to be made via machine thread bolts inserted into threaded insert in bottom of pilaster. Shoe to be constructed of type 304 stainless steel and to be 3" high.

3 EXECUTION

3.1 EXAMINATION AND PREPARATION

- 3.1.1 Inspect and prepare substrates using the methods recommended by the manufacturer for achieving best result for the substrates under project conditions. Clean surfaces thoroughly prior to installation.
- 3.1.2 Do not proceed with installation until substrates have been prepared using the methods recommended by the manufacturer and deviations from manufacturer's recommended tolerances are corrected. Commencement of installation constitutes acceptance of conditions.
- 3.1.3 If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.
- 3.1.3.1 Verify dimensions of areas to receive compartments.
 - 3.1.3.2 Verify locations of built-in framing, anchorage, bracing, and plumbing fixtures.

3.2 INSTALLATION

- 3.2.1 Install in accordance with approved shop drawings and manufacturer's instructions.
- 3.2.2 Fasten components to adjacent materials and to other components using purpose-designed fastening devices.
- 3.2.3 Adjust pilaster anchors for substrate variations; conceal anchors with pilaster shoes.
- 3.2.4 Equip each compartment door with top and bottom hinges and door latch.

3.2.5 Install door strike keeper on pilasters in alignment with door latch.

3.2.6 Equip each compartment door with one coat hook and bumper.

3.2.7 Installation Tolerances:

3.2.7.1 Maximum variations from plumb or level: 1/8 inch (3 mm).

3.2.7.2 Clearance between wall surface and panels or pilasters: 1-1/2 inch (38 mm) maximum.

3.3 ADJUSTING

3.3.1 Adjust and align hardware to uniform clearance at vertical edge of doors.

3.3.2 Adjust adjacent components for consistency of line or plane.

3.4 PROTECTION

3.4.1 Protect installed products until completion of project.

3.4.2 Touch-up, repair or replace damaged products before Substantial Completion.

3.4.3 Remove factory protective coverings and clean finish surfaces in accordance with manufacturer's instructions before substantial completion.

END OF SECTION

- 10 28 13.11 Related Work
Rough Carpentry Section 06 10 00
- 10 28 13.12 Submittals
.1 Submit shop drawings or catalogue illustrations in accordance with Section 01 10 00.
- 10 28 13.21 Fixtures
.1 Items specified are by Frost Washroom Accessories unless otherwise noted. Equivalent or better products by one of the manufacturers listed above will be acceptable.
- .1 Toilet Tissue Dispenser: Supply by owner and install by General Contractor
- .2 Robe Hooks: Bobrick B-983 or approved alternative
- .3 Soap Dispensers: Supply by owner and install by General Contractor
- .4 Paper towel dispensers: Supply by owner and install by General Contractor
- .5 Sanitary waste receptacles: Supply by owner and install by General Contractor
- .6 Mirrors: 6 mm, 18 Float Glass in accordance with CGSB 12 GP-5. Supply and install as indicated on drawings, with galvanized steel back. Mirror attachment: continuous top and bottom stainless steel J-molds. All mirrors shall be tamperproof.
- 10 28 13.31 Execution
.1 Install and secure all fixtures level and rigidly in place using the following techniques:
.1 For stud walls install steel back plate to stud prior to plaster or drywall finish. Plate to have threaded studs or plugs provided.
.2 Use tamper proof headed screws and bolts for fasteners.
- 10 28 13.32 Location and Quantity
.1 Locate accessories where indicated on drawings, and as follows. Exact locations to be determined as per Ontario Building Code (OBC)

END OF SECTION