



**Waterloo Region
District School Board**

REQUEST FOR TENDER

24-7544-RFT

Kitchener-Waterloo Collegiate Institute Washroom Renovation

ISSUE DATE: MARCH 21, 2024

ELECTRONIC SUBMISSIONS will be received by the Bidding System no later than 2:00 p.m. local time, on APRIL 11, 2024.

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00 01 00 Consultant/Professional Seals

- 1.1 The following professional seals and signatures are provided as required by Paragraph 1.21.1 (4) Division C of the Ontario Building Code and apply to the areas of expertise for which each consultant was commissioned.

1.1.1 Architect



END OF SECTION

DIVISION 00 – BIDDING AND CONTRACT DOCUMENTS

00 21 13 Instructions to Bidders

1. Designated Contact

To contact the Board or ask questions in relation to this Procurement, bidders must initiate the communication electronically through the Bidding System. The Board will not accept any respondent's communications by any other means, except as specifically stated in the Procurement. Bidders must not communicate in any manner with anyone other than the Designated Contact.

For the purposes of this procurement process, the Designated Contact will be:

Procurement Lead: Ardith Inapan
Title: Junior Buyer
Waterloo Region District School Board
Email: ardith_inapan@wrdsb.ca

2. Consultant

The Board has hired the following architect/consultant to assist in the preparation of this Tender: WalterFedy

The architect/consultant and any sub consultants are not to be contacted by any interested parties from the bid issue date to the bid award notification. The architect/consultant or any sub consultants will not respond to any direct communication.

The Board will be responsible for the contract administration of the project after the purchase order has been issued or the contract has been signed by the Board

3. Blackout Period

A black out period shall exist between the deadline for questions and the date of award. During this period, there shall be no communication between the Bidders, the Board, or any Board consultants or employees, unless initiated by the Board's Designated Representative, noted above.

4. Communication and Question Protocol

Bidders and their representatives are NOT permitted to contact WRDSB Project Managers/Leads, or agents of the Board; any member of the Board's governing body (such as Board of Trustees, or advisors); any employee, consultant, or agent of the Board's Clients, other than the Designated Contact listed above. Any attempt by a Bidder to bypass or influence the procurement process may result in disqualification of the Bidder and the rejection of the Bidder's submission.

The Board will not be responsible for any verbal statement, instruction, or representations. In case of difference between any verbal information and written document, the written document shall govern. Information obtained from any source, other than the Designated Representative, noted above in writing, shall not be relied upon.

The Board shall not be bound by any verbal instruction or information provided by any Board employee or consultant of the Board. Only responses provided in an Addendum shall form part of this Procurement Document.

All requests for information, instructions, or clarifications shall be through the Bidding System by clicking on the “Submit a Question” button found within the bid detail of the specified Procurement. Addenda will be issued accordingly.

It is the responsibility of the Bidder to seek clarification of any matter that they consider unclear before submitting their application. The Board is not responsible for any misunderstanding of the Procurement documents on the part of the Bidder.

All requests for information, instructions, or clarifications shall be through the Bidding System by clicking on the “Submit a Question” button found within the bid detail of the specified Procurement. Addenda will be issued accordingly.

5. Doing Business with the Waterloo Region District School Board

The Waterloo Region District School Board is a provincially funded institution reporting to the Ministry of Education of Ontario and is one of the larger school boards in Ontario, operating 121 school locations and serving approximately 64,000 students in the Region of Waterloo.

The Waterloo Region District School Board’s Vendor Registration program is transitioning to a fully integrated online eProcurement tool for bid opportunities through the electronic bidding system: [bids&tenders](#).

Bid opportunities may be posted as Public or by Invitation only and are based on dollar thresholds outlined in WRDSB Administrative [Procedure 4570 Procurement](#).

The Board utilizes prequalified Roster Lists for specific categories/commodities awarded through a competitive process.

Competitive opportunities including Requests of Prequalification (RFPQ) are posted on the Electronic Bidding System, [bids&tenders/wrdsb](#).

6. Anticipated Project Schedule

The following table represents the anticipated project timelines. This timeline is an estimate only and may be subject to change by the Board at any time.

DESCRIPTION	DATE
Issue Date of Tender	March 21, 2024
Non-Mandatory Pre-Bid Site Examination	Date: Tuesday, March 26, 2024 Time: 3:00 PM 787 King St W, Kitchener, ON N2G 1E3 Main Office
Deadline for Questions	April 04, 2024
Closing Date and Time	April 11, 2024, 2:00 pm local time
Anticipated Contract Start / Work begins	July 02, 2024
Substantial Completion Date	August 23, 2024
Ready for Takeover	August 27, 2024
Deemed Complete Date	September 24, 2024

7. Pre-Bid Site Examination

Bidders are strongly encouraged to attend the non-mandatory pre-bid site examination and sign the attendance sheet. Date, time and location are provided above in the Anticipated Project Schedule. The Board may not provide another opportunity to visit the site. However, absence from this site meeting will not disqualify any Bidder.

encouraged to familiarize themselves with the site(s) before submitting the Bid as a formal site meeting will not be held.

Bidders shall attend the site meeting at their own risk and hold the Board harmless for any issues or damages arising out of their attendance of the site meeting.

The Owner will not consider any claims for additional payments during the execution of the Work for extra work or difficulties encountered resulting from conditions which were either visible or could be reasonably inferred from an examination of the Place of the Work and the available project information prior to the submission of Bids

Bidders are encouraged to bring their own measuring tape, camera, or other portable tools as required to the site meeting. Bidders are solely responsible for making their own assessment of the site.

8. Secondary Site Examinations

Bidder may request a secondary site examination visit through the Bidding System by clicking on the “Submit a Question” button found within the bid details page of that Procurement. Include the contact’s name and email of the person who will visit the site.

Bidders shall attend the secondary site examination visit at their own risk and hold the Board harmless for any issues or damages arising out of their attendance of the site meeting.

Bidders not in attendance of a Mandatory Pre-Bid Site Examination meeting will not be provided an opportunity to a secondary site examination visit.

Bidders must adhere to all communication protocols, as describe in Section 1.0, Sub Section 4. Communication Protocol.

The Owner will not consider any claims for additional payments during the execution of the Work for extra work or difficulties encountered resulting from conditions which were either visible or could be reasonably inferred from an examination of the Place of the Work and the available project information prior to the submission of Bids.

Bidders are encouraged to bring their own measuring tape, camera, or other portable tools as required to the site meeting. Bidders are solely responsible for making their own assessment of the site.

9. Examination of Bid Documents and Work and Submitting Questions

- i. Bidders are required to fully acquaint themselves with the Procurement documents; fully inform themselves of all conditions, limitations and requirements involved in the Procurement; and obtain all information that may be necessary to complete those requirements before submitting a Bid.
- ii. Submission of a Bid shall be considered conclusive evidence that the Bidder has satisfied itself as to the requirements of this Procurement.
- iii. In the event a Bidder discovers any errors, discrepancies, inconsistencies, or omissions or requires clarification within this Procurement, they are to submit their observations and/or questions through bids&tenders by clicking on the “Submit a Question” button found within the bid detail of the specified Procurement by the Deadline for Questions specified in this paragraph.
- iv. Bidders are strongly encouraged to ask clear and concise question(s) or statements citing the relevant section of the Bid Solicitation Document. The Board cannot guarantee a response to questions received by the Board after the Deadline for Questions.
- v. The Board has endeavored to provide complete, correct information and estimates to enable Bidders to properly assess and determine the scope and complexity of the Work prior to submitting a Bid.

- vi. Bidders are solely responsible for determining if they require additional information or if anything appears incorrect or incomplete. The onus is on the Bidder to contact the Designated Representative prior to the Deadline for Responses indicated in this document, if they have any questions or queries whatsoever or find omissions from or discrepancies in this Bid Solicitation document, unnecessary restrictions in the terms of reference, or should they be in doubt as to the meaning of any part of this document.
- vii. Written responses or clarifications to issues of substance will be shared with all Bidders in the form of an Addendum.

10. Electronic Bid Submission Only / Electronic Bidding System

Competitive opportunities including Requests of Prequalification (RFPQ) are posted on the Electronic Bidding System, [bids&tenders/wrdsb](#).

The Bidder must submit their bid through the Bidding System only. Any other form of submittal will not be considered. It is the Bidder's responsibility to read the Procurement documents thoroughly including all attachments and addenda, if any, as these contain information that is highly pertinent to this Procurement and to clarify any details with the Designated Representative prior to their submission. To be considered, Bidders must respond to this Procurement.

- i. In order to submit a bid, bidders must be registered with [bids&tenders](#). The sole onus is on the bidder to have the most current correct information set-up in Bids and Tenders including but not limited to plan taker contact information, categories, and agency.
- ii. All Bids shall be submitted through [bids&tenders](#) only. The onus is on the Bidder to ensure all requirements of the Bid Solicitations are submitted.
- iii. If the bidder encounters technical issues, the onus is on the bidder to have this resolved prior to the closing date and time by contacting support@bidsandtenders.ca
- iv. Bidder shall have a "Vendor account" in the Bidding System and shall ensure the account is created with the Bidders full legal company name and be registered as a "plan taker" for this bid solicitation. Only the plan takers will have access to download bid documents, receive addenda email notifications, download addenda and to submit their bid electronically through the Bidding System.
- v. The onus is on the Bidder to ensure that the Bid is received in the Bidding System on or before the Closing Time. The Closing Time shall be determined by the Bidding System's web clock. The timing of the Bid submission shall be based on when the Bid is received by the Bidding System, not when a Bid is submitted by a Bidder.
- vi. Bidders shall allow sufficient time to upload their Bid submission including all requirements as stated in this Procurement and to resolve any issues that may

- arise as Bid transmission can be delayed in an “internet traffic jam” due to file transfer size, transmission speed, and other electronic considerations
- vii. All prices including provisional/supplementary pricing, if requested, shall be submitted in the Schedule of Prices forms available through the Bidding System.
 - viii. The Owner reserves the right to accept or reject any or all provisional bid prices submitted, and such prices shall remain in effect for the duration of the Contract. Failure to submit provisional prices where required may result in the Bid being declared non-compliant.
 - ix. Bids submitted by fax or paper copy, or any other format will not be accepted.
 - x. The Bidding System will not accept Bids after the Closing Time as determined by the Bidding System’s web clock.
 - xi. The Board hereby consent to the use of an Electronic Signature for the signing of all documents requested hereunder. Acceptable forms of signatures include, but are not limited to, the typing of the Bidder’s authorized signing officer’s name or the inclusion of an image of the Bidder’s authorized signing officer’s signature, so long as the electronic signature is sufficient to identify the Bidder’s authorized signing officer. The Bidder’s authorized signing officer agrees that whatever form of electronic signature is provided constitutes a signature for the purpose of executing all documents requested hereunder.
 - xii. Upon submitting a Bid, the Bidding System will send a confirmation email to the Bidder advising that the Bid was submitted successfully. If a Bidder does not receive a confirmation email despite submitting a Bid, the Bidder should contact technical support of the service provider hosting the Bidding System via email: support@bidsandtenders.ca
 - xiii. There will be no public opening for this Bid.
 - xiv. If a Bid is a joint submission of two (2) or more firms, a single Bid is to be coordinated and submitted by the lead Bidder with the required information. If two or more parties submitted a joint response to this Bid Solicitation, they shall decide between them who is to be the Bidder, without any involvement of the Board.
 - xv. Your online Bid submission shall be taken as your statement that you understand the requirements and agree to comply with the requirements as well as terms and conditions stated in this Bid Solicitation document, including Board’s Standard Terms and Conditions. Your Bid submission through the Bidding System confirms that you have checked and confirmed your pricing and by submitting the Bid online, you agree that you have not omitted any items from your Bid.
 - xvi. For construction projects with Bids above \$200,000 the Successful Bidder will be required to execute a “Canadian Standard Form of Construction Contract to a Stipulated Sum” (CCDC 2 - 2020 including amendments thereto as set out in this Procurement.

11. Bid Prices

- i. The amounts stipulated on the Schedule of Prices are intended to cover the cost of the complete Work as described in this Bid Solicitation Document.
- ii. All prices shall be in Canadian Funds, Free On Board (FOB) Destination, Freight Prepaid (Board locations).
- iii. HST is extra and shall not be included in Bid prices.
- iv. The person submitting the Bid on behalf of the Bidder must have authority to bind the Bidder.
- v. Quantities may be estimated, and therefore the Board, at its discretion, may purchase more or less of the commodity based on the unit price bid.
- vi. All information required on the forms shall be completed in full including references and subcontractors that it proposes to use for Work described. Changes made to the list of nominated subcontractors after the closing of the Bid, must have prior written approval of the Board's Single Point of Contact.
- vii. All price(s) submitted shall be a reasonable price for each particular item as determined by the Board and under no condition will an unbalanced Bid be considered. Submissions containing prices which appear to be so unbalanced as to likely affect the interests of the Board adversely will be clarified and may be rejected.
- viii. Unit prices and/or provisional/supplementary pricing, if any will set the foundation for any approved increases or decreases in Work. The unit prices must remain fixed and firm for the term of the Contract, unless otherwise specified in this Bid Solicitation document.
- ix. Provisional or Supplementary Pricing may or may not be required for completion of the Work called for under the Contract. The Board will decide necessity of these items and quantities thereon based on the unit prices(s) included in their Bid. If Provisional or Supplementary items are not purchased, or quantities are less than estimated, no adjustment or compensation will be awarded to the Bidder by the Board. Provisional or Supplementary pricing is not used for comparison of Bids for award purpose.

12. References – Not Applicable

Bidders must provide a minimum of three (3) references for work of comparable size and scope that has been successfully completed within the last five (5) years. One (1) reference must be from the WRDSB, if you've done previous work, otherwise one (1) reference must be of a government entity of similar size, scope, and complexity.

References must contain information about your clients including a complete organization name, contact person's names, title, telephone number and/or email address, details of the work provided, start and end dates of the work, and total cost of the work. Bidders cannot use references that pertain to another Vendor/Contractors' work.

The Board reserves the right to contact the clients noted to verify information provided

and assess overall client experience. Bidders should ensure that their references are prepared to provide a response if contacted by the Board. If the Board is unable to obtain a satisfactory reference, or if the reference does not respond to the reference call (after Board's best efforts), or if the reference chooses not to comment, the reference will be deemed unsatisfactory, and the Board may ask the Bidder for additional references. Unsatisfactory references may result in the Bidder's submission being rejected.

13. Addenda

All Addenda issued through the Bidding System shall form part of the Bid Solicitation Document.

The Board shall not be bound by any verbal instruction or information provided by any Board employee or consultant of the Board. Only responses provided in an Addendum shall form part of this Bid Solicitation Document.

Prior to bid closing any discrepancies, omissions, questions, or clarifications regarding the procurement documents must be sent immediately through the Bidding System by clicking on the "Submit a Question" button found within the bid details page of that opportunity, no later than the deadline noted in the Anticipated Project Schedule. Those that are deemed pertinent to the Bid Solicitation Document will be addressed in the form of an Addendum.

It is understood and acknowledged that while the Bid Solicitation document includes specific requirements, a complete review and recommendation is required. Minor items or details not herein specified, but obviously required for the Work shall be provided as if specified in conformance with modern practices. Any omissions or errors or misrepresentation of these requirements and specifications within the Bid Solicitation document shall not relieve the Bidder of the responsibility of providing the services or products as aforesaid

Bidders shall acknowledge the receipt of all Addenda in the Bidding System prior to the submission of a Bid. Where Addenda has been issued, the system will not allow the Bidder to submit a Bid prior to acknowledging said Addenda.

Where an Addendum is issued after a Bid has been submitted, the Bidding System will automatically withdraw the submitted Bid. The Bid status will change to incomplete and will not be accepted by the Board as a submitted Bid. It is the responsibility of the Bidder to make any required adjustments to their submission, acknowledge all Addenda and ensure the Bid has been received by the Bidding System. Bidders should check the Bidding System for Addenda up until the Bid Closing Date and Time.

Addenda cannot be acknowledged after the Closing Date and Time.

14. Edit and Withdrawal of Bid Submission

- i. A Bidder who has submitted a bid may edit or withdraw its bid at any point up to the Closing Date and Time.

- ii. Any edits to a bid submission will cause the submission to automatically be withdrawn. The bid submission must be re-submitted to be accepted.
- iii. The Bidder is solely responsible for ensuring that its re-submission is received prior to Closing Date and Time. The closing time shall be determined by the web clock within the Bidding System. After such time, requests to withdraw Bid will not be considered.

15. Irrevocable Period

Bids will be irrevocable by the Bidder, and open for acceptance by the Board, for **60 (sixty) days** following the Closing Date.

16. Tie Bids

Where two (2) or more Bids have been received reflecting the same, lowest Bid price, the time stamp for date and time submission in the Bidding System will dictate the award (earliest submission shall prevail).

17. Bid Irregularities

Bids with one or more of the following may be declared informal and/or disqualified and/or non-compliant:

- i. Bids that do not comply strictly with all terms and conditions of the Bid Solicitation Document.
- ii. Bids that are incomplete, conditional, qualified, or obscure.
- iii. Bids that are based upon an unreasonable period of time for completion of the Work.
- iv. Bids received from Bidders involved in Claims with either of the Board or banned or on probation with the Board.
- v. Bids received from any Bidder deemed to be unskilled or experienced in the work contemplated, or those who have defaulted on, or failed to satisfactorily complete other similar work in the past.
- vi. Bids submitted by Bidders that are not prequalified, where applicable.

18. Bid Review

- i. All Bids received on or before the Closing Time will be reviewed for compliance based on this Bid Solicitation document. Non-compliant Bids will be rejected. Bids not meeting any of the mandatory requirements included in this Bid Solicitation document will be disqualified. Bidders may be contacted to clarify their submissions.
- ii. Should there be any error in extensions, additions or computations, the Board shall be entitled to correct such errors based upon the unit prices supplied, and the corrected total shall be considered as representing the intention of the Bidder and shall be used as the basis for comparison of Bids.

- iii. It is the Bidder's responsibility to satisfy the Board that they can comply with the requirements contained within this Bid Solicitation document and that they possess the necessary inventory, equipment, facilities, resources, and staff to perform the work specified in this Bid Solicitation document. Bidders may be required to submit evidence of above in a form acceptable to the Board. Substitution of materials, equipment, or methods different from that outlined in the terms of reference will not be accepted unless provided for within this Bid Solicitation document or with the written approval of the Board.
- iv. The Board also reserves the right to examine Bidder's facilities, equipment and visit the subcontractors or sub-consultants proposed and/or Bidder's existing and past clients. The award decision may be revised based on the above.
- v. The Board will not be responsible for travel costs if travel is required. No additional charges will be accepted by the Board for any cost incurred by the Bidder or any other party in participating in the Bid evaluations.
- vi. The Board may, in its sole discretion, check references, conduct credit checks, review the litigation history and history of professional liability or other insurance claims, and obtain any other type of information that might aid the Board in its selection. The Board reserves the right to consider all, or any information received from all available sources, whether internally or externally obtained. The Board may disqualify any Bid from further consideration based on results of reference or credit checks or review of litigation or claim history. The foregoing may include the Board's own experiences with the respective Bidder(s) or any of the subcontractors and sub-consultants proposed in their Bid.

19. Post-Award Meeting

A post-award meeting may be held consisting of the successful Vendor/Contractor, and their key personnel assigned to the contract, the Board's Project Manager/Lead and if applicable the Architect/Consultant, to discuss the program and exchange information before the contract commences. This meeting will be at the sole expense of the Bidder and shall be considered part of the contract. If applicable, the meeting date will be scheduled after the Award.

20. Intent to Award

Bidders are advised to not make any business decisions, assignment or any sub-contract for the execution of the Work, before receiving a Purchase Order form the Board.

- i. Subject to the reserved rights of the Board and availability of funds, the lowest compliant Bid will be recommended for award.
- ii. There shall be no obligation on the Board as a result of seeking Bids or conducting the procurement process and the Board reserves the right to pursue other

- Bidders, cancel the Bid Solicitation, issue a revised request, or to pursue any other course of action which would aid in meeting their needs.
- iii. If Applicable, within **twenty-four (24) “workday” hours** of receiving a request or intent to award from the Board, the Bidder (the “Recommended Bidder”) shall provide a list of all Subcontractors/Subconsultants that it proposes to use for all Work described in this Procurement including the Company Name, Sub Trade Category and if applicable, related Divisions.
- iv. Within **seven (7) calendar days** of receiving a request or intent to award from the Board, the Bidder (the “Recommended Bidder”) shall provide the following mandatory requirements:
- a. Insurance certificate with coverage specified in the Bid Solicitation Document.
 - b. WSIB clearance certificate valid on date of award or an exemption letter (if applicable and requested).
 - c. Non-Disclosure Agreement (NDA) duly signed by the authorized signatory (to be renewed annually). The Board will provide this form.
 - d. Bonding Requirements, if applicable, as specified in the Bid Solicitation Document.
 - e. An executed Board issued Form of Agreement, if applicable, and duly signed by the authorized signatory.
 - f. Any other submittal specified in the Bid Solicitation Document or in the intent to award, as a requirement of award.
 - g. For construction projects above \$200,000 the Successful Bidder will be required to execute a “Canadian Standard Form of Construction Contract to a Stipulated Sum” (CCDC 2 – 2020) including amendments thereto as set out in this Procurement.
- v. The documents listed below will be incorporated as deemed necessary by the Board, into the Contract with the Bidder. If there is a discrepancy between the wording of one document and the wording of any other document that appears on the list, the wording of the document that first appears on the list shall take precedence:
- a. Board approved change order(s) or Contract / Agreement / CCDC 2 -2020 amendment(s)
 - b. Purchase Order(s), Contract(s) Agreement(s) / CCDC 2 -2020 executed with the Bidder including exhibits
 - c. Bid Solicitation document issued by the Board, including addenda, if applicable
 - d. Bid submitted by the Bidder

21. Post Award

Ministry of Labour Notice of Project confirmation notice to be uploaded in Bids and Tender prior to mobilization and/or prior to first project draw

In addition to all of the Board's other remedies, if a recommended Bidder fails to satisfy the requirements and/or execute the Form of Agreement or any other applicable conditions within seven (7) calendar days of notice of selection, the Board may, in their sole and absolute discretion and without incurring any liability, rescind the selection of that Bidder.

The Bidder may protest within the five (5) day Notice of Intent to Award, after that, the protest will not be reviewed or accepted.

22. Award Notification

For procurements valued at \$100,000 or more, and in accordance with the Broader Public Sector Procurement Directive, once the Board is satisfied that all requirements are met, the project award notification will be posted in the same manner as the procurement documents were posted. The notification will be posted after the purchase order and/or agreement between the successful bidder and the Board has been issued/executed. The award notification will list the name of the successful bidder, agreement start and end dates, and any extension options.

END OF SECTION

00 21 14 – General Contractors and Subcontractors

1.0 General Contractor Roster List

- 1.1 Only invited prequalified General Contractors, as a result of the award of a competitive prequalification process, #23-7430-RFPQ, may submit a bid for this opportunity. Invitations are based on awarded Project Size Categories. Roster approved GCs can only bid on the projects size categories based on the award.

2.0 Subcontractors/Subconsultants

- 2.1. Refer to specification sections for products, suppliers and installers that will be required.
- 2.2. The Subcontractor/Subconsultant list is not required at time of bid submission.
- 2.3. The Subcontractor/Subconsultant list is mandatory after the bid closing date from the Recommended Bidder **within twenty-four (24) hours** of receiving a request or intent to award from the Board.
- 2.4. The Bidder (the “Recommended Bidder”) shall provide a listing in a Board approved formatted list of Subcontractor/Subconsultant that it proposes to use for all Work described in this Procurement including the specification sections, as per the following:
 - 2.5.1 Bidders shall select experienced and qualified Subcontractor/Subconsultant or Suppliers in their field to perform or supply an item of Work indicated in this Procurement.
 - 2.5.2 The Bidder shall be fully aware of the capability of each Subcontractor/Subconsultant and/or Supplier included in its bid, including but not limited to technical ability, financial stability and ability to maintain the proposed construction schedule.
 - 2.5.3 The Owner reserves the right to reject any nominated Subcontractor/Subconsultant or supplier, based on the following but not limited to unsatisfactory past performance, suspended/removed from doing business with the Board and/or outstanding/unresolved corrective action notice issued by the Owner to the Subcontractor/Subconsultant within the last three (3) years.
 - 2.5.4 The Owner reserves the right to obtain information from the Bidder and from third parties respecting the qualifications and experience of the Bidder’s nominated list of Subcontractor/Subconsultant for such item of the Work.
 - 2.5.5 The Board reserves the right to examine Bidder’s facilities, equipment and visit the Subcontractor/Subconsultant’s proposed.
 - 2.5.6 The substitution of any Subcontractor/Subconsultant and/or Suppliers after the list is submitted will not be accepted unless a valid reason is given in writing to and approved by the Owner, whose approval may be arbitrarily withheld.
 - 2.5.7 Where a bidder lists “own forces” in place of a Subcontractor/Subconsultant, the bidder shall carry out such item of the Work with its own forces.

- 2.5.8 Where “own forces” have been listed by a bidder, the Owner reserves the right to obtain information from the bidder and from third parties respecting the qualifications and experience of the bidder’s “own forces” for such item of the Work.

END OF SECTION

00 21 15 – Scope of Work

Renovation to existing nurse's room and boys' gang washroom to accommodate a universal washroom (within nurse's room), and individual washrooms for everyone's use. The renovation requires piping removal, routed from the existing basement below and removal of lockers and section of the existing corridor wall, to open the line of sight into the washrooms, for students' safety.

END OF SECTION

00 31 34 – Subsurface Investigation Report – Not Applicable

1.0 General

1.1. Related Sections

- .1 This section describes requirements applicable to all Sections within Divisions 02 to 49.

1.2. SUBSURFACE INVESTIGATION REPORT

- .1 An investigation report with respect to the applicable building site and important immediate affected surroundings, is titled as follows:
 - .1 Title:
 - .2 Dated:
 - .3 Prepared By:
- .2 A copy of this detailed investigation report is included as an appendix to this section.
- .3 The subsurface investigation report records properties of the soils, subgrade conditions, and offers recommendations for the design of foundations.
- .4 The report as prepared primarily for the use of the Consultants.
- .5 The recommendations given shall not be construed as a requirement of this Contract unless also contained in the Contract Documents.
- .6 The report, by its nature, cannot reveal all conditions that exist or can or might occur on the subject site. Should subsurface conditions be found or be a concern thereto, or to vary substantially from the investigation report, changes in the design and construction of foundations will be made, with resulting credits or expenditures to the Contract Price accruing to the Owner.

END OF SECTION

Appendix 00 31 34A – Soil Report – Not Applicable

00 41 73 – Supplementary Bid Information

a) General Contractor

A Site Supervisor and Project Manager, assigned to manage and supervise the Work, must be named in the Bidder's Contact Information Specification section through the electronic Bidding System only and include resumes. Personnel will be subject to approval by the Board and cannot be changed without prior written approval from the Board.

b) Identified Price Form- Not Applicable

Such work and amounts ARE included in the Bid Price.

The Board has requested these prices for information purposes only and does not intend to modify any Scope of Work based on the prices indicated.

NOTE – Information below is for Reference purposes only. Bidders will complete all price bid forms electronically through bids&tenders. Do not complete or submit this sheet.

Reference/Information Only

Description	Lump Sum
NA	

00 56 13 – Definitions Stipulated Price

1.1. Definitions Declaration

- .1 CCDC 2-2020 Edition, Stipulated Price Contract as may be amended, forms the basis of Definitions between the Owner and Contractor.
- .2 These Definitions are bound to the CCDC 2 Definitions and CCDC 2 General Conditions.

1.2. Supplementary Words and Terms to CCDC 2-2020

- .1 The following words and terms are additional to the CCDC 2 Definitions.
- .2 Addendum: A document that amends the Bid Documents during the Bidding Period and becomes part of the Contract Documents when a Contract is executed. (Plural: Addenda).
- .3 Agreement: The signed and sealed legal instrument binding parties in a Contract, describing in strict terms their mutual arrangement, roles and responsibilities, commencement, and completion responsibilities.
- .4 Alternative Price: The amount stipulated by a Bidder for an Alternative and stated as an addition, a deduction, or no change to the Bid Price.
- .5 Authorities: Those having jurisdiction under law over Work or Parts thereof.
- .6 Bid: To offer as a Bid stating for what price a Contractor will assume a Contract.
- .7 Bid Documents: A set of documents consisting of the Instructions to Bidders, Bid Form, Contract Documents, and other information issued for the benefit of Bidders to prepare and submit a Bid.
- .8 Bid Form: The specific and detailed form used to collect information about a Bid.
- .9 Bidding: The process of preparing and submitting a Bid.
- .10 Construction Documents: The Drawings and Project Manual. When combined with a Contract and Contract conditions, these documents form the Contract Documents.
- .11 Contingency Allowance: An additional monetary amount added to a Project cost estimate and designated to cover unpredictable or unforeseen items of Work. The amount is usually based on some percentage of the estimated cost and expended and adjusted by Change Order. It is not intended to cover additions to the scope of Work.
- .12 General Conditions: That part of the Contract Documents which sets forth many of the rights, responsibilities and relationships of the parties involved in a Contract.
- .13 Exposed: Visible at completion of Work, in usable areas as well as interior of closets, cabinets, drawers, storage and service rooms, stairwells and exterior surfaces.

- .14 Instructions To Bidders: Instructions contained in the Bid Documents to convey an Owner's expectations and criteria associated with submitting a Bid.
- .15 Ready for Takeover: *Ready-for-Takeover* shall have been attained when the conditions set out in GC12.1, SC 55.1 , 12.1.1
- .16 Section: A portion of a Project Specification covering one or more segments of the total Work or requirements. Sections are included in a Project manual as required to meet Project requirements.
- .17 Standard: A document describing a grade or a level of quality, which has been established by a recognized agency or organization, utilizing an internal voting process.
- .18 Separate Price: A separate price for work to be added to the base price if selected by the Owner. This price type is not a part of the base bid price.
- .19 Stipulated Price: An amount set forth in a Stipulated Price Contract as the total payment for the performance of the Work. Sometimes referred to as a stipulated sum or a lump sum stipulated price.
- .20 Tender: Refer to definition of Bid.
- .21 Unit Price: The amount payable for a single unit of Work as stated in a Schedule of Prices.
- .22 Install: To remove from site storage, move or transport to intended location, install in position, connect to utilities, repair site caused damage, and make ready for use.
- .23 Supply: To acquire or purchase, ship or transport to the site, unload, remove packaging to permit inspection for damage, re-package, replace damaged items, and safely store on-site.
- .24 Provide: To Supply and Install
- .25 Wherever words 'approved', 'selected', 'satisfactory', 'directed', 'permitted', 'inspected', 'instructed', 'required', 'submit', 'ordered', 'reviewed', 'reported to', or similar words or phrases are used in Contract Documents, it shall be understood, unless context provides otherwise, that words 'by Consultant' or 'to Consultants' follow.
- .26 Words 'by others' when used in Specifications or on Drawings shall not mean by someone other than Contractor. Only means by which something shown or specified shall be indicated as not being in Contract is by initials 'NIC' or words 'not in Contract', 'by Owner', or 'by Other Contractor'.

END OF SECTION

00 72 13 – Standard Terms and Conditions

1. **Applicable Terms and Conditions**

None of the standard or other terms, conditions, or policies of the Bidder, whether published or otherwise shall be of any effect unless accepted by the Board in writing. This includes, without limitations, terms in publications, web-site, sales invoice, delivery document as well as those commonly applied by the Bidder. Board's acceptance of goods, equipment or service, acknowledgement thereon or paying invoices shall not imply acceptance of such terms, conditions, or provisions.

2. **Bankruptcy**

If, during the term of the Contract, the Vendor/Contractor makes an assignment for the benefit of creditors, or becomes bankrupt or insolvent, or makes a proposal to its creditors, the Contract with the Vendor/Contractor shall immediately be terminated, and the Board shall be entitled to enter into an agreement with another party without the consent of the Vendor/Contractor.

3. **Basis of Award (Price factor)**

Bidders shall be deemed to have included all costs related to the Work in the Total Price as provided in their Bid, except for items clearly identified as provisional in the Bid Solicitation document. In no case shall the invoicing for the entire Work performed exceed the Total Price, unless additional Work is ordered by the Board in writing. The unit prices as well as provisional pricing shall be used to invoice the additional or provisional work, as required by the Board. For the purpose of award, the Total Price will be considered as representing the intention of the Bidders and will be used as the basis for comparison of Bids for the price factor.

4. **Bonding Requirements**

Bonding is required if the project is equal to or greater than \$200,000.00.

Note: The Bidding System has flagged these fields as mandatory. If your bid is less than \$200,000.00, you may upload a pdf document stating: Not Applicable.

i. **Bid Amount**

Bonding requirements are based on the total base bid amount INCLUSIVE of ALL applicable taxes.

ii. **Bid Deposit Bond & Agreement to Bond**

Bid submissions must be accompanied by a bid deposit in the form of a digital Bid Bond in an electronically verifiable and enforceable (e-Bond) format in the amount of 10% of the total base bid (inclusive of HST) made payable to the Waterloo Region District School Board (the 'Board') as surety that, if the Bid is accepted, a Contract will be entered into for the proper performance of the work. For more information, contact your surety company or visit the Surety Association of Canada website.

Bid Submissions must be accompanied by an Agreement to Bond in the form of a digital Bond in an electronically verifiable and enforceable (e-Bond), completed and executed by the Bidder's Surety, assuring the successful Vendor/Contractor shall provide for a Performance Bond for 50% of the total Contract Price, and a Labour and Material Payment Bond for 50% of the total Contract Price.

Bidders shall upload their digital Bid Deposit Bond and Agreement to Bond separately to the Bidding System, in the bid submission files labeled "Bid Deposit Bond" & "Agreement to Bond". If both Bonds are within one (1) document, upload it in both files. All instructions and details for accessing authentication shall be included with the digital Bonds uploaded in the Bidding System. Do not include and/or upload Performance Bond and Labour and Materials Bond in this section.

Bids that do not contain the bid deposit(s) in the required amount will be declared non-compliant and will be rejected. A scanned PDF copy of bonds or original certified cheque, bank draft, money order, etc. are not acceptable as Bid deposit and will result in your Bid being rejected.

The bid deposit of the Bidder whose submission is accepted shall be forfeited by the Bidder should the Bidder fail to execute a Contract or provide the necessary documents as required within this Bid Solicitation document (including but not necessarily limited to: signed agreement, satisfactory security, insurance certificate, appropriate Workplace Safety and Insurance Board letter of clearance certificate) within the time stipulated as a written notice from the Board.

For bid amounts where Bonding is not requested, the Awarded Bidder agrees to pay to the Board the difference in costs between the bid submitted and the final contract should the Awarded Bidder fail to either execute or deliver the contract documents in accordance with the Bid Solicitation within seven (7) calendar days of written notification of the award of the contract.

iii. Performance and Labour & Materials Bonds

For bid amounts where bonding is required, inclusive of all taxes, the successful Bidder shall provide a digital Bid Performance and Labour and Materials Bond in an electronically verifiable and enforceable (e-Bond) format in the amount(s) of not less than 50% Performance Bond and a 50% Labour and Materials Bond of the total Contract Price made payable to the Waterloo Region District School Board (the "Board") as surety that, if the Bid is accepted, a Contract will be entered into for the proper performance of the work and extends protection to Subcontractors, Suppliers, and any other persons supplying labour or materials to the Project. For more information, contact your surety company or visit the Surety Association of Canada website.

If the successful Bidder fails to provide a performance bond and/or labour and materials bond when requested, the Board may declare the bid deposit forfeited and the Bidder will be held responsible for any increased costs or damages incurred by the Board. Any Bidder who fails to provide all required documents within the timelines provided, or otherwise fails to enter into an agreement with the Board upon notice of being the successful Bidder may be subject to future bidding constraints by the Board.

Performance bond shall guarantee all conditions as set out in the contract, including proper execution of the work and for all matters for which the successful Bidder is responsible for throughout the two (2) year period of maintenance and warranty.

Any costs associated with performance bond are the responsibility and cost of the Bidder.

Bonds must be submitted through the Bidding System within seven (7) calendar days of receiving the Intent to Award.

5. Business Code of Conduct for Board Employees

The Board will not knowingly purchase goods and/or services from Vendor/Contractors who operate in contravention of local and international laws. If a product and/or service supplied to the Board is discovered to be in contravention, the Board reserves the right to rectify the issue with the Vendor/Contractor, including the cancellation of the contract.

The Board expects that all employees and Vendor/Contractors act within the parameters of the [Administrative Procedure 4360 Principles of Business Conduct for Board Employees](#)

6. Code of Conduct for Vendors/Contractors

These Guidelines cover any vendor, contractor, supplier, business, firm, company or individual doing work, providing a service or delivering goods on any Waterloo Region District School Board property, as well as the contractor's employees, sub-contractors, agents, consultants, and others on site in connection with the contractor's work or at the vendor/contractor's express or implied invitation.

- i. **Courtesy and Respect:** all vendor/contractors and their employees must conduct themselves in a manner that is lawful, courteous, businesslike, and respectful of all students, staff, faculty, guests, or visitors.
- ii. **Language and Behavior:** vendors/contractors and their employees cannot engage in behavior that is rude, threatening, or offensive. Use of profane or insulting language is prohibited. Harassment of any type, including sexual harassment is strictly prohibited. Abusive, derogatory, obscene or improper language, gestures, remarks, whistling, cat calls or other disrespectful behavior cannot be tolerated. Rough housing, fighting, fisticuffs, physical threats,

- destruction of property, vandalism, littering, or physical abuse of anyone on WRDSB property are not permitted under any circumstance.
- iii. **No Weapons, Alcohol, or Drugs:** The use, possession, distribution, or sale of any weapon, alcohol, illegal drug, or controlled dangerous substance by any contractor or contractor's employee is prohibited. Offenders will be removed from WRDSB property and/or reported to the local Police Department.
 - iv. **Smoking:** Contractors and their employees are not permitted to smoke on WRDSB property, in or near any buildings.
 - v. **Fraternization:** Vendor/Contractors and their employees may not fraternize or socialize with WRDSB students or employees.
 - vi. **Appearance:** Vendor/Contractors and their employees are required to wear appropriate work wear, hard hats and safety footwear, as the case may be, while on WRDSB property. Articles of clothing must be neat and tidy in appearance, and cannot display offensive or inappropriate language, symbols or graphics. WRDSB has the right to decide if such clothing is inappropriate.
 - vii. **Reporting:** The Vendor/Contractor is required to report any matter involving a violation of these rules of conduct, any matter involving health or safety, including any altercations, to WRDSB Facilities staff.

The Vendor/Contractor is responsible for its employees, agents, consultants and guests. If prohibited conduct does occur, the vendor/contractor will take all necessary steps to stop and prevent any future occurrence. Any breach of these conditions will result in the removal of the person responsible from the school premises and prohibited actions could result in the termination of any contract or agreement with WRDSB.

7. Compliance with Laws, Acts and Regulations

Vendor/Contractors shall abide by all applicable provincial and federal laws, as well as Board Policies. Some of the applicable laws are highlighted below for information purposes only. In case of any discrepancy between this Bid Solicitation Document and the provision of applicable laws, the latter shall prevail. This list is not intended to be a comprehensive summary of relevant laws or be a complete list of applicable regulations or interpretation of the provisions of any laws

- i. Broader Public Sector Accountability Act, 2010
- ii. Construction Act
- iii. Architect Act
- iv. Canada Revenue Agency (CRA) regulations
- v. Accessibility for Ontarians with Disabilities Act (AODA)
- vi. Workplace Safety and Insurance Act (WSIB)
- vii. Occupational Health and Safety Act
- viii. Trade Agreements (CETA/CFTA)

- ix. Education Act
- x. [Fighting Against Forced Labour and Child Labour in Supply Chains Act](#)
- xi. [WRDBS Procurement Services Policies website](#)
- xii. [WRDSB Policies and Procedures](#)

Non-compliance to provincial and/or federal laws, or Board Policies may result in rejection of the Bidder's Bid submission and/or termination of Contract.

Bidders shall make themselves aware of provisions in all applicable provincial and federal laws as well as Board policies and ensure full compliance. Non-compliance may result in rejection of Bid and/or termination of Contract.

The successful Bidder(s) will be required to comply with all applicable federal, provincial laws as well as Board policies in performing its obligations under the Contract including, without limitation, the Occupational Health and Safety Act, as amended, and the Workplace Safety and Insurance Act, 1997, as amended, and Accessibility for Ontarians With Disabilities Act, 2005, S.O. 2005, c.11, Accessibility Standards for Customer Services O. Reg. 429/07 requirements, under the Accessibility for Ontarians With Disabilities Act, 2005, as amended, or any successor legislation applicable, and to provide to the Board, upon request, periodic reports and evidences confirming such compliance.

By supplying the goods or equipment and/or providing services, the Vendor warrants that the goods or equipment supplied, and services provided to the Board conforms in all respects to the standards and codes set forth by federal and provincial agencies. Failure to comply with this condition will be considered a breach of this Contract.

The obligations of the parties and resolutions of any disputes shall be governed by and construed in accordance with the laws of the Province of Ontario and the federal laws of Canada, including the Construction Act, as to interpretation and performance, and shall be treated, in all respects, as an Ontario contract. The parties shall attorn to the exclusive jurisdiction of the courts of the Province of Ontario.

8. Confidential Information and Municipal Freedom of Information and Protection of Privacy Act

All information and documentation provided by the Board or to the Board in connection with this Procurement, before or after the issuance of this Procurement is the sole property of the Board and shall be treated as confidential, subject to the provisions of the Municipal Freedom of Information and Protection of Privacy Act (MFIPPA).

Bidders shall identify any confidential information in their Bid Submission. The Board will make reasonable efforts to safeguard confidential information, subject to its disclosure requirements under MFIPPA or any other disclosure requirements imposed by law or by order of a court or competent tribunal. Bidders are advised that their Bid submissions may be disclosed, on a confidential basis, to advisers retained by the Board to advise or assist with the Bid process, including the evaluation of Bid submissions.

Bidders should be advised that when submitting a Bid, the name, title, and contact information will be made public upon request. Under MFIPPA, and as a record of the Board, the Bid prices submitted and agreed to under contract with the Board can also be made available through a Freedom of Information request. Bidders will be notified regarding requests for any other information submitted in a Bid; information may be disclosed to a requester in whole or part unless otherwise considered exempt from disclosure under MFIPPA.

9. Confirmation to Proceed

No work shall commence until the Board has issued a purchase order and/or contract, if applicable to the successful Bidder. Goods/Service or Work as described shall not commence until all the required documents have been submitted to Procurement Services and the Form of Agreement and/or the CCDC 2 - 2020 if applicable, are executed by the Successful Bidder and the Board. For payment purposes, a Purchase Order shall be generated and issued to the Successful Bidder. The Purchase Order number must appear on all invoices in order to ensure prompt payment.

10. Conflict of Interest

By submitting a Bid, the Bidder confirms that they have no conflict of interest with respect to other work and/or other clients. The Bidder shall ensure that all subcontractors, sub-consultants and suppliers also have no conflict with respect to other work and/or other clients.

The Vendor/Contractor, Subcontractors and Suppliers and any of their respective advisors, partners, directors, officers, employees, agents, and volunteers shall not engage in any activity or provide any services where such activity or the provision of such services creates a conflict of interest (actually or potentially, in the sole opinion of the Owner) with the provision of the Work pursuant to the Contract. The Vendor/Contractor acknowledges and agrees that a conflict of interest, as described in this section includes, but is not limited to, the use of Confidential Information where the Owner has not specifically authorized such use.

The Vendor/Contractor shall disclose to the Owner, in writing, without delay, any actual or potential situation that may be reasonably interpreted as either a conflict of interest or a potential conflict of interest, including the retention of any Subcontractor or Supplier that is directly or indirectly affiliated with or related to the Vendor/Contractor.

The Vendor/Contractor covenants and agrees that it will not hire or retain the services of any employee or previous employee of the Owner where to do so constitutes a breach by such employee or previous employee of the Owner's conflict of interest policy, as it may be amended from time to time, until after completion of the Work/Services under the Contract.

It is of the essence of the Contract that the Owner shall not have direct or indirect liability to any Subcontractor or Supplier, and that the Owner relies on the maintenance of an arm's-length relationship between the Vendor/Contractor and its Subcontractors and Suppliers. Consistent with this fundamental term of the Contract, the Vendor/Contractor will not enter into any agreement or understanding with any Subcontractor or Supplier, 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 Owner, directly or through the Vendor/Contractor, where such claim is, in whole or in part, in respect of a disputed claim by the Subcontractor or Supplier against the Vendor/Contractor, where the payment to the Subcontractor or Supplier by the Vendor/Contractor is agreed to be conditional or contingent on the ability to recover those amounts or a portion thereof from the Owner, failing which the Vendor/Contractor shall be saved harmless from all or a portion of those claims. The Vendor/Contractor acknowledges that any such agreement would undermine the required arm's-length relationship and constitute a conflict of interest. For greater certainty, the Vendor/Contractor shall only be entitled to advance claims against the Owner for amounts pertaining to Subcontractor or Supplier claims where the Vendor/Contractor has actually paid or unconditionally acknowledged liability for those claims or where those claims are the subject of litigation or binding arbitration between the Subcontractor or Supplier and the Vendor/Contractor has been found liable for those claims.

A breach by the Vendor/Contractor, any of the Subcontractors, Suppliers or any of their respective advisors, partners, directors, officers, employees, agents, and volunteers shall entitle the Owner to terminate the Contract, in addition to any other rights and remedies that the Owner has in the Contract, in law, or in equity.”

11. Construction Act Guidelines

For Work that is governed by the provisions of the Construction Act, the Construction Act shall apply where applicable including in respect to release of 10% holdback, 2% deficiency holdback, adjudication, and the provision of security.

12. Criminal Background Checks and Collection of Personal Information

The Board must comply with Ontario Regulation 521/01 (Collection of Personal Information) of the Education Act with respect to criminal background checks and offence declarations.

If required by the Board, the Vendor/Contractor will provide to the Board, or designate, a Criminal Background check for pertinent individuals covering offences under the Criminal Code, the Controlled Drugs and Substances Act, and any other offences which would be revealed by a search of the automated Criminal Records Retrieval System.

An Offence Declaration on a Board-approved form for every employee of the Vendor/Contractor who may come in direct contact with Board staff and/or students on

a regular basis at any Board site prior to the occurrence and on or before September 1 each year thereafter may be required. Updated Offence Declarations may be required annually. The Board will determine in its sole discretion whether this is a requirement.

Termination of contracts may be the result of non-compliance to this requirement.

13. Damage Responsibility of Contractor/Vendor

The Vendor/Contractor, their agents and all workers and persons employed by them or under their control, shall use due care that no person or property is injured and that no rights are infringed in the prosecution of the work, and the Vendor/Contractor shall be solely responsible for all damages by whomsoever claimable in respect of any injury to persons or to lands, buildings, structures, utilities, survey markers, fences, livestock, trees, crops, roads, ways, ditches, drains and in watercourses, whether natural or artificial, or property or whatever description and in respect of any infringement of any right, privilege or easement whatever occasioned in the carrying on of the work or any part thereof, or by any neglect, misfeasance or nonfeasance on the Vendor/Contractor's part or on the part of any of his agents, workers and persons employed by them or under their control shall bear the full cost thereof and shall at his own expense make such temporary provisions as may be necessary to ensure the avoidance of any such damage, injury or infringement.

The Vendor/Contractor shall indemnify and save harmless the Board from and against all claims, demands, loss, costs, damages, actions suits or other proceedings by whomsoever made, brought, or prosecuted in any manner based upon, occasioned by, or attributed to any such damage, injury, or infringement.

Notwithstanding the indemnity provisions contained in this section, where in the opinion of the Board Representative the Vendor/Contractor has failed to rectify any damage, injury or infringement or has failed to adequately compensate any person for any damage, injury or infringement for which the Vendor/Contractor is responsible under the Contract, the Board, following notice in writing to the Vendor/Contractor of his intention so to do, may withhold payment of any monies due to the Vendor/Contractor under this or any other Contract until the Vendor/Contractor has rectified such damage, injury or infringement or has paid adequate compensation for such damage, injury or infringement.

14. Damage Reporting

If a utility structure or device, utility cable/conduit, or utility related infrastructure is damaged, the Vendor/Contractor shall notify the Board representative the same working day of any service disruption or damage and the Vendor/Contractor will immediately notify the utility company to initiate repair. The Vendor/Contractor will additionally make every reasonable effort to advise impacted resident(s) of a service disruption.

It is understood that all damage caused by workers engaged in the work under these specifications will be repaired by the Vendor/Contractor and at the Vendor/Contractor's

sole expense. Damaged turf areas will be levelled and seeded, all horticultural planting damaged beyond repair will be replaced and any damage to structures, utilities, signs, light fixtures, landscape furniture, irrigation systems etc. will be repaired or replaced. Repair work will be carried out by skilled workers acceptable to the Board representative. All repairs and replacements will be approved by a Board representative prior to final payment.

15. Debriefing Requests

For procurements valued at \$100,000 or more, and in accordance with the Broader Public Sector Procurement Directive, unsuccessful Bidders are entitled to a debriefing to receive feedback with respect to their Bid submission. To obtain a debriefing, Bidders shall contact the Single Point of Contact listed in this Bid Solicitation Document in writing with their request within sixty (60) calendar days of the award notification.

16. Default

If the Vendor/Contractor fails to properly, promptly, and fully carry out the Work required by these documents, the Board reserves the right to notify the Vendor/Contractor to discontinue all Work under this Contract, to advertise for new Bids or carry out the Work in any way as the Board may, in their sole discretion, deem best.

The Vendor/Contractor further agrees to indemnify and save harmless the Indemnified Parties from all loss, damage, liability, cost, charge, or expense whatsoever which it, they or any of them may suffer, incur or be put to by reason of such default or failure.

17. Delay Claims

The Vendor/Contractor shall be responsible for all deliverables including lead times. The bidder shall include in their bid price any costs associated with an extended schedule beyond the stated substantial completion date due to delayed deliveries of items. Costing is to be inclusive of any afterhours work required due to the school being occupied by staff and students during the school year until completion.

The board will not accept or consider any "delay claim" requests for delayed deliverables outlined in the tender documents.

18. Designated Substances

The Occupational Health and Safety Act of Ontario (OHSA) allows for certain toxic substances to be especially designated. The OHSA defines a designated substance as "a biological, chemical, or physical agent or combination thereof prescribed as a designated substance to which the exposure of a worker is prohibited, regulated, restricted, limited, or controlled". Ontario Regulation 490/09 - Designated Substances (O.Reg. 490/09), made under the Occupational Health and Safety Act outlines required steps to control exposure of workers to designated substances. Under O. Reg. 490/09 there are eleven (11) designated substances: acrylonitrile, arsenic, asbestos, benzene, coke oven emissions, ethylene oxide, isocyanates, lead, mercury, silica and vinyl chloride. This regulation applies to every employer and worker at a workplace where the designated substances

are present, produced, processed, used, handled or stored and at which a worker is likely to be exposed to the designated substance.

I. Asbestos

Asbestos-containing material (ACMs) were identified during the completion of the Asbestos Audit Update Report (AAU), prepared by MTE Consultants Inc. Each facility was surveyed, and if applicable, an AAU Report is available, refer to attached, Appendix 01 35 34A. If these materials, including those deemed or suspected, will be disturbed, or will likely be disturbed, during building maintenance, renovations, construction, or demolition activities, they must be handled and disposed of in accordance with the procedures prescribed by O. Reg. 278/05.

Should the Vendor/Contractor encounter asbestos, not noted in the above AAU Report, which would be disturbed during the course of the Work they should stop the work in that immediate area and report the same to the Board Contact.

All asbestos work must be conducted by Vendor/Contractors approved by the Board, who are trained in the type of asbestos operations required and should be overseen by a qualified third-party Health, Safety and Environmental professional. To conduct Type 3 asbestos operations, Vendor/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 as prescribed by Section 20 of O. Reg. 278/05.

Unless otherwise specifically covered by Cash Allowance or Contingency Allowance for known asbestos materials, include in this contract for the removal under abatement, in compliance with O. Reg. 278/05, of all known asbestos containing materials, as identified in the audit, within 0.6 meter (2'-0") of all new services, materials, and equipment, and/or as required to complete the work. No claims for extra cost will be accepted for areas known to contain asbestos containing materials.

II. Lead

Lead was historically used in mortar pigments, ceramic glazing; plumbing solder, electrical equipment and electronics solder, in pipe gaskets as packing in cast iron bell and spigot joints of sanitary drains, flexible plumbing connections, flashing panels, acoustical dampeners, phone cable casing and some architectural applications. The assessment of lead for this assignment was limited to paint on interior and exterior surfaces which may be disturbed during the Work.

Preliminary paint, coatings or materials were collected within the work area to determine if lead-containing paints, including lead-based paints, are present. The analytical results, if applicable, including the location marked on the floor plans are available, refer to attached, Appendix 01 35 34B.

Should the Vendor/Contractor encounter paint and coatings, not sampled, that would be disturbed during the course of the Work, they should stop the work in that immediate area and report the same to the Board Contact.

Unless otherwise specifically covered by Cash Allowance or Contingency Allowance for known lead-containing paint and coatings, include in this contract for the removal or disturbance of lead-containing materials, must be completed in compliance with “Lead on Construction Projects” guideline (April 2011). No claims for extra cost will be accepted for lead-containing paint or coatings in identified areas.

The classification of typical lead-containing construction tasks is based on presumed airborne concentrations obtained from the U.S. Occupational Safety and Health Administration (OSHA), the Ontario Ministry of Labour, and published research studies. The classification of Type 1, Type 2, or Type 3 operations are grouped based on the following concentrations of airborne lead

Vendor/Contractor shall inform all workers of the presence of paint finishes that are lead containing. Disturbance of lead-containing materials, paints or surface coatings shall be conducted in accordance with the procedures outlined in the Environmental Abatement Council of Canada (EACC) “Lead Guideline” (October 2014) and/or the Ministry of Labour (MOL) “Lead on Construction Projects” guideline (April 2011). The extent of procedures required depends on the type of work to be conducted. Waste to be handled and disposed of in accordance with O.Reg. 347.

III. Mercury

Mercury is typically used in building service applications such as thermometers, barometers, thermostats, gauges, electrical switches, and lighting products including fluorescent light bulbs and a variety of High Intensity Discharge (HID) lamps as mercury vapour, metal halide and high pressure sodium lamps. Lamps and other devices that require demolition are to be handled with care and kept intact to avoid potential exposure. Any mercury-containing lamps or other equipment that are demolished are to be recycled. Waste to be handled and disposed of in accordance with O.Reg. 347.

IV. Silica

Silica is present in rock, stone, soil, and sand. Masonry products such as concrete block, brick, and mortar, as well as concrete and associated products contain silica. Due to its ubiquitous nature, silica was historically used in a wide variety of building materials and is still used today in new construction.

All work involving the demolition silica-containing materials shall follow the procedures outlined in the MOL “Silica on Construction Projects” guideline. Type 1

operations may be necessary based on the type of work conducted and the Vendor/Contractor shall implement dust suppression methods and protect workers.

V. Other Designated Substance

In addition to asbestos and/or lead, silica, and mercury are present in all WRDSB facilities. New construction, renovation or alterations require compliance by the Vendor/Contractor with the applicable legislation. Other designated substances (i.e., acrylonitrile, arsenic, benzene, coke oven emissions, isocyanates, ethyl oxide, and vinyl chloride) are not encountered in WRDSB facilities as significant constituents or in a form that would represent an exposure concern. responsible for obtaining its own independent financial, legal, accounting, and technical advice with respect to any information included in the Bid Solicitation Document or in any data, materials, or documents provided or required by the Board.

19. Dispute Resolution

All disputes arising out of or in connection with this Contract, or in respect of any legal relationship associated with or derived from this Contract, other than with respect to the Board's right to terminate this Contract, shall first be mediated pursuant to the [National Mediation Rules of the ADR Institute of Canada, Inc.](#) Despite this agreement to mediate, the Vendor/Contractor or the Board may apply to a court of competent jurisdiction or other competent authority for interim measures of protection at any time. All disputes remaining unsettled after mediation shall be arbitrated and finally resolved before a single arbitrator pursuant to the National Arbitration Rules of the ADR Institute of Canada, Inc. The place of mediation and arbitration shall be Toronto, Ontario, Canada. The language of the mediation shall be English.

20. Electrical Safety Requirements

All electrical equipment and components must bear a C.S.A. or Electrical Safety Association (E.S.A.) label.

21. Emergency and Maintenance

The care of the Works until completed, delivered to and accepted by the Board rests solely with the Vendor/Contractor who shall assume all risk of damage to the work.

For the purpose of emergency and maintenance measures, the name, address, and telephone number of a responsible official of the contracting firm shall be given to the Board's contact person in charge of the project, if requested. This official shall always be available and have the necessary authority to mobilize workers and machinery and to take any action as directed by the Board in the event emergency or maintenance measures are required, regardless of the fact that the emergency or requirement of maintenance may have been caused by the Vendor/Contractor's negligence, Act of God, or any cause whatsoever.

Should the Vendor/Contractor be unable to carry out the required immediate remedial measures, the Board may carry out the necessary repairs and the costs for this work shall be deducted from payments due to the Vendor/Contractor.

22. Equivalent or Brand Name

Any reference to a brand name or a particular manufacturer shall be understood to have been made solely for the purpose of establishing and describing required performance and quality levels of the product to be supplied, unless specified otherwise.

No reference to the brand name of a particular manufacturer shall be construed to restrict Bidders to that manufacturer. Bidders are invited to Bid equivalent and comparable equipment or items of any manufacturer, pending approval from the Board in the form of an Addendum. It is the Bidder's responsibility to demonstrate that the item meets the specifications.

Bidders shall request through the Bidding System by clicking on the "Submit a Question" button found within the bid details page of that Procurement that a proposed product be considered an approved equivalent prior to the Deadline for Questions in the Anticipated Project Schedule.

The request must include enough detail to determine equivalency by comparing the Board's specifications to the alternate product. It will not be the Board's responsibility to perform this comparison.

The Board/ Consultant may, depending on the nature of the product request site visits within a reasonable distance (preferable within 100 km of the Board) showing product and installation based on a certain age, minimum 18 months in use, room use, room size, etc. based on same or similar purpose as described in this Procurement.

The Board/Consultant will endeavor to complete a review and make a decision prior to the Closing Date, and, if required, the Board reserves the right to extend the Closing Date to complete its review. However, in the event additional time is required beyond a suitable extension to the Closing Date, the request will be pending until the product is thoroughly vetted, therefore, it may not be approved for this particular Procurement.

If the Board is willing to consider the product with its differences, it will be communicated in the form of an Addendum prior to the Closing Date.

The cost of any testing requirements to establish acceptable equivalent or comparable products will be borne by the Bidder, unless otherwise stated by the Board.

23. Evidence of Quality

It is the Bidder's responsibility to prove their product/service quality meets the Board's requirements and Bidders may be required to submit evidence in a form acceptable to the Board. Substitution of materials equipment or methods different from that outlined in the specifications / terms of reference will not be accepted unless provided for within the Bid Solicitation document or without the written approval of the Board.

24. Force Majeure

If either party is delayed in the performance of their obligations under this Contract by Force Majeure, then the Contract Time shall be extended for such reasonable time as the Owner and the Vendor/Contractor shall agree. The extension of time shall not be less than the time lost as a result of the event causing the delay, unless the 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 Contract Time attributable to the Force Majeure event, the Owner and the Vendor/Contractor shall execute a Change Order indicating the length of the extension to the Contract Time and confirming that there are no costs payable by the either party for the extension of Contract Time. However, if at the time an event of Force Majeure arises a party is in default of its obligations under the Contract and has received a notice of default 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 Force Majeure.”

Any cause, unknown at the effective date of the Contract 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 Contract and the event of Force Majeure did not arise from a party’s default and could not be avoided or mitigated by the exercise of reasonable effort or foresight. Force Majeure includes Labour Disputes; fire; unusual delay by common carriers or unavoidable casualties; delays in obtaining third-party licenses, permits, agreements, or approvals (excluding approvals of any Subcontractors or Suppliers of any tier); civil disturbance; emergency acts, orders, legislation, regulations or directives or revoking of funding from 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 Place of the Work; acts of God; or declared epidemic or pandemic outbreak or other public health emergency (e.g. SARS, COVID-19)

If in the reasonable opinion of either party to this Contract that performance of the Contract is made impossible by force majeure, then either party shall notify the other in writing and the Board shall either terminate the Contract forthwith without any future payments being made or authorize the Bidder to continue performance of the Contract with such adjustments as may be required by the existence of the force majeure and agreed upon by both parties.

25. Hot Work Procedure

Take all precautions to Work safely and to provide the necessary protection to persons and property from Hot Work. This includes, but is not limited to Brazing, Cutting, Grinding, Soldering, Thawing Pipe, Torch Applied Roofing and Welding. With all such activity these steps are to be followed:

- i. Whenever possible, complete Hot Work in a welding shop or out of doors at the school.
- ii. Flammable liquids, dust lint and oily deposits to be removed from within 50-ft (15m) of Work. Remove other combustibles where possible. Otherwise protect with fire-resistive tarpaulins or metal shields.
- iii. Explosive atmosphere in area eliminated. Floors swept clean. Combustible floors wet down, covered with damp sand or fire-resistive tarpaulins.
- iv. All wall and floor openings covered. Fire-resistive tarpaulins suspended beneath Work.
- v. For on-site Work (indoor and out of doors), advise the Head Custodian, Principal, Consultant (if assigned) and Project Coordinator/Lead prior to Work being performed, and of related dangers.
- vi. Where the Fire Alarm system is required to be set to stand-by to discourage false alarms from smoke detectors provide a firewatch throughout the building or structure being worked on. NEVER put the fire alarm system in stand-by mode when the building is occupied by staff or students.
- vii. In the event of a fire as a result of the Hot Work, notify the fire department immediately. Report incident to the head custodian, the Consultant, if assigned, and Project Coordinator immediately, whether extinguished or not. Provide a fire incident report to the Board.
- viii. Barriers must be set up to protect staff and students (i.e. pylons, shields, and caution tape) from exposure to arc flash and smoke migration.
- ix. Have all necessary doors, windows and/or drapes closed. Confer with the Head Custodian to shut down all fan systems in the area to reduce or eliminate smoke distribution.
- x. Provide and keep fire extinguishers handy and in good Working condition. Temporarily cover all smoke detectors in the area during time of Work.
- xi. Provide a fire watch/spot check for several hours after Work is completed. Uncover smoke detectors.
- xii. On new construction, the requirements of the Hot Wok permit may be waived, until such time as either Substantial Completion or Occupancy is granted, whichever comes first.
- xiii. On additions to existing buildings, the requirements for Hot Work permits shall remain in place.

25.1 Hot Work Permit

- i. Each permit is valid for seven (7) days only and must be renewed prior to its expiration date

- ii. The contractor must obtain Hot Work Permits from the School Board's representative prior to the start of work.
- iii. The contractor must complete the form as required and must keep the form on site.
- iv. Return each completed form to the School Board's representative on the date of expiration.
- v. The most current version of the Permit and its requirements shall be used for the purposes of the Work.

26. Incurred Costs

The Board will not be liable, nor reimburse any Bidder for costs incurred in the preparation of the Bid, or any other services that may be requested as part of the procurement process.

27. Indemnification

The Bidder will indemnify and save harmless and defend the Board, and their respective elected officials, officers, employees, agents and their respective successors and assigns, from and against all actions claims and demands whatsoever which may be brought against or made upon any of the Indemnified Parties and against all losses, liability, judgments, claims, costs, demands or expenses which the Indemnified Parties may sustain, suffer, or be put to resulting from or arising out of the Bidder's failure to exercise reasonable care, skill or diligence in the performance or rendering of any Work or service required hereunder to be performed or rendered by the Bidder, its agents, servants, employees or subcontractors, or any of them as well as for the infringement of or use of any intellectual property rights including any copyright or patent arising out of the reproduction or use in any manner of any plans, designs, drawings, specifications, information, negatives, data, material, sketches, notes, documents, memoranda, or computer software furnished by the Bidder in the performance of this Contract.

28. Insurance Provisions

If selected, it is the responsibility of the Vendor/Contractor and its Insurance Broker to review all potential operations and exposures to determine if the coverage and limits noted below are sufficient to address all insurance related exposures presented by the specification of the Project, Work, or Supply. The Vendor/Contractor shall insure its undertaking, business, and equipment under the following coverage to protect and indemnify and save harmless the Board:

- i. **General Liability Insurance:** The Vendor/Contractor shall maintain liability insurance acceptable to the Board throughout the term of this Agreement from the date of commencement of work until one (1) year from the date of substantial performance of work. Liability coverage shall be provided for completed operations hazards from the date of substantial performance of the work, as set out in the certificate of

substantial performance of work, on an ongoing basis for a period of 6 years following substantial performance of work. Coverage shall consist of a comprehensive policy of public liability and property damage insurance, with all applicable coverage extensions/ endorsements, in an amount of not less than \$10,000,000 per occurrence. Such insurance shall name the **Waterloo Region District School Board** and any other person or party identified in the contract documents, as an **additional insured** with a cross liability endorsement and severability of interests' provision. The policy SIR/deductible shall not exceed \$100,000 per claim and if the policy has an aggregate limit, the amount of the aggregate shall be double the required per occurrence limit. A combination of primary coverage plus umbrella or excess liability insurance may be used.

- ii. **Owned and Non-Owned Automobile Liability Insurance:** The Vendor/Contractor shall maintain liability insurance on all Owned, Non-Owned and Leased Automobiles used in the performance of this work to a limit of \$2,000,000 per occurrence throughout the term of this Agreement from the date of commencement of work and until one (1) year after the date of substantial performance of work.
- iii. **Broad Form Contractor's Equipment Insurance:** The General Contractor shall provide and maintain during the term of the Agreement, coverage for construction machinery and equipment used by the Contractor for the performance of the work. Such insurance shall be in a form acceptable to the Board and shall not allow subrogation claims by the Insurer against the Board.
- iv. **If applicable**, the General Contractor shall provide and maintain during the term of the Agreement an **All Risk Installation Floater Insurance** policy covering the installation of any machinery and equipment associated with the construction project. Coverage shall be in an amount equal to the value of the machinery and/or equipment and shall include coverage while it is in transit to, while stored at a temporary location, and awaiting installation at the work site.
- v. **If applicable**, the General Contractor shall **ensure** its professional consultants, architects, landscape architects, planners, and engineers providing a professional service in connection with the contract, maintain until three (3) years after the Agreement, **Professional Liability Insurance** to a limit not less than \$1,000,000 per claim providing coverage for acts, errors and omissions arising from their professional services performed under this Agreement. The policy SIR/deductible shall not exceed \$100,000 per claim and if the policy has an aggregate limit, the amount of the aggregate shall be double the required per claim limit. Certificates evidencing such coverage shall be supplied to the Board prior to the completion of the project and in accordance with the provisions stated above.

- vi. **If applicable, (i.e., for projects with environmental liability concerns)** the General Contractor shall take out and keep in force **Contractor's Pollution Liability (CPL)** coverage to ensure that its work does not exacerbate any pre-existing environmental condition during construction. Coverage shall be in an amount of not less than \$2,000,000 per claim or per occurrence, or such greater amount as the Board may from time to time require, naming the Board as an additional insured, whose coverage shall be maintained in force for 1 year following the termination of the Contract. The policy SIR/deductible shall not exceed \$100,000 per claim and if the policy has an aggregate limit, the amount of the aggregate shall be double the required per occurrence limit.

- vii. **Provisions:** Prior to the commencement of work, the General Contractor shall forward a Certificate of Insurance evidencing this insurance with the executed Agreement. The Certificate shall state that coverage will not be suspended, voided, canceled, reduced in coverage or in limits except after thirty (30) days (ten (10) days if cancellation is due to non-payment of premium) prior written notice by certified mail to the Board.

It is also understood and agreed that in the event of a claim any deductible or self-insured retention under these policies of insurance shall be the sole responsibility of the General Contractor and that this coverage shall preclude subrogation claims against the Board and any other person insured under the policy and be primary insurance in response to claims. Any insurance or self-insurance maintained by the Board and any other person insured under the policy shall be considered excess of the Contractor's insurance and shall not contribute with it. The minimum amount of insurance required herein shall not modify, waive or otherwise alter the Contractor's obligation to fully indemnify the Board under this Agreement.

The Board reserves the right to modify the insurance requirements as deemed suitable.

viii. **Third Party Claims Process:**

- a. The Board's claims process for Third Party claims is to refer the claimant directly to the Vendor/Contractor and to leave the resolution of the claim with the Vendor/Contractor. This applies regardless of whether or not it is an insured loss.

- b. As the Board has a responsibility to the taxpayers, we must ensure that claimants are dealt with in a fair and efficient manner. Claims reported to the Vendor/Contractor, either directly by a third party or through the Board shall be promptly investigated by the Vendor/Contractor. The Vendor/Contractor shall contact the third party claimant within 48 hours of receipt of notice of a claim. The Vendor/Contractor shall initiate an

investigation of the claim immediately upon notice, and advise the third party claimant in writing, with a copy to the Board, of its position regarding the claim within 21 calendar days of the notice. The Vendor/Contractor shall include in its response the reasons for its position.

- c. Should this position not resolve the claim and be accepted by the third party claimant, the Vendor/Contractor shall immediately report the claim to its Insurer for further review. (Insurer for this purpose is defined as either the Claims Department of the Vendor/Contractor's Insurance Company or the Claims Administrator at the Vendor/Contractor's Insurance Broker.) The Vendor/Contractor's Insurer upon receipt of this claim shall advise the third party claimant by letter, with a copy to the Board, that it is now investigating the claim. When a final position on the claim has been determined, the Vendor/Contractor's Insurer shall advise the third party claimant by letter, with a copy to the Board. Failure to follow this procedure shall permit the Board to investigate and resolve any such claims.
- d. Nothing herein shall limit the right of the Board to investigate and resolve any such claims notwithstanding the response of the Vendor/Contractor and/or its Insurer and to seek indemnification from the Vendor/Contractor or to exercise any other rights under the Contract.
- e. The Board may, without breaching this contract, retain from the funds owing to the Vendor/Contractor an amount that, as between the Board and the Vendor/Contractor, is equal to the balance in the Board's favour of all outstanding debts, claims or damages, whether or not related to this contract.

29. Invoice Requirements, Proper Invoice and Payment Terms

Except for Credit Card payments, all invoices shall be sent to finance-ap@wrdsb.ca for payment at the completion of the Work or after receipt of goods, unless otherwise stated.

- 29.1** In advance of invoicing, upon request, contracted Vendors will provide:
 - i. necessary company information to set up a WRDSB account and
 - ii. banking information if they wish to receive payment by Electronic Funds Transfer (EFT).
- 29.2** Requests to change company information, such as a name change due to a merger or acquisition, must be submitted in writing accompanied with a legal document/letter signed by a lawyer on the law firm's letterhead.
- 29.3** Invoices, not subject to the Construction Act, must contain the following information, where applicable, in order to be deemed complete:
 - i. Purchase Order Number
 - ii. Work Order Number
 - iii. Invoice Date

- iv. Unique Invoice Number
- v. Vendor name and address
- vi. Contract reference (RFT #, RFQ# etc.)
- vii. A description, including quantity where appropriate, month of service for ongoing contracts, and location of work
- viii. The amount payable for the services or materials that were supplied, including
 - unit price (where applicable)
- ix. HST amount shown as a separate line item
- x. Payment Terms
- xi. Board Project Lead/ Contact and
- xii. Confirmation of completion of order and all Work as described in this Bid Solicitation Document.

29.4 Construction Act – Proper Invoice

The Board will pay such invoice within twenty-eight (28) calendar days of the Board's receipt of such proper invoice if the work has been performed to the satisfaction of the Board For Work that is governed by the provisions of the Construction Act and the Regulations thereto, the successful Bidder shall submit its invoices in the form of a Proper Invoice. For the purposes of this section, a "Proper Invoice" shall include the following:

- i. the Vendor/Contractor's name, address, telephone number and mailing address.
- ii. the date of the Proper Invoice and the period during which the services or materials for which payment is being applied for were supplied.
- iii. information identifying the authority, whether in the contract or otherwise, under which the services or materials were supplied.
- iv. a description, including quantity where appropriate, of the services or materials that were supplied during the payment period.
- v. the amount payable for the services or materials that were supplied during the payment period, with a clear identification of the portions of the amount that are holdbacks, and HST.
- vi. the name, title, telephone number and mailing address of the person to whom payment is to be sent.
- vii. the payment terms as specified by the Board in the Contract.
- viii. the invoice number and if applicable, the revision number.
- ix. the Vendor/Contractor's HST number.
- x. invoices and time sheets from all subtrades whose work is included in the Proper Invoice, if required in the Contract.
- xi. backup documentation to support any cash allowances and extra work claimed in the Proper Invoice.
- xii. a schedule of values indicating:

- a. for lump sum contracts, the percentage of work completed per division with each division further subdivided to show the percentage of work completed for each subtrade,
 - b. for unit price contracts, the tender quantity, unit of measure, previous quantity, current quantity, to-date quantity,
 - c. an updated list of change orders, showing the percentage of work completed under each change order, and
 - d. an updated cash allowance list, showing the percentage of work completed in respect of each cash allowance, if required by the Contract.
- xiii. a Statutory Declaration where required by the Contract attesting to the truth of the statements made therein.

29.5 Payment Terms

The payment terms shall be net twenty-eight days (28) days after receipt of proper invoice where the Construction Act is applicable, unless otherwise agreed by the Board in writing. All other payment terms will reflect Net 30. An early payment discount, if offered, may be considered on a mutual agreement basis. Payment may be delayed if the invoice is incorrect or the goods, equipment and/or services are not acceptable to the Board. The Board will not pay any interest, penalty, or late fee for delayed payments. The Board preferred payment method is Credit Card or EFT, however alternate payment methods may be approved. Vendors are required to invoice promptly, without delay.

30. Licenses and Permits

The successful bidder will be responsible for applications and fees associated with any and all licenses and permits required by any and all governing bodies. The successful bidder will attach a copy of all permits, and any other required documentation to the applicable assigned work order for Board records.

31. Locates, if applicable

All required utility locates must be obtained before any on-site work commences, be available for Vendor/Contractor operator/employee review, and are the sole responsibility of the successful bidder. Any damage to any utility installation arising from work performed by the Vendor/Contractor or their employees shall be the Vendor/Contractor's responsibility.

The successful Bidder will obtain all utility locates in advance of work and all cost(s) associated with obtaining the utility locates will be the Vendor/Contractor's responsibility.

The successful Bidder shall possess the ability to supply and or share with the Board Representative utility locates for the sole purpose of Quality Control inspections. This is to be done at no additional cost to the Board.

32. Materials - Specifications

Only new materials in perfect condition will be accepted. Demonstrators, seconds or defective materials are unacceptable. Any materials found not to be in a new condition or as specified will be returned to the successful Bidder at the successful Bidder's expense.

33. Material Safety Data Sheets (M.S.D.S.)

Where applicable, a materials safety data sheet (M.S.D.S.), must accompany all purchased goods, that fall under the requirements of the Occupational Health and Safety Act. The Board will not accept any additional charges or surcharges related to the supplying of M.S.D.S.

34. Mathematical Errors (Unit Prices Prevail)

Should there be any error in extensions, additions or computations, the Board shall be entitled to correct such errors based upon the unit prices supplied, and the corrected total shall be considered as representing the intention of the Bidder and shall be used as the basis for comparison of bid submissions.

35. No Branding

The Vendor/Contractor shall not place any sign at the site, public meetings, any public or private property or along curbside prior, during or after the Work without prior written permission of the Board.

36. No Collusion

Bidders including any of their agents are prohibited from engaging in any comparison of figures or arrangement with any other individual, corporation or person submitting a Bid for the same Work and shall be fair in all respects and shall be without collusion or fraud.

37. No Lobbying

Any attempt by the Bidder or its agents to contact any of the following persons, directly or indirectly, with respect to this procurement may lead to disqualification:

- i. any elected or appointed officer.
- ii. any staff of the Board except the Single Point of Contact as identified in the Bid Solicitation Document; or
- iii. any other person connected in any way with the procurement.

38. No Smoking and Scent-Free Environment

The Province of Ontario has legislated under the Smoke Free Ontario Act that smoking is not permitted on any Board owned properties. Furthermore, most Board properties are "scent free". Smoking will not be permitted on-site. Offenders will be asked to leave the site, and infractions could result in corrective action and or fine.

39. Non-Assignment

No assignment by the Vendor/Contractor shall relieve the Vendor/Contractor of any responsibility for the full performance of all its' obligations under this contract.

The Vendor/Contractor shall not change its corporate name without the prior written approval of the Board.

40. Non-Disclosure Agreement (NDA)

The Board requires all service providers to sign off on a non-disclosure agreement and for the service provider to complete the Software Privacy and Security Standards Document (if necessary) in accordance with Board procedure AP4790. Prior to any sharing of Board personal, sensitive, or confidential information, the Vendor will be subject to further privacy and security reviews as required. This agreement will be renewed on an annual basis.

41. Ownership of Work

For the purposes of this paragraph:

“ **Deliverables** ” means all material prepared by the Bidder forming the Work under this Contract including, without limitation, all electronic media, reports, documents and instruments of service.

“ **Intellectual Property Rights** ” means any and all rights provided under: (a) patent law; (b) copyright law; (c) trade-mark law; (d) industrial design law; (e) any other statutory provision or common law principle applicable to this Contract, including trade secret law; and (f) any and all registrations and licenses in relation to the foregoing; and

“ **Personnel** ” means employees, representatives, agents and subcontractors.

The Bidder and the Board acknowledge and agree that the development of the Deliverables and the provision of the Work may result in the creation or development of new intellectual property and may contain or utilize the existing intellectual property of the Bidder or of third parties. Accordingly, the Bidder and the Board agree as follows.

- i. Except as set out in paragraph (b) below, the Bidder hereby assigns and agrees to assign to the Board all right, title and interest, including all Intellectual Property Rights, in and to each Deliverable from the moment of creation, and will cause its Personnel to assign the same. The Bidder will cause its Personnel to waive all moral rights they may have in each Deliverable.
- ii. To the extent that a Deliverable contains or utilizes the intellectual property of the Bidder or a third party (“Retained Materials”), and the Bidder expressly identifies such Retained Materials, the Bidder and the applicable third party will, subject to the following sentence, retain all their respective right, title and interest, including all Intellectual Property Rights, which each may have in such Retained Materials. To the extent that a Deliverable contains or utilizes Retained Materials, the Bidder hereby grants to each of the Board a royalty-free, irrevocable, perpetual, world-wide, non-exclusive license to make, use, sell, modify, prepare derivative works, disclose, publish, sublicense, copy and communicate by electronic means such Retained Materials.
- iii. The Vendor/Contractor agrees to always cooperate fully, and will cause its

Personnel to cooperate fully at all times, with respect to signing such documents and doing such acts and other things reasonably requested by the Board to confirm the transfer of ownership rights in the Deliverables.

42. Patent, Copyright and Other Proprietary Rights

The Bidder (by responding) agrees that the Bid on acceptance by the Designated Representative, become the property of the Board. The copyright for respective purchased concepts and/or materials will become the property of the Board unless otherwise mutually agreed upon by the Bidder and the Board.

All Bids, other documents as well as correspondence are subject to the provisions of the Municipal Freedom of Information and Protection of Privacy Act (MFIPPA).

43. Performance

- i. Where the Vendor/Contractor is in default in carrying out any of its obligations under the contract, the Board may issue a verbal warning outlining the deficiency in supply or other aspects of performance and requiring the Vendor/Contractor to correct those deficiencies within such period of time as stated.
- ii. If the deficiency is not corrected within the time specified, or there is a further instance of deficient performance, the Board may issue a written notice to the Vendor/Contractor, identifying the deficiency in performance and setting a final date or time period for its correction.
- iii. If corrective steps are not taken by the final date or within that time, the Board may terminate the Contract and take corrective action.
- iv. Termination of any Contract can be immediate depending on the severity of the default.
- v. The Vendor/Contractor shall have no right to perform the services contemplated under this agreement beyond the time when such services become unsatisfactory to the Board; and in the event that Vendor/Contractor shall be discharged before all the services contemplated hereunder have been completed, or the services are for any reason terminated, stopped or discontinued because of the inability of the Vendor/Contractor to serve under this agreement they shall be paid only for that portion of the Work which shall have been satisfactorily completed at the time of termination.
- vi. Where deemed appropriate, a performance evaluation shall be completed by the Board. The evaluation report shall be reviewed with Procurement Services, and a copy of the completed evaluation forwarded to the Vendor for their records. Dependent on the evaluation scoring, the Board may request a corrective action plan

and/or project size/value may be affected on future bid opportunities for your company.

44. Permits and Licenses

Unless stated otherwise, the Vendor/Contractor shall apply for all required permits and licenses, supply all necessary notices required for the Work and pay all required fees. These costs shall be included in the Total Price. A copy of all permits, and any other required documentation shall be provided the Board upon request.

45. Proceedings Against the Board

The Bidder represents and warrants that the Bidder is not a party to any legal suits, actions, litigation proceedings, arbitrations, alternative dispute resolutions, investigations, or claims (Hereinafter collectively referred to as "Claims") by or against or otherwise involving the Board and the Bidder. The Board may reject any Bid in the event of potential, current, pending, or threatened litigation, arbitration, alternative dispute resolution or disputes involving the Board and the Bidder.

46. Protection of Board Assets

The successful Bidder (the contractor / subcontractor) shall be informed of and protect all Board assets including existing structures and vehicles, to the satisfaction of the Board. Any damage shall be reported to the Board and subsequently repaired and/or replaced by the Vendor/Contractor, at their expense, to the satisfaction of the Board. The Vendor/Contractor shall not cause any inconvenience to Board operations, staff, public or users of the Board facilities, within reason. Communication between the successful Vendor/Contractor and the school (or Board representative if school contact is not available) must be timely and effective to ensure all stakeholders are considered / aware of work to be completed.

47. Public Health Safety Protocol

Best practices include but not limited to wearing a medical grade mask and maintaining physical distancing (2m/6.5ft).

Recommended practices are subject to change at any time For information and updates, refer to the following resources and website: [Waterloo Region District School Board](#) and [Regional of Waterloo Public Health Services](#)

48. Records, Inspection, Audits

The Board will have the right, upon reasonable notice, to full access to the accounts and records of the Vendor/Contractor in respect of the goods, services and equipment provided by it under the Contract, for the purposes of inspection and/or audit. The Vendor/Contractor shall make and retain such records during the term of the Contract and for a minimum of seven (7) years following its termination, cancellation, or expiry.

49. Reserved Rights of the Board

The Board reserve the right, in their respective sole and unfettered discretion, to:

- i. Reject any Bid received from a Bidder which is party to any potential, current, past or existing suits, actions, and litigation proceedings, arbitrations, alternative dispute resolutions, investigations, Bidder performance evaluations that are below expectations, or claims by or against or otherwise involving either of the Board and the Bidder.
- ii. waive formalities and accept Bids which substantially comply with the requirements of this tender.
- iii. accept any Bid in whole or in part.
- iv. accept, reject, or cancel any or all Supplementary pricing.
- v. discuss with any Bidders different or additional terms to those contemplated in this Bid Solicitation Document or in any Bid submission.
- vi. make public the names of any or all Bidders.
- vii. accept or reject equivalent or alternative brand names.
- viii. check references other than those provided by any Bidder.
- ix. reject any, or any part of, any or all Bids, or cancel the bidding process at any stage and/or issue a new Bid call for the same or similar deliverables.
- x. disqualify any Bidder:
 - a. whose Bid contains misrepresentations or any other, inaccurate, or misleading information, or any qualifications within its Bid,
 - b. who has engaged in conduct prohibited by the Bid Solicitation Document,
 - c. with inadequate credentials or due to unsatisfactory past performance,
- xi. reject Bid(s) from Bidder who has engaged in lobbying or has contravened any of the terms of the Bid Solicitation Document.
- xii. reject a Bid based on:
 - a. information provided by references or credit check or other due diligence efforts,
 - b. the information provided by a Bidder pursuant to the Board exercising its clarification rights under the procurement process, or
 - c. other relevant information that arises during the procurement process.
- xiii. choose to reject a Bid if only a single Bid is received and cancel the bidding process or enter into direct negotiations with the sole Bidder.
- xiv. accept a Bid other than the lowest or highest scoring and/or to not accept any Bid for any reason whatsoever.
- xv. award the contract as split-order, lump sum or individual-item basis, or such combination as shall best serve the interests of the Board
- xvi. negotiate in circumstances permitted for in the Bid document or by relevant policies, or directives, and include additional terms and conditions during the process of negotiations.
- xvii. no longer consider a Bidder if a satisfactory outcome is not reached as part of

- negotiation, as determined by the Board in their sole discretion and move to the next highest ranked Bid in such event.
- xviii. select a Bidder other than the Bidder whose Bid reflects the lowest cost to the Board and/or award the Contract to any Bidder.
 - xix. award any business/Work described in this Bid Solicitation to more than one (1) Bidder.
 - xx. not award the Contract if the costs of completing the Work exceed budget funding; or
 - xxi. do not respond to all requirements or do not represent fair market value or where necessary internal approvals are not obtained.

These reserved rights are in addition to any other expressed rights or any other rights which may be implied in the circumstances. The Board shall not be liable for any expenses, costs or losses suffered by any Bidder or any third party resulting from the Board exercising any of its express or implied rights under this bidding process.

50. Responsibilities of the Vendor

Acceptance of a purchase order issued by the Board and/or a signed agreement shall constitute a contract (the "Contract") between the Board and the Vendor, which shall bind the Vendor on their part to furnish and deliver the goods, equipment and services at the prices given and in accordance with the conditions of the Bid solicitation document.

The Vendor shall:

- i. perform the Contract in accordance with the specifications, terms and conditions under which it is awarded.
- ii. act in a professional manner at all times when dealing with Board staff, with the public, and while working on site.
- iii. not, except with the consent of the Board in writing, release information relating to any subsequent order for advertising, promotional or technical purposes or otherwise give it publicly in any fashion, nor shall the name of either of the Board be used for, or in connection with, any advertising or promotional purpose of the Vendor.
- iv. treat information gained while working with the Board confidentially and not use it for any other project and return it to the Board if requested.
- v. submit to Finance – Accounts Payable, an invoice for payment at the completion of the Work, unless otherwise stated. All applicable taxes including HST are to be itemized separately on invoices. Include the purchase order number on each invoice; and
- vi. provide necessary information if they wish to receive payment by Electronic Funds Transfer (EFT).

51. Site and Work Examination

- i. Bidders will accept the site conditions, and the requirements of the Work, as is. No modifications to the Bid will be accepted after the Closing Time.
- ii. No claim for extras will be allowed for Work or difficulties encountered due to conditions of the site which were visible, knowable, or reasonably inferable, prior to the time of submission of Bid. Bidders shall accept sole responsibility for any error or neglect on their part in this regard.
- iii. Before submitting a Bid, each Bidder shall:
 - a. carefully examine this entire Bid Solicitation Document to determine the extent of the Work, and various provisions including the maps, drawings, reports and specifications.
 - b. immediately report all discrepancies between the various documents and site conditions.
 - c. provide subcontractors, sub-consultants, and suppliers to whom the Bidder intends to sublet a portion or portions of the Work with complete information as to the requirements of the Work. This is to include maps, drawings, reports, specifications, and all requirements of the Bid Solicitation Document including any addenda.
- iv. In the event of discrepancies between the maps, drawings, reports, and the specifications with regard to quantity or quantities of materials or items, and in the absence of Addenda in clarification of said discrepancies, the Bidder is to include for the larger quantity or quantities.
- v. No additional payments will be made for any costs incurred through failure of the Bidder to abide by provisions stipulated in all of the articles and sub-articles of this item.
- vi. Any soils investigation, environmental, geotechnical or other reports prepared or obtained with respect to the Place of the Work (collectively the "Reports") are available from the Consultant. Where the Work involves existing buildings, structures, facilities, plant or equipment, any reports, data or as-built drawings concerning such buildings, structures, facilities, plant or equipment (collectively the "Data") are available from the Consultant. The Reports should not be considered a representation of the site conditions of the entire Place of the Work, and the Reports and Data are provided for general information and guidance purposes only. Neither the Owner nor the Consultant guarantees the accuracy or completeness of the Reports or the Data, nor does either assume any responsibility for any interpretations or conclusions that bidders may make or draw from the Reports or the Data.
- vii. Each Bidder is solely responsible, at its own cost and expense, to carry out its own independent research and due diligence, or to perform any other investigations considered necessary by the Bidder to satisfy itself as to all existing conditions. The

Bidders' obligations set out in this paragraph apply irrespective of any Reports, Data or any information contained in the Bid Documents.

- viii. No allowances will be made for additional costs and no claims will be entertained in connection with conditions which could reasonably have been ascertained by investigation or other due diligence undertaken prior to the Submission Deadline, and/or in connection with Work which is required and which is reasonably inferable from the Bid Documents, the Reports and/or Data as being necessary.

52. Site Existing Services, if applicable

The position of utility pole lines, underground conduits and services, watermains, sewers and other underground and over ground utilities and structures are not necessarily known, and the accuracy of the position of such utilities and structures on any reference documents is not guaranteed. The Board will not be responsible for damages or extra work caused or occasioned by the Vendor/Contractor relying on this or any other information or records.

Before starting work, the Vendor/Contractor shall familiarize themselves of the exact location of all such utilities and structures and shall assume all liability for damage to them. Where extra measures are required to support utility poles during construction either by the utility involved or the Vendor/Contractor themselves, the costs involved shall be borne by the Vendor/Contractor. The Vendor/Contractor will be responsible for any fees that may be associated with these services.

53. Site Inspection and Control

A representative of the Board (appointed by the Board) reserves the right to enter the site at any time for the review & inspection. The presence of a said representative does not indicate satisfaction or compliance unless these comments are made by the representative and submitted to the Vendor/Contractor in written form

54. Site Investigation

Bidders shall not rely solely upon information furnished by the Board but shall do their own investigation of the locations, and quantity of the work to be completed under this contract.

The Bidder assumes all risk of conditions, existing or arising, in the course of the work, which might or could make the work or any items therefore more expensive in character, or more onerous to fulfill, than was contemplated or known when the Bid was made, or the Contract signed.

55. Site Safety and Clean Up

For safety of students, staff, and community members alike, it is expected that cleanup operations will progress with the job.

Repair work will be carried out by skilled workers acceptable to the Board Representative, under the liability of the Vendor/Contractor.

The Board Authorized Representative must approve all repairs and replacements prior to final payment.

56. Site Traffic/Pedestrian Safety

Vehicles, including Couriers and movable Equipment/Machinery must take all precautions to avoid entering or driving on Board premises during nutritional breaks, before and after school hours, or anytime there are students or staff outside of the building.

57. Site Use and Traffic Control

Vendor/Contractor's activities shall be limited to areas for work and storage as directed by the Board. Except where expressly permitted by the Board, materials and/or equipment must not be stored within four metres of the travelled portion of any roadway. Notwithstanding the foregoing, the Vendor/Contractor shall, at their own expense, remove any equipment or material, which, in the Board's opinion, constitutes a traffic hazard.

The Vendor/Contractor shall plan and schedule the routes of vehicles transporting all materials to, from or within the job, so that vehicular movements are accomplished with minimum interference and interruption to traffic. This will necessitate vehicles to "slip off" or "slip on" in the direction of traffic lanes.

The Vendor/Contractor shall maintain the adjacent side streets in a condition free from debris resulting from their operations, such as materials spilling from trucks. It is expected that the Vendor/Contractor shall regularly inspect the surface condition of these streets and promptly dispose of all the debris.

Should the Vendor/Contractor be unable to carry out the required remedial measures, the Board may carry out the necessary maintenance and the costs for the work shall be deducted from payments due to the Vendor/Contractor.

The Vendor/Contractor shall, at his own expense and to the satisfaction of the Board, provide all vehicular traffic control equipment, material, and labor required to perform the work in a safe manner in accordance with the "Occupational Health and Safety Act" and the "Ontario Traffic Manual" (Book 7). The Vendor/Contractor shall assure that all required forms are completed and on-site for inspection. In the event a traffic control company is contracted for the purpose of signage, information regarding the Vendor/Contractor must be included in the quotation and included with the bid price.

The Vendor/Contractor shall be responsible for the supply of traffic flag person(s) where required under the "Ontario Traffic Manual" (Book 7), with all costs included in the base unit price.

58. Suspension of Bidders

At the sole discretion of the Manager of Procurement Services, any Bidder may be suspended from consideration for default of delivery, unsatisfactory performance, safety concerns, lobbying or contravention of the Bid Solicitation Document.

59. Sustainable Purchasing

The procurement needs of the Board represent a significant level of responsibility to demonstrate leadership and support for greener business practices. Integrating environmental performance and impact into supply chain decisions is a commitment to improvement of the environment and the quality of life.

Green procurement shall be viewed in the context of achieving value for money for the total life-cycle costs. It requires the inclusion of environmental impact considerations into the procurement process, including planning, acquisition, use and disposal. Value for money shall include the consideration of many environmental tangible and intangible factors when determining the total life-cycle costs and environmental impact.

60. Termination

If the Vendor/Contractor fails to comply with any provision of this agreement or otherwise fails to perform its obligations hereunder in a competent manner satisfactory to the Board, the Board may give the Vendor/Contractor notice in writing of such failure. If the Vendor/Contractor has not remedied its failure within ten (10) working days of the said notice, the Board shall be entitled to exercise any one or more of the following remedies:

- i. The Board may terminate the contract without further notice, and exercise its rights to the Contract security provided by the Vendor/Contractor.
- ii. The Board may withhold any payment due to the Vendor/Contractor hereunder until the Vendor/Contractor has remedied its failure.
- iii. The Board may engage the services of another Bidder to remedy the Vendor/Contractor's failure, and obtain reimbursement therefore from the Vendor/Contractor. The said reimbursement may be obtained either through deduction from any amounts owing to the Vendor/Contractor hereunder, or through any other legal means available to the Board; or
- iv. The Board may assert any other remedy available to it in law or equity.

Unless the Board expressly agrees to the contrary, any failure of the Board to exercise any of the foregoing remedies, or the granting of any extension or indulgences, shall not be prejudicial to any right of the Board to subsequently obtain such remedies.

61. Termination for Convenience

The Board may terminate the Contract, in whole or in part, whenever the Board determine that such termination is in the best interests of the Board without showing cause, upon providing written notice to the Vendor/Contractor. The Board shall pay all reasonable costs incurred by the Vendor/Contract up to the date of termination considering the Work performed and/or services were provided in accordance with the Contract and to the complete satisfaction of the Board. Payment shall be in accordance with prices as per Contract. However, in no event shall the Vendor/Contractor be paid an

amount, which exceeds the Total Bid Price. The Vendor/Contractor will not be reimbursed for any profits which may have been anticipated but which have not been earned up to the date of termination.

62. Termination for Lack of Funding

Should the Board fail to appropriate funds to enable payments including multi-year agreements, the Board may cancel the contract without termination charges, provided the Vendor/Contractor receives thirty (30) days written notice of such termination from the Board.

63. Tools and Equipment

All equipment and methods used to carry out this Contract shall be in accordance with best practices, guidelines, regulations, and standards with respect to safety and quality.

No equipment, tools or materials are to be stored or left overnight within Board property.

At the time of bid, if requested, the bidders will indicate the type of equipment that will be used to fulfill the terms and conditions of this contract. Prior to the Board entering into an agreement with the Vendor/Contractor, or at any time during the Contract, the Board may, at their discretion, request an inspection of the equipment proposed for use.

It is the responsibility of the Vendor/Contractor, in the event of a major mechanical equipment breakdown, to have available substitute equipment of similar capability. It shall be supplied and put into service to fulfill the timeline terms of this tender. Failure to provide alternative equipment within timeline expectations specified within this tender, may result in termination of the contract. It is the responsibility of the Vendor/Contractor to ensure work continues and deadlines are met, despite any unforeseen interruption as a result of equipment failure.

It is the Vendor/Contractor's responsibility to ensure that the equipment and the operator, are licensed in accordance with the Ministry of Transportation. The Board may, at their discretion, require the Vendor/Contractor to provide proof that the equipment has passed a recent (within the last 12 months) government safety inspection and that the operators are suitably licensed prior to commencement of the contract. All vehicles, tools, equipment, and voltage rated gloves requiring dielectric testing shall have current certification and all applicable documentation.

The equipment must be in good working order and the Vendor/Contractor is responsible for all general and preventative maintenance, fuel, and repair and those costs shall be included in the bid. All preventative maintenance and repairs are to be conducted off peak hours. No other charges to the Board shall apply.

64. Usage Reports

The Board, at no additional cost, may request usage reports to be provided annually or upon request.

65. Variation of Bid Prices

No variation in the Total Price, unit prices and/or provisional pricing will be permitted after Closing Time, except in the instance of variation solely due to an increase or decrease in the rate of eligible taxes, beyond the control of the Bidder, occurring after the time of submission of their Bid. An increase or a decrease in the rate of eligible taxes, under these circumstances, shall alter the price of the Bid, but only to the extent of the tax increase or decrease.

66. Volume and Exclusivity

The Board makes no guarantee of value or volume of work to be assigned to the Successful Bidder. Any agreement executed with the Successful Bidder may not be an exclusive contract for the provision of the described goods/services.

67. Waiver

No term or provision of the Bid Solicitation Document shall be deemed waived, and no breach consented to, unless such waiver or consent is in writing and signed by an authorized representative of the party claimed to have waived or consented to the breach. No consent by a party to, or waiver of, a breach under the procurement process shall constitute consent to, waiver of, or excuse for any other, different, or subsequent breach.

The Board does not accept responsibility for any information or any errors or omissions which may be contained in the Bid Solicitation Document, or the data, materials or documents disclosed or as provided to the Bidders pursuant to the procurement. The Board make no representation or warranty, either expressed or implied, in fact or in law with respect to the accuracy or completeness of the Bid Solicitation Document or such data, materials or documents and the Board shall not be responsible for any actions, costs, losses or liability whatsoever arising from any Bidder's reliance or use of the Bid Solicitation Document or any other technical or historical data, materials or documents provided by the Board. The Bidder is responsible for obtaining its own independent financial, legal, accounting, and technical advice with respect to any information included in the Bid Solicitation Document or in any data, materials, or documents provided or required by the Board.

68. Warranty and Maintenance

The Vendor/Contractor, at the time of substantial completion, shall furnish a written warranty covering material, maintenance, and work performed under the contract for a minimum period of two (2) years from the date of completion. Individual sections may extend warranties beyond the two (2) year time frame. The Vendor/Contractor is responsible for all required maintenance complete with materials and labour during the

warranty period.

69. Work Continuity

The Vendor/Contractor shall take adequate care to protect the Work, the Board's property, adjacent properties and shall be fully responsible for any damage or injury due to their act or neglect or is attributable to the acts or omissions of the Vendor/Contractor, its subcontractors, suppliers, agents, employees, officers, directors, and all other persons and other entities for whose acts the Vendor/Contractor may be liable or for whom it is responsible in law and their respective officers, directors, agents and employees.

The Vendor/Contractor shall ensure minimal to no disturbance to the user(s) of the surrounding facilities. Replacement and repairs due to any damage caused to any existing structure, Board equipment, public assets or private property during the Work shall be the responsibility of the Vendor/Contractor.

70. Work Requirements

The Vendor/Contractor shall perform entire work with minimal to no disturbance to the routine operations of the respective facility. Further, the Vendor/Contractor shall ensure safety of WRDSB assets, students, staff as well as public at all times.

71. Workplace Safety Insurance Board (WSIB) Certificate

The Board requires all Vendor/Contractors and service providers be in full compliance with all requirements imposed upon them by the Workplace Safety Insurance Board. All certificates of training and Safety Policies and Manuals must be available for presentation upon request.

Prior to a formal award and commencing the services covered by this Bid Solicitation, the recommended Bidder(s) make available to the Board a copy of certificates of good standing with the Workplace Safety and Insurance Board ("WSIB Certificates") stating that the vendor/contractor/consultant and all of its sub-contractors/consultants have complied with the requirements of the Workplace Safety and Insurance Act and in particular, that all requisite premiums under such Act have been paid. Where the Bidder is exempt from registration with the WSIB, the Bidder must provide evidence of such by way of written confirmation from WSIB.

WSIB Certificate evidencing renewal or replacement of Certificates shall be uploaded through the Bidding System within 72 hours of the expiration or replacement of the current certificate, without demand by the Board.

END OF SECTION

00 73 00 “The Supplementary Conditions”

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

(the “Supplementary Conditions”)

**AGREEMENT, DEFINITIONS, AND
GENERAL 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 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

ARTICLE A-1 – THE WORK

SC17.1	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 <u>_23</u> day of <u>August_</u> in the year 2024. .2 (if applicable) <i>Occupancy</i> by the 26 day of <u>_August__</u> in the year 2024, and .3 <i>Ready-for-Takeover</i> by the 30 day of <u>_August__</u> in the year 2024.”</p>
SC1.1		

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 Region District School Board’s Supplementary Conditions & Amendments to Standard Construction Document CCDC 2-2020 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 Act) if applicable • Labour and Material Payment Bond (Form 31 – Labour and Material Payment Bond under Section 85.1 of the Act), if applicable
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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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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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		<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> <p>.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,</p> <p>.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 10% 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>.</p> <p>.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, excluding <i>Deficiency Holdback</i>, together with such <i>Value Added Taxes</i> as may be applicable to such payment."</p>
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>"1.1 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>

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

SC3.1	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 <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</p>
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		<p>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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***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> <p>10.3 The Contractor shall pay to the Owner compensation for all additional costs and damages borne by the Board to cover costs incurred due to delay beyond contract timelines, until Ready-for-Takeover is achieved and certified pursuant to the terms of the Contract. Liquidated damages will be assessed as incurred and amounts will be payable directly to the Board. Additional costs may include, but are not limited to: temporary classrooms, temporary washrooms, additional staff, etc.</p>
SC6.2		

DEFINITIONS

<i>Revisions to Existing Definitions</i>		
SC5.1	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>
SC5.2	Payment Legislation/Construction Act	<p><u>Delete</u> the Definition of <i>Payment Legislation</i> and replace it with “<i>Construction Act</i>” 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>) commenced on or after October 1, 2019.”</p>
SC5.3	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>
<i>New Definitions</i>		
	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>
	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>
	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;

		<p>.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</p> <p>.4 is independently developed by the <i>Contractor</i> without use of any <i>Confidential Information</i>.”</p>
	Construction Schedule	<p><u>Add</u> the following definition:</p> <p>“Construction Schedule <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>
	Construction Schedule Update	<p><u>Add</u> the following definition:</p> <p>“Construction Schedule Update <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>(a) a record version of the updated <i>Construction Schedule</i> in .pdf format;</p> <p>(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>
	Deficiency Holdback	<p><u>Add</u> the following definition:</p> <p>Deficiency Holdback - a value applied to the total contract value to cover the cost of completing deficiencies in, or correcting defects in The Work.</p>
	Direct Costs	<p><u>Add</u> the following definition:</p> <p>“Direct Costs <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>
	EFT	<p><u>Add</u> the following definition:</p> <p>“EFT <i>EFT</i> has the definition given to it under GC 5.3.2.”</p>

	Excess Soil	<p><u>Add</u> the following definition:</p> <p>“Excess Soil <i>Excess Soil</i> means “excess soil” as that term is defined under section 3 of the <i>Excess Soil Regulation</i>.”</p>
	Excess Soil Regulation	<p><u>Add</u> the following Definition:</p> <p>“Excess Soil Regulation <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>
	Final Pre-Invoice Submission Meeting	<p><u>Add</u> the following ne definition:</p> <p>“Final Pre-Invoice Submission Meeting <i>Final Pre-Invoice Submission Meeting</i> has the meaning given to it in GC 5.5.1.”</p>
	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 or revoking of funding from 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>
	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>
	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>
	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>
	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>
	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>
	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>
	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>
	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>
	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>
	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>

	Restricted Period	<p>Add 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>
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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

GC 1.1 CONTRACT DOCUMENTS

SC5.1	1.1.3	<p>Delete 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 a review and report the result, the <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>
SC5.2	1.1.4	<p>Delete 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>
	1.1.5.1	<p>Delete 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> .
	1.1.5.5	<u>Delete</u> GC 1.1.5.5 and <u>replace</u> with the following: ".5 Noted materials and annotations on the <i>Drawings</i> shall govern over the graphic representation of the <i>Drawings</i> ."
	1.1.5.6 to 1.1.5.8	<u>Add</u> the following new GC 1.1.5.6 to 1.1.5.8 as follows: ".6 Finishes in the room finish schedules shall govern over those shown on the <i>Drawings</i> . .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. .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."
	1.1.9	<u>Add</u> the following to the end of GC 1.1.9: " <i>The Specifications are divided into divisions and sections for convenience but shall be read as a whole and neither such division nor anything else contained in the Contract Documents will be construed to place responsibility on the Owner or the Consultant to settle disputes among the Subcontractors and Suppliers with respect to such divisions. The Drawings are, in part, diagrammatic and are intended to convey the scope of the Work and indicate general and appropriate locations, arrangements and sizes of fixtures, equipment, outlets and other elements. The Contractor shall obtain more accurate information about the locations, arrangements and sizes from study and coordination of the Drawings, including Shop Drawings and shall become familiar with conditions and spaces affecting those matters before proceeding with the Work. Where site conditions require reasonable minor changes where the change requires only the additional labour two hours or less, the Contractor shall make such changes at no additional cost to the Owner. Similarly, where known conditions or existing conditions interfere with new installation and require relocation, the Contractor shall include such relocation in the Work. The Contractor 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 Contract Documents, wherever located and whenever issued, which compile information of similar content and may consist of drawings, tables and/or lists.</i> "
	1.1.13	<u>Add</u> new paragraphs 1.1.13 as follows: 1.1.13 The Contractor 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> ."

GC 1.3 RIGHTS AND REMEDIES

SC6.1	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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***NEW* GC 1.5 EXAMINATION OF DOCUMENTS AND SITE**

SC8.1	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 <i>Contract</i> 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 thereof more expensive in character, more onerous to fulfill than was contemplated or known when the tender was made or the <i>Contract</i> signed.</p> <p>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>.</p>
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PART 2 ADMINISTRATION OF THE CONTRACT

GC 2.2 ROLE OF THE CONSULTANT

SC11.1	2.2.5	<p><u>Delete</u> paragraph 2.2.4 and <u>replace</u> it with the following:</p> <p>“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</i></p>
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		<i>Invoice, the Consultant shall notify the Owner as provided in GC 5.3.1.2 and prepare a draft of the applicable Notice of Non-Payment for the amount in dispute.</i>
	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”.
	2.2.12	At paragraph 2.2.12, <u>insert</u> the following at end of that paragraph: “If, in the opinion of the Contractor, the Supplemental Instruction involves an adjustment in the Contract Price or in the Contract Time, it shall, within ten (10) Working Days of receipt of a Supplemental Instruction, provide the Consultant 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 Supplemental Instruction by the Contractor, without any adjustment in the Contract Price or Contract Time.”

GC 2.3 REVIEW AND INSPECTION OF THE WORK

SC10.1	2.3.2	<u>Amend</u> paragraph 2.3.2 by <u>adding</u> the words “and Owner” after the words “Consultant” in the second and third lines.
	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 Contractor shall furnish promptly two copies to the Consultant and one copy to the Owner of all certificates and inspection reports relating to the Work.”
	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.
	2.3.5	In paragraph 2.3.5 in the first line after the word “Consultant”, <u>add</u> “or the Owner”.
	2.3.8	<u>Add</u> a new paragraph 2.3.8 as follows: “2.3.8 The Consultant will conduct periodic reviews of the Work in progress, to determine general conformance with the requirements of the Contract Documents. Such reviews, or lack thereof, shall not give rise to any claims by the Contractor in connection with construction means, methods, techniques, sequences and procedures, nor in connection with construction safety at the Place of Work, responsibility for which belongs exclusively to the Contractor.”

GC 2.4 DEFECTIVE WORK

SC11.1	2.4.1	<u>Amend</u> GC 2.4.1 by inserting “, the Owner and/or its agent” in the first sentence following “rejected by the Consultant”.
	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 Contractor shall rectify, in a manner acceptable to the Consultant and to the Owner through the Consultant all defective work and deficiencies throughout the Work, whether or not they are specifically identified by the Consultant. 2.4.1.2 The Contractor shall prioritize the correction of any defective work, which, in the sole discretion of the Owner through the Consultant, adversely affects the day to day operations of the Owner or which, in the sole discretion of the Consultant, adversely affects the progress of the Work.”

	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."
	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

GC 3.1 CONTROL OF THE WORK

SC12.1	3.1.2	Amend paragraph 3.1.2 by <u>inserting</u> the words "Construction Schedule" after the word "sequences".
SC12.2	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 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> . 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."

GC 3.2 CONSTRUCTION BY OWNER OR OTHER CONTRACTORS

SC13.1	3.2.2.1	<u>Delete</u> subparagraph 3.2.2.1 and <u>replace</u> it with "[Intentionally left blank]".
	3.2.3.2	<u>Delete</u> subparagraph 3.2.3.2 and <u>replace</u> it with the following: ".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> ."
	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 semicolon.
	3.2.3.5	<u>Add</u> new subparagraph 3.2.3.5 as follows: ".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> .”
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GC 3.3 TEMPORARY WORK

SC14.1	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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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> <ol style="list-style-type: none"> 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 both original digital file format (<i>e.g.</i>, .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”; .2 provide the expertise and resources, such resources including manpower equipment and tools, 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, .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
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		<p>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>
	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>

GC 3.5 SUPERVISION

SC17.1	3.5.1	<p><u>Delete</u> GC 3.5.1 and <u>replace</u> it with the following:</p> <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>
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	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>
	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>

GC 3.6 SUBCONTRACTORS AND SUPPLIERS

SC18.1	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>
	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>
	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 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.”</p>
	3.6.7, 3.6.8,	<p><u>Add</u> new paragraphs 3.6.7, 3.6.8, 3.6.9, and 3.6.10 as follows:</p>

3.6.9 & 3.6.10	<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>
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GC 3.7 LABOUR AND PRODUCTS

SC19.1	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.
SC19.2	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>
	3.7.4 to 3.7.8	<p><u>Add</u> new paragraphs 3.7.4, 3.7.5, 3.7.6, 3.7.7, and 3.7.8 as follows:</p> <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</p>

		<p>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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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>
	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</i></p>

		<i>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 submissions. The Contractor shall periodically re-submit the Shop Drawings schedule to correspond to changes in the Construction Schedule."</i>
	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."
	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."

***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
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		<p>or force that will endanger the safety of the <i>Work</i>.</p> <p>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>."</p>
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***NEW* GC 3.10 CUTTING AND REMEDIAL WORK**

SC23.1	GC 3.10	<p><u>Add</u> 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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***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,</p>
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		<p><i>Construction Equipment, and 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, 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> <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, 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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***NEW* GC 3.12 EXCESS SOIL MANAGEMENT**

SC25.1	GC 3.12	<p>Add 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</p>
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		to which the <i>Owner</i> is not covered by insurance.”
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***NEW* GC 3.13 CONTRACTOR STANDARD OF CARE**

SC25.1	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 .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

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.”
	4.1.4	<p><u>Delete</u> GC 4.1.4 in its entirety and <u>replace</u> it with the following:</p> <p>“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>.”</p>

	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."
	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

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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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. 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: .1 a copy of the draft application for payment;
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		<p>.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</p> <p>.3 any other documents reasonably requested, in advance, by the <i>Owner</i> or the <i>Consultant</i>.”</p>
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> <p>.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:</p> <p>.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>.</p> <p>.2 The application for payment must be delivered to the <i>Owner</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:</p> <p style="text-align: center;">facilities_cap@wrdsb.ca</p> <p>.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.</p> <p>.4 No applications for payment shall be accepted by the <i>Owner</i> prior to the <i>Proper Invoice Submission Date</i>.</p> <p>.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>.”</p>
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</i>’s opinion, they are placed</p>

		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.”
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	5.2.9	<u>Add</u> new 5.2.9 as follows: “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.”

GC 5.3 PAYMENT

SC30.1	5.3.1	<u>Delete</u> GC 5.3.1 in its entirety, including all subparagraphs thereunder, and <u>replace</u> it with the following: “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: .1 the <i>Consultant</i> will either: (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 (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; .2 the <i>Owner</i> shall make payment to the <i>Contractor</i> on account as provided in Article A-5 PAYMENT, (a) in the amount stated in the certificate for payment, or
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		<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>
	<p>5.3.2 to 5.3.7</p>	<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> <ol style="list-style-type: none"> .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; .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>; .3 any other amount owing from the <i>Contractor</i> to the <i>Owner</i> under this <i>Contract</i>. <p>5.3.6 The amounts disputed and described under the <i>Notice of Non-Payment</i> shall be held by the</p>

		<p><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 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.”</p>
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GC 5.4

SUBSTANTIAL PERFORMANCE OF THE WORK- AND PAYMENT OF HOLDBACK

SC32.1	GC 5.4	<p><u>Delete</u> 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, warranty cards and all other relevant literature from suppliers and manufacturers including, but not limited to, where applicable (the “Close-Out Documentation”):</p> <ol 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;
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		<p>.11 testing and balancing results and reports;</p> <p>.12 <i>Commissioning</i> and quality assurance documentation;</p> <p>.13 distribution system diagrams;</p> <p>.14 spare parts;</p> <p>.15 samples;</p> <p>.16 existing reports and correspondence from authorities having jurisdiction in the <i>Place of the Work</i>;</p> <p>.17 inspection certificates;</p> <p>.18 red-lined record drawings from the construction trailer in two copies and</p> <p>.19 other materials or documentation required to be submitted under the <i>Contract</i>.</p> <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> <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,</p>
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		<p>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> <ul style="list-style-type: none">.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.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>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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GC 5.5 FINAL PAYMENT

SC35.1	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. <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> <ul style="list-style-type: none"> .1 the <i>Consultant</i> will either: <ul style="list-style-type: none"> (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 (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; .2 the <i>Owner</i> shall make payment to the <i>Contractor</i> on account as provided in Article A-5 PAYMENT, <ul style="list-style-type: none"> (a) in the amount stated in the certificate for payment, or
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		<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 5.5.5,</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> <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 back charge 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 a 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 the foregoing, the <i>Owner</i> shall release the holdback in accordance with the <i>Construction Act</i>."</p>
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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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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 retain a <i>Deficiency Holdback</i>, In addition to the Construction Act holdback. The <i>Deficiency Holdback</i> in the value of 2% shall be applied against the total Contract value and shall be applied to each progress payment. The <i>Deficiency Holdback</i> shall be payable to the Contractor upon the confirmation of completion of all deficiencies and defects in work by the Consultant and the Owner.</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> and confirmed to be corrected, 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

GC 6.1

OWNER’S RIGHT TO MAKE CHANGES

SC37.1	6.1.2	<p><u>Add</u> the following to the end of GC 6.1.2:</p> <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>
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	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, scheduling, 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 Changes to the contract shall be quoted to permit the work to be executed within the <i>Contract Time</i> unless approved by the <i>Consultant</i> and the <i>Owner</i>.</p> <p>6.1.8 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>6.1.9 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>

GC 6.2 CHANGE ORDER

SC38.1	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</p>
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		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> .”
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 Contractor on work of their own forces, 5% overhead, 5% profit.</p> <p>.2 Subcontractor on work of their own forces, 5% overhead, 5 % profit</p> <p>.3 Contractor on work of Subcontractor, 5% overhead only.</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,</p> <p>.2 unit cost of each material,</p> <p>.3 man hours involved,</p> <p>.4 cost per hour,</p> <p>.5 <i>Subcontractor</i> quotations submitted listing items 1 to 4 above and item 6 below.</p> <p>.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>

GC 6.3 CHANGE DIRECTIVE

SC39.1	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 Contractors work by their own forces - 5% overhead and 5% profit, Subcontractor work by their own forces – 5% overhead and 5% profit, Contractors on Subcontractors work – 5% overhead only.</p>
	6.3.6.2	<p><u>Delete</u> paragraph 6.3.6.2 and <u>replace</u> it with the following:</p>

		“.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.”
	6.3.7.1(4)	<u>Delete</u> GC 6.3.7.1(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;”
	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> ;”.
	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> ;”.
	6.3.7.13	<u>Delete</u> GC 6.3.7.13.
	6.3.7.15	<u>Delete</u> GC 6.3.7.15.
	6.3.7.17	<u>Delete</u> GC 6.3.7.17 in its entirety including all subparagraphs.
	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.”

GC 6.4 CONCEALED OR UNKNOWN CONDITIONS

SC40.1	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> .”
	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

		<p>the <i>Contract Documents</i> and 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.”</p> <p>-and-</p> <p><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,”.</p>
	6.4.3	<p><u>Delete</u> paragraph 6.4.3 in its entirety and <u>substitute</u> the following:</p> <p>“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>.”</p>
	6.4.5	<p><u>Add</u> new paragraph 6.4.5 as follows:</p> <p>“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.”</p>

GC 6.5 DELAYS

SC41.1	6.5.1	<p>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).”</p>
	6.5.2	<p><u>Delete</u> GC 6.5.2 in its entirety and <u>replace</u> it with the following:</p> <p>“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).”</p>
	6.5.3	<p><u>Delete</u> paragraph 6.5.3 in its entirety and <u>replace</u> with the following:</p> <p>“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.</p>

		<p>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>.”</p>
	6.5.4	<p><u>Delete</u> paragraph 6.5.4 in its entirety and <u>replace</u> it with the following:</p> <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>
	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>

		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> ."
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PART 7 DEFAULT NOTICE

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

SC43.1	7.1.2	In GC 7.1.2, <u>delete</u> 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".
SC43.2	7.1.3.4	<u>Add</u> a new subparagraph 7.1.3.4 as follows: ".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 <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> ."
	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> ."
	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> ."
	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"
	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

		<p>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.</p>
	7.1.8	<p>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.</p>
	7.1.9	<p>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.</p>
	7.1.10	<p>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 suspension shall continue after such termination of the <i>Contract</i> or suspension of the <i>Work</i>."</p>

GC 7.2

CONTRACTOR'S RIGHT TO SUSPEND THE WORK OR TERMINATE THE CONTRACT

SC44.1	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>
SC44.2	7.2.3.1	<p><u>Delete</u> subparagraph 7.2.3.1 in its entirety.</p>
	7.2.3.2	<p><u>Delete</u> subparagraph 7.2.3.2 in its entirety.</p>
	7.2.3.4	<p>In subparagraph 7.2.3.4, <u>delete</u> the words "except for GC 5.1 - FINANCING INFORMATION REQUIRED OF THE OWNER".</p>
	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> <p>.1 commences correction of the default within the specified time;</p>

		<p>.2 provides the <i>Contractor</i> with an acceptable schedule for such correction; and,</p> <p>.3 completes the correction in accordance with such schedule.”</p>
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> <p>.1 the <i>Contractor’s</i> failure to pay all legitimate claims promptly, or</p> <p>.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> <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 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>	

PART 8 DISPUTE RESOLUTION

GC 8.1 AUTHORITY OF THE CONSULTANT

SC45.1	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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GC 8.2 ADJUDICATION

SC45.2	8.2.2 to 8.2.7	<p>Add 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> <ol style="list-style-type: none"> .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; .2 the <i>Adjudication</i> shall be conducted in English; .3 each party may be represented by counsel throughout an <i>Adjudication</i>; .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 .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>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> <ol 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>
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		<p>8.2.7 The parties hereby acknowledge and agree,</p> <p>.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>;</p> <p>.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>;</p> <p>.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>;</p> <p>.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</p> <p>.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> <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 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>."</p>
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GC 8.3 NEGOTIATION, MEDIATION AND ARBITRATION

SC46.1	8.3.1	<u>Amend</u> 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."
	8.3.4	<u>Amend</u> 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> ".
	8.3.6 to 8.3.9	<u>Delete</u> 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: "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>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>
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PART 9 PROTECTION OF PERSONS AND PROPERTY

GC 9.1 PROTECTION OF WORK AND PROPERTY

SC47.1	9.1.1.1	<p><u>Delete</u> 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>
	9.1.2	<p><u>Delete</u> 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>
	9.1.5	<p><u>Add</u> new paragraph 9.1.5 as follows:</p> <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>

GC 9.2 TOXIC AND HAZARDOUS SUBSTANCES

SC48.1	9.2.1	Amend GC 9.2.1 by <u>inserting</u> the following to the end of the paragraph: “For the purposes of GC 9.2 – TOXIC AND HAZARDOUS SUBSTANCES, <i>Excess Soil</i> shall not be considered a ‘toxic and hazardous substance’.”
SC48.2	9.2.5.5	Add a new subparagraph 9.2.5.5 as follows: “.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.”
	9.2.6	<u>Amend</u> GC 9.2.6 by <u>adding</u> the following words after the word “responsible” in the second line: “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,”.
	9.2.8	<u>Amend</u> GC 9.2.8 by <u>adding</u> the following words after the word “responsible” in the second line: “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,”.
	9.2.10	<u>Add</u> new paragraph 9.2.10 as follows: “9.2.10 The <i>Contractor, Subcontractors and 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> .”

GC 9.4 CONSTRUCTION SAFETY

SC49.1	9.4.1	<u>Delete</u> GC 9.4.1 in its entirety and <u>replace</u> it with the following:
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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>
	9.4.2	<p>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>”.</p>
	9.4.3	<p>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>”.</p>
	9.4.4	<p><u>Delete</u> GC 9.4.4 and replace it with the following: “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>
	9.4.5	<p><u>Delete</u> GC 9.4.5 in its entirety and <u>replace</u> it with the following: “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>.”
	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: “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</i></p>

		<p><i>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 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

GC 10.1 TAXES AND DUTIES

SC50.1	10.1.2	<u>Amend</u> paragraph 10.1.2 by <u>adding</u> the following sentence to the end of the paragraph:
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		“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</u> taxes if requested by the <i>Owner</i> in a form satisfactory to the <i>Owner</i> .”
	10.1.3	<u>Add</u> new paragraph 10.1.3 as follows: “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 <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.”

GC 10.2 LAWS, NOTICES, PERMITS, AND FEES

SC51.1	10.2.5	<u>Amend</u> paragraph 10.2.5 by <u>adding</u> the words “Subject to paragraph 3.4” at the beginning of the paragraph. -and- <u>Add</u> the following to the end of the second sentence: “...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> .”
	10.2.6	<u>Amend</u> paragraph 10.2.6 by <u>adding</u> the following sentence to the end of the paragraph: “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> .”
	10.2.7	<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”.
	10.2.8	<u>Add</u> new paragraph 10.2.8 as follows: “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.”

GC 10.4 WORKERS’ COMPENSATION

SC52.1	10.4.1	<u>Delete</u> paragraph 10.4.1 and <u>replace</u> with the following:
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		<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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GC 11.1 INSURANCE

<p>SC53.1</p>	<p>11.1</p>	<p><u>Delete</u> entirety of GC 11.1 and <u>replace</u> with the following: "GC 11.1 INSURANCE 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. .1 General Liability Insurance 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 \$5,000,000.00 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. .2 Automobile Liability Insurance Automobile liability insurance in respect of licensed vehicles shall limits of not less than \$2,000,000.00 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>. .3 Aircraft and Watercraft Liability Insurance</p>
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		<p>Intentional Deleted. Not Applicable</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 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>
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		<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 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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***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> <p>.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>,</p>
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		<p>.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;</p> <p>.3 shall be in the form prescribed by the <i>Construction Act</i>;</p> <p>.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>;</p> <p>.5 extends protection to <i>Subcontractors, Suppliers</i>, and any other persons supplying labour or materials to the <i>Project</i>; and</p> <p>.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> <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> <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

GC 12.1 READY-FOR-TAKEOVER

SC55.1	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> <p>.1 <i>Substantial Performance of the Work</i> has been achieved, as certified by the <i>Consultant</i>;</p> <p>.2 a permit for occupancy of the <i>Place of the Work</i> has been obtained from the authorities having jurisdiction;</p> <p>.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>,</p> <p>.4 final cleaning and waste removal, as required by the <i>Contract Documents</i>;</p>
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		<p>.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;</p> <p>.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>;</p> <p>.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>;</p> <p>.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</p> <p>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.”</p>
SC55.2	12.1.2	<p><u>Delete</u> GC 12.1.2 in its entirety and <u>replace</u> it with the following:</p> <p>“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>.”</p>
SC55.3	12.1.3	<p><u>Delete</u> GC 12.1.3 in its entirety and <u>replace</u> it with the following:</p> <p>“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.”</p>
SC55.4	12.1.4	<p>In GC 12.1.4, <u>delete</u> the words “list and” from the second line.</p>
SC55.5	12.1.5	<p><u>Delete</u> GC 12.1.5 in its entirety and <u>replace</u> it with the following:</p> <p>“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.”</p>
SC55.6	12.1.6	<p><u>Delete</u> GC 12.1.6 in its entirety.</p>

GC 12.2 EARLY OCCUPANCY

SC56.1	GC 12.2	<p><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:</p> <p>“12.2.1 The Owner 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 Work may not have reached Substantial Performance of the Work. Where the Work extends beyond the Contract Time, progress and completion of the Work shall not unduly interfere with the delivery of scheduled school programs. The taking of possession or use of any such portion of the Project shall not be deemed to be the Owner’s acknowledgement or acceptance of the Work or Project nor shall it relieve the Contractor of any of its obligations under the Contract.</p> <p>12.2.2 Whether the Project contemplates Work by way of renovations in buildings which will be in use or be occupied during the course of the Work or where the Project involves Work that is adjacent to a structure which is in use or is occupied, the Contractor, 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.”</p>
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GC 12.3 WARRANTY

SC57.1	12.3.1 12.3.2	<p><u>Delete</u> from the first line of paragraph 12.3.1 the words “one year” and <u>replace</u> it with the words “two years”</p> <p><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...”</p>
	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> <ol 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> need to 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, services or Products</i> performed or supplied by any <i>Subcontractor, 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, services or Products</i> performed or supplied by any <i>Subcontractor, 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

GC 13.1 INDEMNIFICATION

SC58.1	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, 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’s</i> property or equipment, the <i>Contractor’s</i> property or equipment or equipment or property adjacent to the <i>Place of the Work</i> or death or injury to the <i>Contractor’s</i> personnel).</p>
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		<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's</i> 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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GC 13.2 WAIVER OF CLAIMS

	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>
	13.2.1.1	In subparagraph 13.2.1.1, in each instance change the word “claims” to “Claims” and change the word “claim” to “Claim”.
	13.2.1.2	In subparagraph 13.2.1.2 change the word “claims” to “Claims”.
	13.2.1.3	<u>Delete</u> subparagraph 13.2.1.3 in its entirety.
	13.2.1.4	In paragraph 13.2.1.4 change the word “claims” to “Claims”.
	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>
	13.2.3	<u>Delete</u> paragraph 13.2.3 in its entirety.
	13.2.4	<u>Delete</u> paragraph 13.2.4 in its entirety.
	13.2.5	<u>Delete</u> paragraph 13.2.5 in its entirety.

	13.2.6	In paragraph 13.2.6 change the word “claim” to “Claim” in all instances in the paragraph.
	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.
	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.

***NEW* PART 14 OTHER PROVISIONS**

SC58.1	14.1	<u>Add</u> new PART 14 – OTHER PROVISIONS as follows: “ PART 14 OTHER PROVISIONS GC 14.1 OWNERSHIP OF MATERIALS 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> .”
	14.2	<u>Add</u> new GC 14.2 – CONSTRUCTION LIENS as follows: “ GC 14.2 LIENS 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,

		<p>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> <ul style="list-style-type: none"> .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 .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>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 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> <ul 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;

- (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.

END OF AMENDMENTS TO CCDC 2 - 2020

DIVISION 01 - GENERAL REQUIREMENTS

01 14 00 – Work Restrictions

1.0 GENERAL

1.1. SECTION INCLUDES

- .1 Connecting to existing services
- .2 Special scheduling requirements

1.2. RELATED SECTIONS

- .1 Section 01 53 00 - Temporary Construction.
- .2 Section 01 33 00 - Submittal Procedures.
- .3 This section describes requirements applicable to all Sections within Divisions 02 to 49.

1.3. EXISTING SERVICES

- .1 Notify Owner and Consultant and utility companies of intended interruption of services and obtain required permission.
- .2 Where Work involves breaking into or connecting to existing services, give Consultant and Owner forty-eight (48) hours of notice for necessary interruption of mechanical or electrical service throughout the course of work.
 - .1 Keep duration of interruptions minimum.
 - .2 Perform interruptions after normal working hours of occupants, preferably on weekends.
- .2 Provide for vehicular, pedestrian and personnel traffic.
- .3 Construct barriers in accordance with Section 01 53 00.

1.2. AFTER HOURS WORK

- .1 Schedule Work with school staff through the Board's contact so as to limit disruption to school operations. Include for any overtime, to ensure orderly and continuous progression of Work and operation of school.
- .2 Direct calls from Contractors to Board staff to adjust alarms and to arrange for access will not be accepted. All correspondence must be through the Project Manager.
- .3 Arrange 48 hours in advance with the Board to obtain an access card and adjust security alarms for after hours Work.

- .4 Bidders are cautioned that the Board will be compensated by the Contractor for false alarms. Any costs associated with each false alarm will be levied against the Contractor for false fire alarm activation or security alarm activation. These costs may include, but are not limited to:
 - .1 Fines or penalties imposed by the local Fire Services,
 - .2 Fines or penalties imposed by the local Police Services,
 - .3 Overtime costs borne by the Board.
- .5 Contractors are responsible for ensuring doors and windows are secured prior to leaving school.
- .6 Unless specifically stated otherwise school activities take precedence over Contractor's activities.

1.3. SPECIAL REQUIREMENTS

- .1 Schedule and perform work in occupied areas to the Board Representative's approval.
- .2 Schedule and perform noise generating work to the Board Representative's approval.
- .3 Submit schedule of special requirements or disruptions in accordance with Section 01 33 00.
- .4 All Contractor personnel are restricted to the job site and necessary access routes. No personnel shall visit other areas or buildings without specific authorization.

END OF SECTION

01 19 00 – Specifications and Documents

1.0 GENERAL

1.1. RELATED DOCUMENTS

- .1 This section describes requirements applicable to all sections within Divisions 02 to 49.

1.2. WORDS AND TERMS

- .1 Conform to definitions and their defined meanings in the Agreement and Definitions portion of CCDC 2 for Supplementary Words and Terms listed in Section 00 56 13.

1.3. COMPLEMENTARY DOCUMENTS

- .1 Generally, drawings indicate graphically, the dimensions and location of components and equipment. Specifications indicate specific components, assemblies, and identify quality.
- .2 Drawings, specifications, diagrams and schedules are complementary, each to the other, and what is required by one, to be binding as if required by all.
- .3 Should any conflict or discrepancy appear between documents, which leaves doubt as to the intent or meaning, apply the Precedence of Documents article below or obtain guidance or direction from Consultant.
- .4 Examine all discipline drawings, specifications, schedules, diagrams and related Work to ensure that Work can be satisfactorily executed.
- .5 All specification sections of the Project Manual and Drawings are affected by requirements of Division 01 sections.

1.4. PRECEDENCE OF DOCUMENTS

- .1 In the event of conflict within and between the Contract Documents, the order of priority within specifications and drawings for this project are - from highest to lowest:
 - .1 the Agreement and Definitions between the Owner and the Construction
 - .2 the Defined Terms, Definitions;
 - .3 Supplementary Conditions;
 - .4 the General Conditions;
 - .5 Sections of Division 01 of the specifications;
 - .6 Technical specifications Sections of Divisions 02 through 49 of the specifications.

- .7 Schedules and Keynotes:
 - .1 Material and finishing schedules within the specifications, then;
 - .2 Material and finishing schedules on drawings, then;
 - .3 Keynotes and definitions thereto, then;
- .8 Drawings:
 - .1 Drawings of larger scale shall govern over those of smaller scale of the same date, then;
 - .2 Dimensions shown on drawings shall govern over dimensions scaled from drawings, then;
 - .3 Location of utility outlets indicated on architectural detail drawings takes precedence over positions or mounting heights located on mechanical or electrical Drawings.
- .9 Later dated documents shall govern over earlier documents of the same type.

1.5. SPECIFICATION GRAMMAR

- .1 Specifications are written in the imperative command mode, in an abbreviated form.
- .2 Imperative language of the technical sections is always directed to the Contractor identified as a primary constructor, as sole executor of the Contract, unless specifically noted otherwise.
 - .1 This form of imperative command mode statement requires the primary constructor to perform such action or Work.
 - .2 Perform all requirements of the Contract Documents whether stated imperatively or otherwise.
- .3 Division of the Work among subcontractors, suppliers, or others is solely the prime contractor's responsibility. The Consultant(s) and specification authors assume no responsibility to function or act as an arbiter to establish subcontract scope or limits between sections or divisions of Work.

END OF SECTION

01 21 00 – Allowances

1.0 GENERAL

1.1. RELATED SECTIONS

- .1 Section 01 45 00 – Quality Control.
- .2 This section describes requirements applicable to all Sections within Divisions 02 to 49.

1.2. GENERAL

- .1 Allowances included herein are for items of Work which could not be fully quantified prior to Bidding.
- .2 Expend each allowance as directed by the Consultant. Work covered by allowances shall be performed for such amounts and by such persons as directed by Consultant.
- .3 Funds will be expended by means of Cash Allowance allocations and contingency allowance allocations.
- .4 Progress payments for Work and Products authorized under allowances will be made in accordance with the payment terms set out in the Conditions of the Contract.
- .5 The Contractor shall bid the work involved and submit the Bids received to the Consultant and the Board, for approval
- .6 The Contractor shall submit 3 bids unless directed by the Board.

1.3. CASH ALLOWANCES

- .1 Cash allowances, cover the net cost to the Contractor of services, products, construction machinery and equipment, freight, handling, unloading, storage, installation where indicated, and other authorized expenses incurred in performing the Work. Cash allowances shall not be included by a subcontractor in the amount for their subcontract work.
- .2 Supply only allowances shall include:
 - .1 Net cost of Products.
 - .2 Delivery to Site.
 - .3 Applicable taxes and duties, excluding HST.
- .3 Supply and install allowances shall include:
 - .1 Net cost of Products.
 - .2 Delivery to Site.
 - .3 Unloading, storing, handling or products on site.

- .4 Installation, finishing and commissioning of products.
- .5 Applicable taxes and duties, excluding HST.
- .4 Inspection and testing allowances shall include:
 - .1 Net cost of inspection and testing services.
 - .2 Applicable taxes and duties, excluding HST.
- .5 Other costs related to work covered by cash allowances are not covered by the allowance, but shall be included in the Contract Price.
- .6 Where costs under a cash allowance exceed the amount of the allowance, 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.
- .7 Progress payments on accounts of work authorized under cash allowances shall be included in the monthly certificate for payment.
- .8 Submit, before application for final payment, copies of all invoices and statements from suppliers and subcontractors for work which has been paid from cash allowances.

1.4. ALLOWANCES SCHEDULE

Include in the Bid Price a cash allowance of to address the cost of the following items:

1	Designated Substance Removal. (Additional removal not already identified in the ACM Summary report)	\$ 3,000
2	Removal/Re-routing of existing data closet in Nurse's Room	\$12,000
Total of All Allowances:		\$15,000

END OF SECTION

01 31 00 – Project Managing And Coordination

1.0 GENERAL

1.1. RELATED SECTIONS

- .1 Section 01 32 00 - Construction Progress Documentation.
- .2 Section 01 33 00 - Submittal Procedures.
- .3 Section 01 53 00 – Temporary Construction Facilities
- .4 Section 01 61 00 – Product Requirements
- .5 Section 01 78 10 – Closeout Submittals and Requirements
- .6 This section describes requirements applicable to all Sections within Divisions 02 to 49.

1.2. PROJECT COORDINATION

- .1 Perform coordination of progress schedules, submittals, use of site, temporary utilities, construction facilities and construction Work, with progress of Work of other contractors, under instructions of the Consultant.
- .2 The Contractor shall have total control of the Work and shall effectively direct and supervise the Work so as to ensure conformity with the Contract Documents and within the Contract Time.
- .3 The Contractor shall be solely responsible for the construction means, methods, sequences, and procedures and for coordinating parts of the Work under the contract.
- .4 Coordinate progress of the Work, progress schedules, submittals, use of site, temporary utilities, construction facilities, safety regulations and fire protection, as per authorities having jurisdiction codes.
- .5 The Consultant has the authority to stop the Work:
 - .1 whenever they observe or are made aware of unsafe conditions.
 - .2 whenever it is deemed necessary to protect the interests of the Board,
 - .3 whenever materials or workmanship are in contravention to the Contract Documents.

1.3. SITE SUPERVISOR AND PROJECT MANAGER

- .1 If requested, the Contractor shall provide the Consultant, in writing, the name of the Project Manager and Site Supervisor, and proof of competent experience in similar projects.
- .2 Performance of the Contractors Project Manager and Site Supervisor

- .1 If the Board and or the Consultant become concerned with any of: Site Safety, Project Schedule, or general compliance with the tender documents due to the performance of the Site Supervisor or Project Manager, the Consultant and or the Board will identify the concerns in writing to the Contractor.
 - .2 The Contractor shall respond in writing to the Board and Consultant with a corrective action for each item within 24 hours.
 - .3 If it is found that any of the corrections are not immediately implemented, the Consultant and the Board shall meet with the General Contractor to review the credentials including curriculum vitae and comparable experience of a replacement Site Supervisor and or Project Manager proposed by that Contractor.
 - .4 All outstanding concerns initiating the replacement of the personnel will be immediately addressed to the satisfaction of the Consultant and the Board.
- .3 If the Board and or the Consultant become concerned with site safety, project schedule or general compliance with the tender documents due to the performance of the Site Supervisor or the Project Manager, the Consultant or the Board will issue the concerns in writing to the Contractor. The Contractor shall respond in writing within 24 hours to the Consultant and the Board. If any of the corrections are not immediately implemented, the Consultant or the Board will schedule a meeting with the Consultant, General Contractor and the Board. At this meeting the Contractor will introduce the new Project Manager, and or Site Supervisor and present the Curriculum Vitae for each showing proof of comparable experience in similar projects. The Contractor will then address the outstanding concerns to the satisfaction of the Consultant and the Board.
- .4 The Project Manager, and/or Site Supervisor shall not be replaced by the Contractor without prior written approval from the Board and the Consultant.

1.4. PERMITS

- .1 **The Board will obtain & pay for all building permits, but the Contractor is responsible for all other permits, including electrical inspection and fire alarm verification.**

1.5. CONSTRUCTION DOCUMENTS

- .1 The Consultant will provide the Contractor with PDF copies of both the drawings and the specification and CAD format files of the drawings at no charge to the Contractor. All printing will be at the cost of the Contractor including the AS-BUILT documents.

1.6. PRE-CONSTRUCTION MEETING

- .1 Immediately prior to construction and upon notification by the Consultant of a time and date, the Contractor shall attend the preconstruction meeting at a location as determined by the Consultant, along with authoritative representatives of certain key subcontractors as specifically indicated in the conference notice. Agenda to include following:
 - .1 Appointment of official representative of participants in Work.
 - .2 Project communications procedures
 - .3 Schedule of Work, progress scheduling (including long lead items, cash allowance items) as specified in Section 01 32 00.
 - .4 Schedule of submission of shop drawings, samples, colour chips as specified in Section 01 33 00.
 - .5 Requirements for temporary facilities, washrooms, refuse bin, site sign, offices, storage sheds, utilities, fences as specified in Section 01 53 00.
 - .6 Delivery schedule of specified equipment as specified in Section 01 61 00.
 - .7 Proposed changes, change orders, procedures, approvals required, mark-up percentages permitted, time extensions, overtime, and administrative requirements.
 - .8 Owner furnished products.
 - .9 Record drawings as specified in Section 01 78 10.
 - .10 Maintenance material and data as specified in Section 01 78 10.
 - .11 Take-over procedures, acceptance, and warranties as specified in Section 01 78 10.
 - .12 Monthly progress claims, administrative procedures, photographs, and holdbacks.
 - .13 Appointment of inspection and testing agencies
 - .14 Insurances and transcript of policies.
 - .15 Review Vendor Performance Evaluation for the Contractor and Subcontractors
 - .16 Hot Work Permit Process
 - .17 Security Access, Fire Alarm shutdown procedures
 - .18 Any other items as required by the owner, contractor, or Consultant.

1.7. ON-SITE DOCUMENTS

- .1 Maintain at job site at all times, one copy (written or digital) each of the following:
 - .1 Complete set of Contract drawings.
 - .2 Specifications.
 - .3 All Addenda.

- .4 Site Instructions and Sketches
- .5 Reviewed shop drawings and samples.
- .6 Change Orders and Contemplated Change Orders.
- .7 Other modifications to Contract.
- .8 Site Instructions
- .9 Colour schedule
- .10 Hardware List
- .11 Field test reports.
- .12 Copy of approved Work schedule.
- .13 Manufacturers' installation and application instructions.
- .14 Progress reports and meeting minutes.
- .15 Approved building permit documents.
- .16 Copy of current Ontario Building Code and National Building Code.
- .17 CSA Standard, CGSB Specifications. ASTM Documents and other standards referenced to in the specifications.
- .18 Labour conditions and wage schedules.
- .19 Applicable current editions of municipal regulations and by-laws. Current building codes, complete with addenda bulletins applicable to the Place of the Work.

1.8. SCHEDULES

- .1 Within three weeks following the award of the Contract, submit a detailed, trade by trade progress schedule for the work in a bar chart form acceptable to the Consultant.
- .2 Submit preliminary construction progress schedule as specified in Section 01 32 00 to Consultant coordinated with Consultant's project schedule.
- .3 After review, revise and resubmit schedule to comply with revised project schedule.
- .4 During progress of Work revise and resubmit as directed by the Consultant.
- .5 Provide schedule updates every month with request for Payment, for duration of Contract.

1.9. CONSTRUCTION PROGRESS MEETINGS

- .1 Prior to the commencement of the Work, the Contractor together with the Consultant shall mutually agree to a sequence for holding regular "on site meetings".
- .2 The Contractor will organize site meetings. Ensure persons, whose presence is required, are present and relative information is available to allow meetings to be conducted efficiently.

- .3 Contractor, major subcontractors and consultants involved in Work are to be in attendance.
- .4 Post and forward copies of progress schedules for advice of Subcontractors, Owner and Consultant.
- .5 Notify parties minimum five (5) days prior to meetings.
- .6 Record minutes of meetings and circulate to attending parties and affected parties not in attendance within two (2) days after meeting.
- .7 Agenda to include following:
 - .1 Review, approval of minutes of previous meeting.
 - .2 Review of Work progress since previous meeting.
 - .3 Field observations, problems, conflicts.
 - .4 Problems which impede construction schedule.
 - .5 Review of off-site fabrication delivery schedules.
 - .6 Corrective measures and procedures to regain projected schedule.
 - .7 Revision to construction schedule.
 - .8 Progress schedule, during succeeding work period.
 - .9 Review submittal schedules: expedite as required.
 - .10 Maintenance of quality standards.
 - .11 Review proposed changes for effect on construction schedule and on completion date.
 - .12 Review site security issues.
 - .13 Other business.
- .8 Schedule additional meetings, to expedite progress, should work require it.
- .9 Keep Owner and Consultant informed of progress, of delays and potential delays during all stages of Work. Do everything possible to meet progress schedule
- .10 Schedule and administer pre-installation meetings when specified in sections and when required to coordinate related or affected Work.

1.10. SUBMITTALS

- .1 Prepare and issue submittals to Consultant for review.
- .2 Submit preliminary Shop Drawings, product data and samples for review for compliance with Contract Documents; for field dimensions and clearances, for relation to available space, and for relation to Work of other contracts. After review, revise and resubmit for transmittal to Consultant.
- .3 Submit requests for payment for review, and for transmittal to Consultant.
- .4 Submit requests for interpretation of Contract Documents, and obtain instructions through Consultant.

- .5 Process substitutions through Consultant.
- .6 Process change orders through Consultant.
- .7 Deliver closeout submittals for review and preliminary inspections, for transmittal to Consultant.

1.11. RECORD (AS-BUILT) DOCUMENTS AND SAMPLES

- .1 Procedures for record as-built documents and samples as specified in Section 01 78 10.
- .2 Keep as-built documents and samples available for inspection by the Consultant.

1.12. CLOSEOUT PROCEDURES

- .1 Take-over procedures, acceptance, and warranties as specified Section 01 78 10
- .2 Notify Consultant and Board when Work is considered ready for Substantial Performance.
- .3 Accompany Consultant and Board on preliminary inspection to determine items listed for completion or correction.
- .4 Comply with Consultant's instructions for correction of items of Work listed in executed certificate of Substantial Performance.
- .5 Notify Consultant of instructions for completion of items of Work determined in Consultant's final inspection.

END OF SECTION

01 32 00 – Construction Progress Documentation

1.0 GENERAL

1.1. RELATED SECTIONS

- .1 Section 01 33 00 - Submittal Procedures.
- .2 This section describes requirements applicable to all Sections within Divisions 02 to 49.

1.2. SCHEDULES

- .1 Within seven 7 days following the award of the Contract, submit a detailed cash flow chart broken down on a monthly basis, in a manner acceptable to the Consultant. Cash flow chart shall indicate anticipated Contractor's monthly progress billings from commencement of work until completion.
- .2 Update cash flow chart whenever changes occur to scheduling and in manner and at times satisfactory to Consultant.
- .3 Submit schedule of values at least fourteen (14) days before the first application
- .4 Submit schedules as follows:
 - .1 Submittal Schedule for Shop Drawings and Product Data.
 - .2 Submittal Schedule for Samples.
 - .3 Submittal Schedule for timeliness of Owner-furnished Products.
 - .4 Product Delivery Schedule.
 - .5 Cash Allowance Schedule for acquiring Products and Installation.
 - .6 Shutdown or closure activity.

1.3. CONSTRUCTION PROGRESS SCHEDULING

- .1 Submit initial schedule to the Consultant and the Board in duplicate within seven (7) days after following the award.
- .2 Schedule Format.
 - .1 Prepare schedule in form of a horizontal bar chart.
 - .2 Split horizontally for projected and actual performance.
 - .3 Provide horizontal time scale identifying each Working Day of each week.
- .3 Schedule Submission.
 - .1 Consultant will review schedule and return reviewed copies within five (5) days after receipt.
 - .2 Submit schedules in electronic format, forward to the Consultant and Owner as a pdf. file.

- .3 Resubmit finalized schedule within five (5) days after return of review copy.
- .4 Submit revised progress schedule with each application for payment.
- .5 Distribute copies of revised schedule to:
 - .1 Job site office.
 - .2 Subcontractors.
 - .3 Other concerned parties.
- .6 Instruct Consultant to report to Contractor within ten (10) days, any problems anticipated by timetable shown in schedule.
- .4 Submit revised schedules with Application for Payment, identifying changes since previous version.
- .5 Select either of the following paragraphs to identify the type and format of schedule required.
- .6 Show complete sequence of construction by activity, identifying Work of separate stages and other logically grouped activities. Indicate the early and late start, early and late finish, float dates, and duration.
- .7 Indicate estimated percentage of completion for each item of Work at each submission.
- .8 Indicate submittal dates required for shop drawings, product data, samples, and product delivery dates, including those furnished by Owner and required by Allowances.
- .9 Include dates for commencement and completion of each major element of construction:
 - .1 Site clearing.
 - .2 Site utilities.
 - .3 Foundation Work.
 - .4 Structural framing.
 - .5 Subcontractor Work.
 - .6 Equipment Installations.
 - .7 Finishes.
- .10 Indicate projected percentage of completion of each item as of first day of month.
- .11 Indicate progress of each activity to date of submission schedule.
- .12 Indicate changes occurring since previous submission of schedule:
 - .1 Major changes in scope.
 - .2 Activities modified since previous submission.
 - .3 Revised projections of progress and completion.
 - .4 Other identifiable changes.
- .13 Provide a written report to define:

- .1 Problem areas, anticipated delays, and impact on schedule.
- .2 Corrective action recommended and its effect.
- .3 Effect of changes on schedules of other subcontractors.

1.4. PROGRESS PHOTOGRAPHS

- .1 Digital Photography:
 - .1 Submit electronic copy of progress photographs of project, Digital format, minimum 300 in megapixel resolution.
 - .2 Identification: Name and number of project and date of exposure indicated.
 - .3 Provide both interior and exterior photographs.
 - .4 Number of Viewpoints: Locations of viewpoints determined by Consultant.
 - .5 Frequency: Monthly with progress statement. Provide the required number of pictures to accurately reflect the submitted progress percentage.

1.5. SHOP DRAWING SUBMITTAL SCHEDULE

- .1 Include schedule for submitting shop drawings, product data, samples
- .2 Indicate dates for submitting, review time, resubmission time, and last date for meeting fabrication schedule.
- .3 Include dates when shop drawings and samples will be required for Owner-furnished products.
- .4 Include dates when reviewed submittals will be required from Consultant.
- .5 Provide final signed off copies of the shop drawings in digital format to the Board.

END OF SECTION

01 33 00 – Submittal Procedures

1.0 GENERAL

1.1 RELATED SECTIONS

1. Section 01 32 00 - Construction Progress Documentation.
2. Section 01 78 10 - Closeout Submittals.
3. This section describes requirements applicable to all Sections within Divisions 02 to 49.

1.1 ADMINISTRATIVE

1. Submit to Consultant submittals listed for review. Submit with reasonable promptness and in orderly sequence so as to not cause delay in Work. Failure to submit in ample time is not considered sufficient reason for an extension of Contract Time and no claim for extension by reason of such default will be allowed.
2. Work affected by submittal shall not proceed until review is complete.
3. Present Shop Drawings, product data, samples and mock-ups in Metric (SI) units. Shop drawings containing imperial measurements will be rejected.
4. Where items or information is not manufactured or produced in SI Metric units, converted values within the metric measurement to the next largest imperial size available. Tolerances of .0625 acceptable.
5. Review submittals prior to submission to Consultant. This review represents that necessary requirements have been determined and verified, or will be, and that each submittal has been checked and co-ordinated with requirements of Work and Contract Documents.
6. Submittals not stamped, signed, dated, identified as to specific project, and attesting to their being reviewed will be returned without being examined and shall be considered rejected.
7. Shop drawings which require the approval of a legally constituted authority having jurisdiction shall be submitted by Contractor to such authority for approval. Such shop drawings shall receive final approval of authority having jurisdiction before Consultant's final review.
8. No work, requiring a shop drawing submission, shall be commenced until the submission has received Consultant's final review. Only shop drawings bearing Consultant's review stamp are to be sent and used on the job site.
9. Notify Consultant, in writing at time of submission, identifying deviations from requirements of Contract Documents stating reasons for deviations.

10. Shop drawings shall not contain substituted materials unless such substitutions have been requested in advance and approved by Consultant.
11. Verify field measurements and affected adjacent Work are coordinated.
12. Contractor's responsibility for errors and omissions in submission is not relieved by Consultant's review of submittals.
13. Contractor's responsibility for deviations in submission from requirements of Contract Documents is not relieved by Consultant review.
14. Keep one (1) reviewed copy of each submission on site.

1.2 SHOP DRAWINGS AND PRODUCT DATA

- .1 The term "Shop Drawings" means drawings, diagrams, illustrations, schedules, performance charts, brochures and other data which are to be provided by Contractor to illustrate details of a portion of Work.
- .2 The term "design team" means Consultant and Sub-consultants whether Sub-consultants are employees of Consultant or not, and includes structural, mechanical, electrical, etc.
- .3 Indicate materials, methods of construction and attachment or anchorage, erection diagrams, connections, explanatory notes and other information necessary for completion of Work. Where articles or equipment attach or connect to other articles or equipment, indicate that such items have been coordinated, regardless of Section under which adjacent items will be supplied and installed. Indicate cross references to design drawings and specifications.
- .4 Allow fourteen (14) days for Consultant's review of each submission.
- .5 Adjustments made on Shop Drawings by Consultant are not intended to change Contract Price. If adjustments affect value of Work, state such in writing to Consultant prior to proceeding with Work.
- .6 Make changes in Shop Drawings as Consultant may require, consistent with Contract Documents. When resubmitting, notify Consultant in writing of any revisions other than those requested.
- .7 Accompany submissions with transmittal letter, containing:
 - .1 Date.
 - .2 Project title and number.
 - .3 Contractor's name and address.
 - .4 Identification and quantity of each shop drawing, product data and sample.
 - .5 Other pertinent data.
- .8 Submissions 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, signed by Contractor's authorized representative certifying approval of submissions, verification of field measurements and compliance with Contract Documents.
- .5 Details of appropriate portions of Work as applicable:
 - .1 Fabrication.
 - .2 Layout, showing dimensions, including identified field dimensions, and clearances.
 - .3 Setting or erection details.
 - .4 Capacities.
 - .5 Performance characteristics.
 - .6 Standards.
 - .7 Operating weight.
 - .8 Wiring diagrams.
 - .9 Single line and schematic diagrams.
 - .10 Relationship to other parts of the Work.
- .9 After Consultant's review, distribute copies.
- .10 Submit Shop Drawings in Pdf. format for each requirement requested in specification Sections and as consultant may reasonably request.
- .11 Submit product data sheets or brochures in Pdf. format for requirements requested in specification sections and as requested by Consultant where Shop Drawings will not be prepared due to standardized manufacture of product.
- .12 Delete information not applicable to project.
- .13 Supplement standard information to provide details applicable to project.
- .14 If upon review by Consultant, no errors or omissions are discovered or if only minor corrections are made, the drawings will be stamped as reviewed or reviewed as modified and will be returned. At this point fabrication and installation of Work may proceed. If Shop Drawings are rejected, noted copy will be returned and re-submission of corrected Shop Drawings, through same procedure indicated above, must be performed before fabrication and installation of Work may proceed.
- .15 Signed drawings shall be returned to and retained by Contractor who is then responsible for distribution of copies of corrected shop drawing to appropriate

Subcontractors for appropriate action and to municipal building department for their records of those subjects required by authorities.

- .16 The Consultant's review is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean the Consultant approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor submitting same, and this review shall not relieve the Contractor of his responsibility for meeting the requirements of the Contract Documents. The Contractor is responsible for dimensions to be confirmed and correlated at the job site for information that pertains solely to fabrication processes or to techniques of construction and installation and for coordination of the work of all subtrades.

1.3 SAMPLES

- .1 Submit for review to the Consultant three (3) samples as requested in respective specification Sections.
- .2 Submit samples with identifying labels bearing material or component description, manufacturer's name and brand name, Contractor's name, project name, location in which material or component is to be used, and date.
- .3 Deliver samples prepay any shipping charges involved for delivering samples to destination point and returning to point of origin if required.
- .4 Provide samples of special products, assemblies, or components when so specified.
- .5 No work requiring a sample submission shall commence until submission has received Consultant's final review.
- .6 Notify Consultant in writing, at time of submission of deviations in samples from requirements of Contract Documents.
- .7 Where colour, pattern or texture is criterion, submit full range of samples.
- .8 Adjustments made on samples by Consultant are not intended to change Contract Price. If adjustments affect value of Work, state such in writing to Consultant prior to proceeding with Work.
- .9 Make changes in samples which Consultant may require, consistent with Contract Documents.
- .10 Reviewed and accepted samples will become standard of workmanship and material against which installed Work will be verified.

1.4 MOCK-UP

- .1 Erect mock-ups to Section 01 45 00.

1.5 ` CERTIFICATES AND TRANSCRIPTS

- .1 Immediately after award of Contract, and prior to commencing the work submit the performance bond and the labour and materials payment bond as described in the bid documents.
- .2 Submit transcription of certified true copies of insurance immediately after award of Contract.
- .3 A current WSIB clearance certificate
- .4 The bidder's health and safety policy for the project.
- .5 A copy of the notice of project issued by the ministry of labour for the project
- .6 Building materials, components and elements specified without the use of trade or proprietary names shall meet requirements specified. If requested by Consultant, submit evidence of meeting requirements specified. Evidence shall consist of certification based on tests carried out by an independent testing agency. Certification based on previous tests for same materials, components or elements is acceptable. Certification shall be in form of written test reports prepared by testing agency.

END OF SECTION

01 35 17 – Fire Safety Procedures

1.0 GENERAL

1.1. RELATED SECTIONS

- .1 Section 01 14 00 – Work Restrictions.
- .2 Section 01 31 00 - Project Managing and Coordination.
- .3 Section 01 33 00 - Submittal Procedures.
- .4 Section 01 35 23 – Health and Safety
- .5 This section describes requirements applicable to all Sections within Divisions 02 to 49.
- .6 Appendix 01 35 17A Contractor Hot Work Permit

1.2. FIRE SAFETY PLAN

- .1 Contractors and their personnel will be familiar with this section and its requirements.
- .2 The contractor must take all necessary precautions during the carrying out of the work to prevent the possibility of fire occurring.

1.3. FIRE PROTECTION

- .1 Provide and maintain temporary fire protection equipment during performance of Work required by the governing codes, regulations and bylaws.
- .2 The contractor will, at all times, when welding, brazing and performing any operation with an open flame, combustible adhesives or flammable solvents keep a portable, operable fire extinguisher within 3 meters of the operation.

1.4. HOT WORK

- .1 Take all precautions to Work safely and to provide the necessary protection to persons and property from Hot Work. This includes, but is not limited to Brazing, Cutting, Grinding, Soldering, Thawing Pipe, Torch Applied Roofing and Welding. With all such activity these steps are to be followed:
 - .1 Whenever possible, complete Hot Work in a welding shop or out of doors at the school.
 - .2 Flammable liquids, dust lint and oily deposits to be removed from within 50-ft (15m) of Work. Remove other combustibles where possible. Otherwise protect with fire-resistive tarpaulins or metal shields.

- .3 Explosive atmosphere in area eliminated. Floors swept clean. Combustible floors wet down, covered with damp sand or fire-resistive tarpaulins.
- .4 All wall and floor openings covered. Fire-resistive tarpaulins suspended beneath Work.
- .5 For on-site Work (indoor and out of doors), advise the Head Custodian, Principal, Consultant (if assigned) and Project Coordinator prior to Work being performed, and of related dangers.
- .6 Where the Fire Alarm system is required to be set to stand-by to discourage false alarms from smoke detectors provide a firewatch throughout the building or structure being worked on. NEVER put the fire alarm system in stand-by mode when the building is occupied by staff or students.
- .7 In the event of a fire as a result of the Hot Work, notify the fire department immediately. Report incident to the head custodian, the Consultant, if assigned, and Project Coordinator immediately, whether extinguished or not. Provide a fire incident report to the Board.
- .8 Barriers must be set up to protect staff and students (i.e. pylons, shields, and caution tape) from exposure to arc flash and smoke migration.
- .9 Have all necessary doors, windows and/or drapes closed. Confer with the Head Custodian to shut down all fan systems in the area to reduce or eliminate smoke distribution.
- .10 Provide and keep fire extinguishers handy and in good Working condition. Temporarily cover all smoke detectors in the area during time of Work.
- .11 Provide a fire watch/spot check for several hours after Work is completed. Uncover smoke detectors.
- .12 On new construction, the requirements of the Hot Wok permit may be waived, until such time as either Substantial Completion or Occupancy is granted, whichever comes first.
- .13 On additions to existing buildings, the requirements for Hot Work permits shall remain in place.

1.5. HOT WORK PERMIT

- .1 **A sample Hot Work Permit is attached to the specifications – refer to attached Appendix 01 35 17-A**
- .2 Each permit is valid for seven (7) days only and must be renewed prior to its expiration date
- .3 The contractor must obtain Hot Work Permits from the School Board's representative prior to the start of work.

- .4 The contractor must complete the form as required and must keep the form on site.
- .5 Return each completed form to the School Board's representative on the date of expiration.
- .6 The most current version of the Permit and its requirements shall be used for the purposes of the Work.

1.6. FIRE PROTECTION SYSTEMS

- .1 Any Modifications to Fire Alarm system and its devices including service, additions and changes in device location must be performed only by a Certified Fire Alarm Technician as per the Ontario Fire Code section 1.1, subsection 1.1.5.
- .2 The Contractor will receive from the Board's contact a contact number for the monitoring service and a school system number.
- .3 Bidders are cautioned that the Board will be reimbursed for the cost of false alarms. Refer to Section 01 14 00 Work Restrictions, Para. 1.4.4.
- .4 An approved inspection firm shall verify all new fire alarm devices, in accordance with CSA regulations. Certificate of Verification is required before occupancy.

1.7. FIRE ALARM SHUT-DOWN PROCEDURE

- .1 Plan the operation such that the required work minimizes system down time to the least amount possible. Do not shut the system down or engage silence mode when the building is occupied by students. Only shut the system down when necessary.
- .2 For the purposes of this section, unoccupied shall mean when the school is not occupied by students.
- .3 Wherever possible, shut down only the zone needing work,
- .4 and schedule down time in unoccupied school hours.
- .5 Contractor(s) shall ensure all costs are included in their bid price for work related to the fire alarm system outside of regular hours and/or during unoccupied school hours. This shall include evening and weekend work.
- .6 A fire alarm system must remain active when the building is not occupied by school or contractor's forces and should never be offline overnight.
- .7 Procedure
The following procedure shall be followed when a fire alarm system is completely or partially affected by maintenance, shutdown, bypass, silence, loss of power, or any other nomenclature that affects the proper operation of the complete system.
 - .1 Inform both the principal and head custodian whenever the fire alarm system is to be disabled prior to any partial or whole system shut down. Where

- school staff are not available, ensure that the Project Coordinator and/or area supervisor are informed.
- .2 Ensure that the school or building administration has advised all staff when the fire alarm system is disabled and/or when it is back online. This will include instructions to call 911 if they detect smoke or a fire.
 - .3 Immediately prior to alarm system shutdown and upon restoring the fire alarm system, the person supervising the shutdown must:
 - 1.7.7.1.3.1. obtain the school account number, located on a red decal attached to the fire alarm panel. This number will be formatted as 20-9xxx, with the xxx being the school location code,
 - 1.7.7.1.3.2. contact Direct Detect at 519-741-2494 (the fire alarm monitoring company), to inform them of the state of the fire alarm and the approximate amount of time the fire alarm will be offline. They will require the building name and account number, the contact name, the contractor name as well as any other information they request, and
 - 1.7.7.1.3.3. contact Bestell at 519-741-2494 (the current security monitoring company), to inform them of the state of the fire alarm and the approximate amount of time the fire alarm will be offline. They may require the building name and account number as well as any other information they request.
 - .4 A fire watch, at the Contractor's expense, shall be undertaken by a person with the sole and express purpose of completing the following tasks and in the event of the detection of smoke, fire, or any other emergency, notifying the fire department, and the building occupants. The fire watch patrol shall:
 - 1.7.7.1.4.1. patrol all halls and high-risk areas affected,
 - 1.7.7.1.4.2. have access to a phone and call 911 if they see or detect smoke or fire,
 - 1.7.7.1.4.3. report any other problems they encounter,
 - 1.7.7.1.4.4. notifying the building occupants in the event of an emergency and
 - 1.7.7.1.4.5. remain on patrol until the fire alarm system is reactivated and fully operational.
 - .5 Contact Direct Detect, Bestell, and school administration to inform them that the fire alarm is back online.
 - .6 In the event that a fire alarm system is activated, whether by smoke, fire or accidentally, the system must not be reset until authorized by the Fire

Department (verbally or in person) and the cause of the alarm has been investigated.

1.8. FIRE PROTECTION EQUIPMENT IMPAIRMENT

- .1 Fire Protection Equipment referred to in this section includes sprinkler systems, special fire suppression systems, and kitchen hood suppression systems.
- .2 The Contractor will take all precautions including restrict all Hot Work operations and shut down hazardous processes during all Fire protection equipment impairment.
- .3 Do not shut the Fire protection equipment down unless necessary. Plan the operation required to reduce system impairment time to the least amount possible.
- .4 Wherever possible, shut down only the Fire protection equipment needing Work and schedule this impairment time for unoccupied school hours. Allow for this in your bid pricing.
- .5 Discuss the possible down time with the head custodian and principal prior to any partial or whole system impairment.
- .6 The school administration shall advise all staff of Fire protection equipment shut down. This will include instructions to call 911 if they see a fire and when system is back online
- .7 The Contractor will plan to use temporary protection such as extra extinguishers, charged hose lines and temporary sprinkler protection during all Fire protection equipment impairment.
- .8 If the sprinkler system is restorable, either in whole or in part, the Contractor or subcontractor shall assign someone to restore the system promptly in the event of a fire.
- .9 A fire patrol may need to be established and will include the following at the Contractor's expense:
 - .1 Patrol all halls and high-risk areas affected.
 - .2 Fire patrol shall have access to a phone and call 911 if they see a fire.
 - .3 Report all other problems they encounter.
 - .4 Remain on patrol until the system is back on.
- .10 The Contractor shall inform all sub trades that the Board has a Red Tag Permit System and it shall be used for all Fire protection equipment impairment.
- .11 For ease of use, a Factory Mutual hanging wall kit has been put in place at all Board Fire protection equipment locations. Supplies of Red Tag Permits are provided there.

1.9. FIRE ALARM MODIFICATIONS AND MAINTENANCE

- .1 Very important changes to Ontario Building Code as they relate to the Standard for the Verification of Fire Alarm Systems CAN/ULC-S537-M have taken effect December 24, 1999. (Minister's Ruling 99-BC-01)
 - .1 Clause 5.1; "Addition of conventional field device(s), or modification(s), to existing input circuit(s) or output circuit(s) shall require re-verification of all devices served by those input circuit(s) or output circuit(s)." If one device is added to a zone, the entire zone or in the case of a single zone panel the entire system is to be verified.
 - .2 Clause 5.2 "Addition of input circuit(s) or output circuit(s) to an existing fire alarm system shall require verification of the new circuit(s) in accordance with this standard, and shall also require all previously existing circuit(s) to be tested as follows:
 - .3 TEST: One conventional field device on each circuit shall be operated to confirm activation of all output circuits in accordance with the systems design." Even though no other zones have been touched, one device per input zone is to be tested when the Fire Alarm system is modified.
 - .4 Clause 5.5 "Where a transponder is added to an existing system, the transponder shall be verified in accordance with subsections 3.2, Wiring; and subsection 3.3 Control Units; and with CAN/ULC-S536, Standard for the Inspection and Testing of Fire Alarm Systems as well as re-verification of existing field devices and verification of new conventional field devices." If a new addressable device is added to a system, the new device is to be tested; as well a test must be conducted on all addressable devices on the loop.
 - .5 Clause 5.6 "Where an existing fire alarm system control unit is replaced with a new control unit, it shall be verified in accordance with CAN/ULC-S536, Standard for the Inspection and Testing of Fire Alarm Systems. Replacement of any control panel will require the testing of all existing fire alarm devices.
- .2 The Contractor and subcontractors shall include in the bid price for the above ULC Standards requirements referenced in the Ontario Building Code.

1.10. INSTALLATION AND/OR REPAIR OF ROOFING

- .1 The Contractor will review with the Consultant and the Board's representative of the location of any asphalt kettles and the dates the kettles will be in use. The Contractor, in the course of performing roofing work, will ensure all personnel utilize the following precautions:
 - .1 Use only kettles equipped with thermometers or gauges in good working order.
 - .2 Locate kettles in a safe place outside of the building.
 - .3 Maintain continuous supervision while kettles are in operation and provide metal covers for the kettles to smother any flames in case of fire.
 - .4 All roofing materials stored in locations no closer than 15 meters to any structures.

1.11. FIRE DEPARTMENT ACCESS

- .1 Designated fire routes must be maintained. The Fire Department must be advised of any work that would impede fire apparatus response.

1.12. SMOKING PRECAUTIONS

- .1 Smoking is not permitted anywhere on Board properties. Workers who wish to smoke must leave the property, and not within sight of students. Any worker found to be in contravention of the Ontario Smoke Free Act will be subject to legislated fines.

1.13. FLAMMABLE LIQUIDS

- .1 The handling and storage on site of flammable liquids are to be governed by the current National Fire Code of Canada.
- .2 Flammable liquids such as gasoline, kerosene and naphtha may be kept for ready use in quantities not exceeding 10 imperial gallons provided they are stored in approved safety cans bearing the Underwriter's Laboratory of Canada or Factory Mutual seal of approval.
- .3 Transfer of flammable liquids is prohibited within buildings.
- .4 Transfer of flammable liquids must not be carried out in the vicinity of open flame or any type of heat producing devices.
- .5 Flammable liquids having a flashpoint below 100° F (37.7°C) such as naphtha or gasoline must not be used as solvents or cleaning agents.
- .6 Flammable waste liquids, for disposal, must be stored in approved containers located in a safe ventilated area. Quantities are to be kept to a minimum.

END OF SECTION

01 35 23 – Health And Safety

1.0 GENERAL

1.1. RELATED SECTIONS

- .1 Section 01 31 00 - Project Managing and Coordination.
- .2 Section 01 33 00 - Submittal Procedures.
- .3 Section 01 35 17 – Fire Safety Requirements
- .4 Section 01 35 43 – Hazardous Materials
- .5 Section 01 41 00 – Regulatory Requirements
- .6 Section 01 53 00 – Temporary Construction Facilities
- .7 This section describes requirements applicable to all Sections within Divisions 02 to 49.

1.2. REFERENCES

- .1 Province of Ontario, including requirements for a "Prime Contractor" as defined by the Act.

1.3. SAFETY PLAN

- .1 Develop written site-specific Health and Safety Plan based on hazard assessment prior to commencing any site Work and continue to implement, maintain, and enforce plan until final demobilization from site. The Health and Safety Plan must address project specifications.
- .2 Consultant may respond in writing, where deficiencies or concerns are noted and may request resubmission with correction of deficiencies or concerns.
- .3 Be governed by pertinent safety requirements of Federal or Provincial Governments and of municipal bodies having authority, particularly the Ontario Construction Safety Act, The Occupational Health and Safety Act for Ontario, and regulations of Ontario Ministry of Labour, and work in conjunction with proper safety associations operating under the authority of Ontario Workers' Compensation Act. Protect Owner, Owner's employees, the public and those employed on the Work from bodily injury and to protect adjacent public and private property and Owner's property from damage. Furnish and maintain protection, such as warning signs, tarpaulins, guard rails, barriers, guard lights, night lights, railings around shafts, pits and stairwells, etc. as required. Remove temporary protective measures when no longer required.

1.4. TEMPORARY WORK

- .1 Temporary work requiring engineering proficiency for the design, erection, operation maintenance and removal shall be designed and bear the stamp of the registered professional Engineer or Architect. Detail drawings will be submitted to the Consultant for review prior to commencing any work.
- .2 Before a temporary structure is used, the person responsible for design, or their representative, shall inspect the structure and certify it has been constructed according to their design.

1.5. RESPONSIBILITY

- .1 The "Prime Contractor" according to applicable local jurisdiction, is responsible for health and safety of persons on site, safety of property on site and for protection of persons adjacent to site and environment to the extent that they may be affected by conduct of Work.
- .2 Comply with and enforce compliance by employees with safety requirements of Contract Documents, applicable federal, provincial, territorial and local statutes, regulations, and ordinances, and with site-specific Health and Safety Plan.
- .3 Should any unforeseen or peculiar safety-related factor, hazard, or condition become evident during performance of Work, and follow procedures in place for Employee's Right to Refuse Work in accordance with Acts and Regulations of Health and Safety Act having jurisdiction. Advise the Board and the Consultant verbally and in writing.
- .4 The Contractor shall make their own arrangements for emergency treatment of accidents. Any accidents shall be reported immediately to the Board contact.
- .5 The Contractor agrees to hold the Board harmless of any and all liability of every nature and description, which may be suffered through bodily injuries, involving deaths of any persons, by reasons of negligence of the Contractor, his agents, employees, or his subcontractors.

1.6. SUBMITTALS

- .1 Make submittals in accordance with Section 01 33 00.
- .2 Submit site-specific Health and Safety Plan: Within ten (10) days after the date of Notice to Proceed and prior to commencement of Work. Health and Safety Plan must include:
 - .1 Results of site specific safety hazard assessment.
 - .2 Results of safety and health risk or hazard analysis for site tasks and operation

- .3 Submit one (1) copy of Contractor's authorized representative's work site health and safety inspection reports to Consultant and Owner.
- .4 Submit copies of reports or directions issued by Federal, Provincial and Territorial health and safety inspectors.
- .5 Submit copies of incident and accident reports.
- .6 Submit Material Safety Data Sheets (MSDS) to Consultant.
- .7 Consultant's review of Contractor's final Health and Safety plan should not be construed as approval and does not reduce the Contractor's overall responsibility for construction Health and Safety.
- .8 Medical Surveillance: Where prescribed by legislation, regulation or safety program, submit certification of medical surveillance for site personnel prior to commencement of Work, and submit additional certifications for any new site personnel to Consultant.
- .9 On-site Contingency and Emergency Response Plan: Address standard operating procedures to be implemented during emergency situations.
- .10 File Notice of Project with the Ministry of Labour prior to commencement of Work.

1.7. SAFETY ACTIVITIES

- .1 Perform site specific safety hazard assessment related to the project.
- .2 Schedule and administer Health and Safety meeting with Consultant prior to commencement of Work.
- .3 Perform Work in accordance with Section 01 41 00 - Regulatory Requirements and this section.

1.8. HEALTH AND SAFETY COORDINATOR

- .1 Employ and assign to Work, competent and authorized representative as Health and Safety Coordinator. Health and Safety Coordinator must:
 - .1 have previous experience as a Health & Safety coordinator,
 - .2 have working knowledge of occupational safety and health regulations,
 - .3 be responsible for completing Contractor's Health and Safety Training Sessions and ensuring that personnel not successfully completing required training are not permitted to enter site to perform Work,
 - .4 be responsible for implementing, enforcing daily and monitoring site-specific Contractor's Health and Safety Plan, and
 - .5 be on site during execution of Work.

1.9. POSTING OF DOCUMENTS

- .1 Ensure applicable items, articles, notices and orders are posted in conspicuous location on site in accordance with Acts and Regulations of Health and Safety Act having jurisdiction, and in consultation with Consultant.

1.10. CORRECTION OF NON-COMPLIANCE

- .1 Immediately address health and safety non-compliance issues identified by authority having jurisdiction or by Consultant or by the Board.
- .2 Provide Consultant and/or Board with written report of action taken to correct non-compliance of health and safety issues identified.
- .3 Consultant and or the Board may stop Work if non-compliance of health and safety regulations is not corrected.

1.11. PROJECT/SITE CONDITIONS

- .1 Work at site will involve contact with:
 - .1 Refer to Section 01 35 43 Hazardous Materials

1.12. HAZARDOUS WORK

- .1 Blasting or other use of explosives is not permitted at the place of work.

1.13. WORK STOPPAGE

- .1 Give precedence to safety and health of public and site personnel and protection of environment over cost and schedule considerations for Work.

1.14. LOCKOUT PROCEDURES

- .1 All Work to be done on electrical systems or machinery, where the unexpected switching on of the system or machinery could result in personal injury to a student, staff, employee, or the Contractor's employee, must be done in accordance with the Contractor's standard lockout procedure.
- .2 The Contractor shall provide his/her own locks for the above procedure.
- .3 The lock shall include contact information for the person(s) locking out such devices.

1.15. OVERHEAD LIFTING

- .1 Under no circumstances will a crane or lifting device be used over an occupied space.
- .2 When working adjacent to occupied spaces, ensure a clearance of one (empty) classroom, or a minimum of 10m between any occupied space and the furthest possible reach of the crane.

1.16. WARNING SIGNS AND NOTICES

- .1 Notices shall be posted advising of the hazard but will not be considered a substitute for providing approved protection, separation, and space from the hazard.

1.17. FIRE PROTECTION

- .1 Provide and maintain temporary fire protection equipment during performance of Work required by the governing codes, regulations and bylaws.
- .2 Burning rubbish and construction waste materials is not permitted on site.
- .3 Maintain placed or installed Fire Protection to protect the portions of the Work during construction.

1.18. SCENT-FREE ENVIRONMENT

- .1 The Board requires that, where advised, a building may be deemed scent-free and as such, the wearing of scented products is prohibited.
- .2 Any methods or materials that are found to create negative responses in staff or students shall cease and be removed under advisement of the Consultant and or the Board, until alternate methods can be determined.

END OF SECTION

01 35 43 – Hazardous Materials

1.0 GENERAL

1.1. RELATED SECTIONS

- .1 Section 01 35 23 – Health and Safety Requirements.
- .2 Section 01 41 00 – Regulatory Requirements.
- .3 This section describes requirements applicable to all Sections within Divisions 02 to 49.

1.2. REFERENCES

- .1 Province of Ontario, including requirements for a "Prime Contractor" as defined by the Act.

1.3. ASBESTOS and OTHER REGULATED SUBSTANCES

- .1 An Asbestos Audit, as prepared by MTE Consultants Inc. for this facility, is attached under Appendix 013543 A. A duplicate set is also available in the Facilities Services Departments located in the Education Centre. Unless specifically covered by a Cash Allowance or Contingency Allowance that states otherwise, include in this Contract the required removal of all asbestos containing materials (ACM) to complete the work. No claims for extra costs will be accepted for areas known to contain ACM that are within the scope of this Work.
- .2 Comply with applicable legislation regarding asbestos. Should the Contractor encounter asbestos not noted in the referenced Asbestos Audit that would be disturbed during the course of the Work, they should stop the work in that immediate area and report the same to the Consultant and Board contact.
- .3 In addition, Lead, Mercury, Silica, and Isocyanates are anticipated to be present in existing facilities. New construction, renovations, or alterations require compliance by the Contractor with the applicable legislation.

1.4. PROTOCOL FOR ABATEMENT WORK

- .1 This Protocol establishes the requirements to be followed by all Asbestos Abatement Contractors involved with the Board. It applies to Type 1, Type 2 and Type 3 Operations as stated in the Regulations and applies to emergency and non-emergency work (directly retained or working as a sub-contractor).
- .2 Asbestos Abatement Contractors must maintain appropriate insurance coverage and WISB certification.

- .3 Contractors retained for asbestos abatement work shall use personnel certified by the Ontario College of Trades and must provide the Consultant and Board with proof of asbestos certification (AAS and AAW) for all supervisors / all staff involved.
- .4 School Access
 - .1 During school hours all asbestos contractors are to report to the school office upon arrival. After school hours, ensure card-in / card-out procedures are followed and building security is maintained.
- .5 Communication
 - .1 Establish communication contact list with email and phone numbers that shall include:
 - .1 Principal / Vice Principal
 - .2 Area Facility Manager
 - .3 Head Custodian
 - .4 Environmental Officer
 - .5 Manager of Mechanical, Electrical and Environmental Services
 - .6 Manager of Health Safety & Security
 - .7 Contractor staff
 - .8 Consultant
 - .2 Contact the School Principal / Vice to set up a firm date for the abatement (removal / repair). Schedule to allow at least 72 hours notice ahead of the work.
 - .3 Confirm the date by notifying via email the following:
 - .1 Principal / Vice-principal,
 - .2 Area Facility Manager, and
 - .3 Environmental Officer.
 - .4 Consultant
 - .4 Indicate the date, the start time, the anticipated completion time for the work and the work areas in the school.
 - .5 Identify personnel managing the project and provide current cell numbers for emergency contacts.
 - .6 For emergency work, as requested by Area Supervisors, Facility Managers or Environmental Officer, no notification to the school is required.
 - .7 Additionally, for Type 3 work also contact:
 - .1 Manager of Health, Safety & Security, and
 - .2 Notify the MOL (also for Type 2) where required by regulation.
 - .3 Consultant

- .8 Discussions with other groups, school staff, media and others is discouraged and shall be directed to the Board Communication Officer where warranted.
- .6 Asbestos Operations
 - .1 Emergency work shall be carried out the same day (evening/night) or under exceptional conditions the following day / evening / night. Contractors shall exercise discretion when working in the school to minimize anxiety of staff/school community. Where warranted, contact Area Supervisor, Facility Manager or Environmental Officer to obtain further direction.
 - .2 For non-emergency work, contractor is to assess the work on site and provide a cost estimate to the Environmental Officer, (daniela_budure@wrdsb.on.ca) and Consultant. Some work will require discussion with the Facility Manager or Environmental Officer to assess if additional work should be done as to completely remove all ACM material form the area or similar.
 - .3 Where the MTE report shows ACM requiring repair, remove and re-insulate where required.
 - .4 Before beginning any Type 1, Type 2 or Type 3 Operations, the work area must be secured, doors closed, warning signs added to all entrances, caution tape used in open areas and signs used to restrict access to the work area so as to keep persons not involved in the work from entering in the work area.
 - .5 Provide “Construction” warning signs on solid barriers between the Work and public areas. Install a sufficient number of “asbestos abatement” warning signs behind the barriers, posted to warn of the hazard, and that access to the work area is restricted to persons wearing protective clothing and equipment.
 - .6 The contactor is responsible to disable the mechanical ventilation serving the work area and positively prevent operation using Lock-out / Tag-out devices for each air handling unit /fan. Exercise caution during heating season to ensure areas of the building are maintained above freezing and ensure equipment is turned back on after abatement / air clearance completed.
 - .7 Contractor’s employees shall put on / take off PPE within work area marked by construction signs. No employee shall leave the work area wearing PPE.
 - .8 All dust and waste is to be cleaned up and removed at frequent / regular intervals as the work proceeds and immediately upon completion. No waste bags or similar are to be left behind.

1.5. SUBMITTALS

- .1 Once the abatement is completed, forward a Letter of Completion to the Environmental Officer, (daniela_budure@wrdsb.on.ca). This letter shall be

received no later than 72 hours after completion and shall include any sample results.

- .2 For those projects requiring Air Clearance, ensure this info is sent without delay but in all cases no later than 24 hours after sampling. All Type 3 work must take into account that the initial samples may not pass and the contactor must allow one additional day to re-clean and re-sample before school is to resume operations. For those projects not under the direct supervision of a Environmental Consultant, the contactor is to expedite the air clearance sampling with the lab of their choice and carry these costs.
- .3 Forward Air Clearance results to:
 - .1 Principal / Vice-principal,
 - .2 Facility Manager,
 - .3 Environmental Officer,
 - .4 Manager of Mechanical, Electrical and Environmental Services, and
 - .5 Manager of Health, Safety & Security.
 - .6 Consultant

1.6. ACKNOWLEDGEMENT

- .1 The protocols for asbestos work must be read and understood by Asbestos Contractor.
- .2 Submit a signed copy of the most current copy of PROTOCOL FOR ABATEMENT WORK (ASBESTOS ABATEMENT CONTRACTORS) to the General Contractor, the Consultant, and the Board's Environmental Officer.

END OF SECTION

Appendix 01 35 43A Asbestos Audit Report



This report is provided for tender purposes and must be viewed in colour and in its entirety. An original copy is available at the school office along with annual inspection and abatement letters, if applicable.

Kitchener Waterloo Collegiate Institute

2023 Asbestos Audit Update Report

Project Location:

787 King Street West, Kitchener, ON

Prepared for:

Waterloo Region District School Board
51 Ardelt Avenue, Kitchener, ON

Prepared by:

MTE Consultants
520 Bingemans Centre Drive
Kitchener, ON N2B 3X9

March 22, 2023

MTE File No.: C34532-941

For Tender Purposes





MTE Consultants

520 Bingham Centre Drive, Kitchener, Ontario N2B 3X9

March 22, 2023

MTE File No.: C34532-941

Waterloo Region District School Board
51 Ardelt Avenue
Kitchener, ON N2C 2R5

**RE: 2023 Asbestos Audit Update – Kitchener Waterloo Collegiate Institute (KWCI)
787 King Street West, Kitchener, Ontario**

1.0 Introduction

MTE Consultants Inc. (MTE) was authorized by the Waterloo Region District School Board (WRDSB) to conduct the 2023 Asbestos Audit Update for 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.

- The following rooms:
 - WRDSB Room 017, 063D, 107A, 163, 165, 234, 340B, 907B & 908B– Not accessible with on keys on site and school staff did not have access keys.
- 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 is 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 the building was conducted by MTE on February 28 & March 15, 2023. The three-storey school was constructed in 1881 with additions in 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, & 2011. The inspection did not include areas of post 1990 construction or renovation (where all building finishes have been removed and replaced), as applicable.

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

A summary of the damaged ACM identified at the time of the inspection is provided in **Appendix C**.

The bulk asbestos sample location and analytical summary is provided in **Appendix C**.

4.1 Analytical Results

During this inspection, no samples were collected.

Refer to Appendix C, Table 3 for a detailed summary of the analytical results for each sampled material.

4.2 Removed ACM

A summary of ACM that has been removed since the previous audit/inspection is provided below:

WRDSB Room 171A.

- Pipe fittings and pipe insulation

WRDSB Room 233, 242, 273, 275, & 376.

- Vinyl Floor Tile

4.3 Discovery of Additional ACM

No additional ACM or suspect ACM was identified.

4.4 Damaged ACM

Damaged ACM was identified. Refer to **Appendix C, Tables 1 and 2** for a detailed summary of required actions, specific to each material. At the time of the audit, all other ACM at the building was noted to be in good condition.

5.0 Recommendations

5.1 Remedial

Damaged ACM was identified. Refer to Appendix C, Tables 1 and 2 for a detailed summary of required actions, specific to each material. At the time of the audit, all other ACM at the building was noted to be in good condition.

Type 1 abatement Operations may be conducted internally by trained and qualified WRDSB staff. All other abatement work must be conducted by certified asbestos contractors trained and qualified to conduct the type of work required.

All asbestos work must be conducted by staff and/or 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. Prior to future construction or renovation projects, additional assessments and/or sampling may be required.

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 Plan be implemented and maintained. Asbestos awareness training should be provided for staff that may come in contact with ACM during routine duties or in emergency situations.

ACM that will be disturbed, or will likely be disturbed, during building maintenance, renovations, construction, or demolition activities must be handled and disposed of in accordance with the procedures prescribed by O. Reg. 278/05.

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.

For Tender Purposes

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 Section 0. As such, this report may not deal with all issues potentially applicable to the site and may omit issues that 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 might 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 re-assess the contents of this report.

All of which is respectfully submitted,

MTE Consultants Inc.



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Attach.

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Appendix A

Asbestos Management Database

For Tender Purposes



School Name	Legend:	Notes:
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material SL - Sample Location - Material Sampled VC - Visually Confirmed - Material not sampled, deemed ACM NF - Non-Friable F - Friable	All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions.
Date Built:		
Original: 1881 Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011		Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
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Structure/Additions

	Original Building	Structure	Concrete	Concrete	-	Non ACM	-	-	-	-
	Original Building	Façade	Brick Veneer	Brick and Mortar	-	Non ACM	-	-	-	-
	Original Building	Façade	Concrete	Concrete	-	Non ACM	-	-	-	-
	Original Building	Deck	Concrete	-	-	Non ACM	-	-	-	-
	Original Building	Not Inspected	Not Inspected	Roofing Materials	NF	ACM	Deemed ACM	Sample prior to removal/disturbance	-	-
	Original Building	Window	Interior Frame	Black Sealant	NF	ACM	SL	S09ABC	16-Sep-20	5% Chrysotile
	Original Building	Window	Exterior Frame	Silicon	-	Non ACM	-	-	-	-
	Original Building	Door	Exterior Frame	Silicon	-	Non ACM	-	-	-	-
	Original Building	Floor	Mastic	Black Mastic	NF	ACM	SL	S02ABC	2-Jan-17	1.33% Chrysotile
	1922 Addition	Structure	Concrete	Concrete	-	Non ACM	-	-	-	-
	1922 Addition	Façade	Brick Veneer	Brick and Mortar	-	Non ACM	-	-	-	-
	1922 Addition	Façade	Concrete	Concrete	-	Non ACM	-	-	-	-
	1922 Addition	Deck	Concrete	-	-	Non ACM	-	-	-	-
	1922 Addition	Not Inspected	Not Inspected	Roofing Materials	NF	ACM	Deemed ACM	Sample prior to removal/disturbance	-	-
	1922 Addition	Window	Exterior Frame	Silicon	-	Non ACM	-	-	-	-
	1922 Addition	Window	Interior Frame	Grey Sealant	-	Non ACM	SL	32940-202-S02ABC	2-Apr-13	ND
	1922 Addition	Window	Exterior Frame	White Sealant	NF	ACM	SL	32940-202-S03ABC	2-Apr-13	1.3% Chrysotile
	1922 Addition	Door	Exterior Frame	Grey Sealant	NF	ACM	SL	S01ABC	16-Sep-20	2% Chrysotile
	1922 Addition	Floor	Mastic	Black Mastic	NF	ACM	SL	S01ABC	2-Apr-13	2.3% Chrysotile
	1947 Addition	Structure	Concrete	Concrete	-	Non ACM	-	-	-	-
	1947 Addition	Façade	Brick Veneer	Brick and Mortar	-	Non ACM	-	-	-	-
	1947 Addition	Façade	Concrete	Concrete	-	Non ACM	-	-	-	-
	1947 Addition	Deck	Concrete	-	-	Non ACM	-	-	-	-
	1947 Addition	Not Inspected	Not Inspected	Roofing Materials - Roof R-J - White/Grey Sealant	-	Non ACM	SL	001abc	21-Oct-19	ND
	1947 Addition	Not Inspected	Not Inspected	Roofing Materials - Roof R-J - Black Tar - Flashing	-	Non ACM	SL	002abc	21-Oct-19	ND
	1947 Addition	Not Inspected	Not Inspected	Roofing Materials - Roof R-J - Black Tar	-	Non ACM	SL	003abc	21-Oct-19	ND
	1947 Addition	Not Inspected	Not Inspected	Roofing Materials - Roof R-J - Felts/Tar/Foam	-	Non ACM	SL	004abc	21-Oct-19	ND
	1947 Addition	Not Inspected	Not Inspected	Roofing Materials - Roof R-J - Grey/Brown Sealant	-	Non ACM	SL	004abc	21-Oct-19	ND
	1947 Addition	Not Inspected	Not Inspected	Remaining Roof Sections - Roofing Materials	NF	ACM	Deemed ACM	Sample prior to removal/disturbance	-	-
	1947 Addition	Window	Interior Frame	Black Sealant	NF	ACM	SL	S11ABC	16-Sep-20	5% Chrysotile
	1947 Addition	Window	Interior Frame	Beige Sealant	-	Non ACM	SL	S04ABC	19-Feb-19	ND
	1947 Addition	Window	Exterior Frame	Grey Sealant	-	Non ACM	SL	S03ABC	19-Feb-19	ND
	1947 Addition	Door	Interior Frame	Grey Sealant	NF	ACM	SL	S10ABC	16-Sep-20	1% Chrysotile



School Name	Legend:	Notes: All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions. Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material	
Date Built:	SL - Sample Location - Material Sampled	
Original: 1881	VC - Visually Confirmed - Material not sampled, deemed ACM	
Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F - Friable	

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
	1947 Addition	Door	Exterior Frame	Silicon	-	Non ACM	-	-	-	-
	1947 Addition	Floor	Mastic	Black Mastic	NF	ACM	SL	S03ABC	2-Jan-17	0.75% Chrysotile
	1958 Addition	Structure	Concrete	Concrete	-	Non ACM	-	-	-	-
	1958 Addition	Façade	Brick Veneer	Brick and Mortar	-	Non ACM	-	-	-	-
	1958 Addition	Façade	Concrete	Concrete	-	Non ACM	-	-	-	-
	1958 Addition	Deck	Concrete	-	-	Non ACM	-	-	-	-
	1958 Addition	Not Inspected	Not Inspected	Roofing Materials	NF	ACM	Deemed ACM	Sample prior to removal/disturbance	-	-
	1958 Addition	Window	Interior Frame	Grey Sealant	NF	ACM	SL	S02ABC	19-Feb-19	2% Chrysotile
	1958 Addition	Window	Exterior Frame	Grey Sealant	NF	ACM	SL	S02ABC	19-Feb-19	0.5% Chrysotile
	1958 Addition	Window	Interior Pane	Black Sealant	NF	ACM	SL	S06ABC	16-Sep-20	1% Chrysotile
	1958 Addition	Door	Exterior Frame	Silicon	-	Non ACM	-	-	-	-
	1958 Addition	Floor	Mastic	Black Mastic	NF	ACM	SL	S04ABC	16-Sep-20	1% Chrysotile
	1963 Addition	Structure	Concrete	Concrete	-	Non ACM	-	-	-	-
	1963 Addition	Façade	Brick Veneer	Brick and Mortar	-	Non ACM	-	-	-	-
	1963 Addition	Façade	Concrete	Concrete	-	Non ACM	-	-	-	-
	1963 Addition	Deck	Concrete	-	-	Non ACM	-	-	-	-
	1963 Addition	Not Inspected	Not Inspected	Roofing Materials	NF	ACM	Deemed ACM	Sample prior to removal/disturbance	-	-
	1963 Addition	Window	Interior/Exterior Frame	Grey Sealant	NF	ACM	SL	S14ABC	16-Sep-20	1% Chrysotile
	1963 Addition	Door	Exterior Frame	White Sealant	NF	ACM	SL	S15ABC	16-Sep-20	1% Chrysotile
	1966 Addition	Structure	Concrete	Concrete	-	Non ACM	-	-	-	-
	1966 Addition	Façade	Brick Veneer	Brick and Mortar	-	Non ACM	-	-	-	-
	1966 Addition	Façade	Concrete	Concrete	-	Non ACM	-	-	-	-
	1966 Addition	Deck	Concrete	-	-	Non ACM	-	-	-	-
	1966 Addition	Not Inspected	Not Inspected	Roofing Materials	NF	ACM	Deemed ACM	Sample prior to removal/disturbance	-	-
	1975 Addition	Structure	Concrete	Concrete	-	Non ACM	-	-	-	-
	1975 Addition	Façade	Brick Veneer	Brick and Mortar	-	Non ACM	-	-	-	-
	1975 Addition	Façade	Concrete	Concrete	-	Non ACM	-	-	-	-
	1975 Addition	Deck	Metal Pan	-	-	Non ACM	-	-	-	-
	1975 Addition	Not Inspected	Not Inspected	Roofing Materials	NF	ACM	Deemed ACM	Sample prior to removal/disturbance	-	-
	1975 Addition	Window	Interior Pane	Black Sealant	NF	ACM	SL	S19ABC	16-Sep-20	5% Chrysotile
	1975 Addition	Window	Interior/Exterior Frame	Silicon	-	Non ACM	-	-	-	-
	1975 Addition	Door	Interior/Exterior Frame	Black Sealant	NF	ACM	HM	S19	16-Sep-20	5% Chrysotile
	1975 Addition	Floor	Mastic	Black Mastic	NF	ACM	Deemed ACM	Sample prior to removal/disturbance	-	-
	1984 Addition	Structure	Concrete	Concrete	-	Non ACM	-	-	-	-
	1984 Addition	Façade	Brick Veneer	Brick and Mortar	-	Non ACM	-	-	-	-
	1984 Addition	Façade	Concrete	Concrete	-	Non ACM	-	-	-	-



School Name	Legend:	Notes: All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions. Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material	
Date Built:	SL - Sample Location - Material Sampled	
Original: 1881	VC - Visually Confirmed - Material not sampled, deemed ACM	
Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F- Friable	

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
	1984 Addition	Deck	Metal Pan	-	-	Non ACM	-	-	-	-
	1984 Addition	Not Inspected	Not Inspected	Roofing Materials	NF	ACM	Deemed ACM	Sample prior to removal/disturbance	-	-
	1984 Addition	Window	Interior Pane	Grey Sealant	NF	ACM	SL	S17ABC	16-Sep-20	3% Chrysotile
	1984 Addition	Window	Exterior Frame	White Sealant	-	Non ACM	SL	S16ABC	16-Sep-20	ND
	1984 Addition	Floor	Mastic	Black Mastic	NF	ACM	Deemed ACM	Sample prior to removal/disturbance	-	-
Basement										
010	Boiler Room	Floor	Concrete	-	-	Non ACM	-	-	-	-
010	Boiler Room	Wall	Concrete	-	-	Non ACM	-	-	-	-
010	Boiler Room	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
010	Boiler Room	Blackboard	Resin	Blackboard Storage	NF	ACM	Deemed ACM	Sample prior to removal/disturbance	-	-
011	Storage	Floor	Concrete	-	-	Non ACM	-	-	-	-
011	Storage	Wall	Concrete	-	-	Non ACM	-	-	-	-
011	Storage	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
012	Pump Room	Floor	Concrete	-	-	Non ACM	-	-	-	-
012	Pump Room	Wall	Concrete	-	-	Non ACM	-	-	-	-
012	Pump Room	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
013	Fan Room	Floor	Concrete	-	-	Non ACM	-	-	-	-
013	Fan Room	Wall	Concrete	-	-	Non ACM	-	-	-	-
013	Fan Room	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
014	Storage	Floor	Concrete	-	-	Non ACM	-	-	-	-
014	Storage	Wall	Concrete	-	-	Non ACM	-	-	-	-
014	Storage	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
015	Custodian	Floor	Concrete	-	-	Non ACM	-	-	-	-
015	Custodian	Wall	Concrete	-	-	Non ACM	-	-	-	-
015	Custodian	Wall	Brick	-	-	-	-	-	-	-
015	Custodian	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
016	Corridor	Floor	Concrete	-	-	Non ACM	-	-	-	-
016	Corridor	Wall	Concrete	-	-	Non ACM	-	-	-	-
016	Corridor	Wall	Brick	-	-	-	-	-	-	-
016	Corridor	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
017	Crawlspace	No-Access								
029	Classroom 029	Wall	Concrete	-	-	Non ACM	-	-	-	-
029	Classroom 029	Wall	Plaster	Plaster	-	Non ACM	HM	S22	20-Jan-10	ND
029	Classroom 029	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
029	Classroom 029	Ceiling	Drywall	Drywall Joint Compound	-	Non ACM	-	-	-	-



School Name	Legend:	Notes: All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions. Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material	
Date Built:	SL - Sample Location - Material Sampled	
Original: 1881	VC - Visually Confirmed - Material not sampled, deemed ACM	
Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F - Friable	

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
029	Classroom 029	Floor	Vinyl Floor Tile 9"x9"	Green with White and Green Streaks	NF	ACM	HM	S21	20-Jan-10	0.75% Chrysotile
038	Storage	Wall	Concrete	-	-	Non ACM	-	-	-	-
038	Storage	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
038	Storage	Ceiling	Drywall	Drywall Joint Compound	-	Non ACM	-	-	-	-
038	Storage	Piping	Pipe Fitting	Parged Cement	F	ACM	HM	2551.420.005	5-Jun-91	50-75% Chrysotile
038	Storage	Floor	Vinyl Floor Tile 9"x9"	Black with White and Green	NF	ACM	HM	S10	20-Jan-10	5.9% Chrysotile
039	Up	Floor	Concrete	-	-	Non ACM	-	-	-	-
039	Up	Wall	Concrete	-	-	Non ACM	-	-	-	-
039	Up	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
039B	Rifle Range	Floor	Concrete	-	-	Non ACM	-	-	-	-
039B	Rifle Range	Wall	Concrete	-	-	Non ACM	-	-	-	-
039B	Rifle Range	Ceiling	Ceiling Tile 2'x8'	Wicker Panels	-	Non ACM	-	-	-	-
040	Gym 4	Floor	Wood	-	-	Non ACM	-	-	-	-
040	Gym 4	Wall	Concrete	-	-	Non ACM	-	-	-	-
040	Gym 4	Ceiling	Ceiling Tile 1'x1'	Large and Small Pinhole	-	Non ACM	HM	S31	20-Jan-10	ND
040A	Storage	Floor	Concrete	-	-	Non ACM	-	-	-	-
040A	Storage	Wall	Concrete	-	-	Non ACM	-	-	-	-
040A	Storage	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
040A	Storage	Ceiling	Tar Board	Tar Board	-	Non ACM	SL	S30abc	20-Jan-10	ND
040B	Storage	Floor	Vinyl Floor Tile 9"x9"	Blue with White Streak	NF	ACM	HM	S14	20-Jan-10	1.2% Chrysotile
040B	Storage	Wall	Concrete	-	-	Non ACM	-	-	-	-
040B	Storage	Ceiling	Concrete	Textured Concrete	-	Non ACM	-	-	-	-
041	Storage	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
041	Storage	Wall	Concrete	-	-	Non ACM	-	-	-	-
041	Storage	Ceiling	Drywall	Drywall Joint Compound	-	Non ACM	-	-	-	-
042	Instructor's Office	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
042	Instructor's Office	Wall	Concrete	-	-	Non ACM	-	-	-	-
042	Instructor's Office	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
042A	Shower	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
042A	Shower	Wall	Ceramic	-	-	Non ACM	-	-	-	-
042A	Shower	Wall	Plaster	-	-	Non ACM	-	-	-	-
042A	Shower	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
043	Change Room	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
043	Change Room	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
043	Change Room	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
044	Washroom	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
044	Washroom	Wall	Ceramic Tile	-	-	Non ACM	-	-	-	-



School Name	Legend:	Notes:
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material SL - Sample Location - Material Sampled VC - Visually Confirmed - Material not sampled, deemed ACM NF - Non-Friable F - Friable	All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions.
Date Built:		
Original: 1881		Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.
Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011		

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
044	Washroom	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
044	Washroom	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
045	Storage	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
045	Storage	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
045	Storage	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
046	Showers	Floor	Ceramic Tile	-	-	Non ACM	-	-	-	-
046	Showers	Wall	Ceramic Tile	-	-	Non ACM	-	-	-	-
046	Showers	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
046A	Corridor	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
046A	Corridor	Wall	Plaster	-	-	Non ACM	-	-	-	-
046A	Corridor	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
046B	Office	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
046B	Office	Wall	Plaster	-	-	Non ACM	-	-	-	-
046B	Office	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
046B	Office	Piping	Pipe Insulation	Air Cell	F	ACM	HM	2551.420.001	5-Jun-91	>75% Chrysotile
050	Gym 1 and 2	Floor	Wood	-	-	Non ACM	-	-	-	-
050	Gym 1 and 2	Wall	Concrete	-	-	Non ACM	-	-	-	-
050	Gym 1 and 2	Wall	Plaster	Skim Coat	-	Non ACM	SL	S27abc	20-Jan-10	ND
050	Gym 1 and 2	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
050	Gym 1 and 2	Piping	Pipe	Pipe Insulation	F	ACM	HM	2551.420.005	5-Jun-91	50-75% Chrysotile
050B	Gym 1 and 2 Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
050B	Gym 1 and 2 Stairwell	Wall	Concrete	-	-	Non ACM	-	-	-	-
050B	Gym 1 and 2 Stairwell	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
050C	Gym 1 and 2 Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
050C	Gym 1 and 2 Stairwell	Wall	Concrete	-	-	Non ACM	-	-	-	-
050C	Gym 1 and 2 Stairwell	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
050D	Gym 1 and 2	Floor	Wood	-	-	Non ACM	-	-	-	-
050D	Gym 1 and 2	Wall	Concrete	-	-	Non ACM	-	-	-	-
050D	Gym 1 and 2	Wall	Plaster	Skim Coat	-	Non ACM	SL	S27abc	20-Jan-10	ND
050D	Gym 1 and 2	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
050D	Gym 1 and 2	Piping	Pipe	Pipe Insulation	F	ACM	HM	2551.420.005	5-Jun-91	50-75% Chrysotile
051	Storage	Floor	Concrete	-	-	Non ACM	-	-	-	-
051	Storage	Wall	Concrete	-	-	Non ACM	-	-	-	-
051	Storage	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
052	Washroom	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
052	Washroom	Wall	Ceramic Tile	-	-	Non ACM	-	-	-	-
052	Washroom	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND



School Name	Legend:	Notes: All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions. Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material	
Date Built:	SL - Sample Location - Material Sampled	
Original: 1881	VC - Visually Confirmed - Material not sampled, deemed ACM	
Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F - Friable	

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
052	Washroom	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
053	Change Room	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
053	Change Room	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
053	Change Room	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
054	Showers	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
054	Showers	Wall	Ceramic Tile	-	-	Non ACM	-	-	-	-
054	Showers	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
054	Showers	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
055	Girls Gym	Floor	Wood	-	-	Non ACM	-	-	-	-
055	Girls Gym	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
055	Girls Gym	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
055A	Storage	Floor	Concrete	-	-	Non ACM	-	-	-	-
055A	Storage	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
055A	Storage	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
055B	Instructors Office	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
055B	Instructors Office	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
055B	Instructors Office	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
055C	Washroom	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
055C	Washroom	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
055C	Washroom	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
056	Change Room	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
056	Change Room	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
056	Change Room	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
056	Change Room	Ceiling	Drywall	Drywall Joint Compound	-	Non ACM	-	-	-	-
056A	Storage	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
056A	Storage	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
056A	Storage	Wall	concrete	concrete	-	Non ACM	-	-	-	-
056A	Storage	Ceiling	Drywall	Drywall Joint Compound	-	Non ACM	-	-	-	-
060	Phys Ed Office	Floor	Carpet	-	-	Non ACM	-	-	-	-
060	Phys Ed Office	Floor	Vinyl Floor Tile 12"x12"	Beige with White/Brown Streaks	-	Non ACM	-	-	-	-
060	Phys Ed Office	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
060	Phys Ed Office	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
060A	Phys Ed Office	Floor	Carpet	-	-	Non ACM	-	-	-	-
060A	Phys Ed Office	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
060A	Phys Ed Office	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
060B	Washroom	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
060B	Washroom	Wall	Ceramic Tile	-	-	Non ACM	-	-	-	-



School Name	Legend:	Notes: All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions. Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material	
Date Built:	SL - Sample Location - Material Sampled	
Original: 1881	VC - Visually Confirmed - Material not sampled, deemed ACM	
Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F- Friable	

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
060B	Washroom	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
060B	Washroom	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
060C	Storage	Floor	Concrete	-	-	Non ACM	-	-	-	-
060C	Storage	Wall	Concrete	-	-	Non ACM	-	-	-	-
060C	Storage	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
060D	Storage	Floor	Concrete	-	-	Non ACM	-	-	-	-
060D	Storage	Wall	Concrete	-	-	Non ACM	-	-	-	-
060D	Storage	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
061	-	Floor	Vinyl Floor Tile 12"x12"	White with Brown Streaks	-	Non ACM	SL	S20	20-Jan-10	ND
061	-	Wall	Concrete	-	-	Non ACM	-	-	-	-
061	-	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
061A	Electrical	Floor	Concrete	-	-	Non ACM	-	-	-	-
061A	Electrical	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S13	16-Sep-20	ND
061A	Electrical	Wall	Concrete	-	-	Non ACM	-	-	-	-
061A	Electrical	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
061A	Electrical	Door	Insulation	Fire Door	NF	ACM	Deemed ACM	Sample prior to removal/disturbance	-	-
062	Weight Room	Floor	Vinyl Floor Tile 12"x12"	White with Blue Streaks	-	Non ACM	HM	S04	20-Jan-10	ND
062	Weight Room	Floor	Rubber	-	-	Non ACM	-	-	-	-
062	Weight Room	Wall	Concrete	-	-	Non ACM	-	-	-	-
062	Weight Room	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
062A	Machine Room	Floor	Concrete	-	-	Non ACM	-	-	-	-
062A	Machine Room	Wall	Concrete	-	-	Non ACM	-	-	-	-
062A	Machine Room	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
063	Auto Shop	Floor	Concrete	-	-	Non ACM	-	-	-	-
063	Auto Shop	Wall	Concrete	-	-	Non ACM	-	-	-	-
063	Auto Shop	Wall	Speed Tile	-	-	Non ACM	-	-	-	-
063	Auto Shop	Ceiling	Metal Pan	-	-	Non ACM	-	-	-	-
063A	Storage	Floor	Concrete	-	-	Non ACM	-	-	-	-
063A	Storage	Wall	Concrete	-	-	Non ACM	-	-	-	-
063A	Storage	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
063D	Cyclone	No-Access								
064	Auto Shop	Floor	Concrete	-	-	Non ACM	-	-	-	-
064	Auto Shop	Wall	Concrete	-	-	Non ACM	-	-	-	-
064	Auto Shop	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
064	Auto Shop	Ceiling	Metal Pan	-	-	Non ACM	-	-	-	-
064	Auto Shop	Ceiling	Drywall	Drywall Joint Compound	-	Non ACM	HM	S13	16-Sep-20	ND
064	Auto Shop	Piping	Pipe Fitting	Parged Cement	F	ACM	HM	2551.420.005	5-Jun-91	50-75% Chrysotile



School Name	Legend:	Notes:
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material	All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions.
Date Built:	SL - Sample Location - Material Sampled	
Original: 1881	VC - Visually Confirmed - Material not sampled, deemed ACM	
Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F - Friable	

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
068	Custodian	Floor	Concrete	-	-	Non ACM	-	-	-	-
068	Custodian	Wall	Concrete	-	-	Non ACM	-	-	-	-
068	Custodian	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
068	Custodian	Ceiling	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
069A	Change Room	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
069A	Change Room	Wall	Plaster	-	-	Non ACM	-	-	-	-
069A	Change Room	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
069A	Change Room	Piping	Pipe Insulation	Air Cell	F	ACM	HM	2551.420.001	5-Jun-91	>75% Chrysotile
069B	Showers	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
069B	Showers	Wall	Ceramic Tile	-	-	Non ACM	-	-	-	-
069B	Showers	Wall	Concrete	-	-	Non ACM	-	-	-	-
069B	Showers	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
069C	Showers	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
069C	Showers	Wall	Ceramic Tile	-	-	Non ACM	-	-	-	-
069C	Showers	Wall	Concrete	-	-	Non ACM	-	-	-	-
069C	Showers	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
069D	Washroom	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
069D	Washroom	Wall	Ceramic Tile	-	-	Non ACM	-	-	-	-
069D	Washroom	Wall	Concrete	-	-	Non ACM	-	-	-	-
069D	Washroom	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
069D	Washroom	Piping	Pipe Insulation	Air Cell	F	ACM	HM	2551.420.001	5-Jun-91	>75% Chrysotile
069E	Fitness Room	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
069E	Fitness Room	Floor	Rubber	-	-	Non ACM	-	-	-	-
069E	Fitness Room	Wall	Ceramic Tile	-	-	Non ACM	-	-	-	-
069E	Fitness Room	Wall	Concrete	-	-	Non ACM	-	-	-	-
069E	Fitness Room	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S13	16-Sep-20	ND
069E	Fitness Room	Wall	Speed Tile	-	-	Non ACM	-	-	-	-
069E	Fitness Room	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
069E	Fitness Room	Ceiling	Ceiling Tile 2'x4'	Pinhole (2020)	-	Non ACM	-	-	-	-
070	Classroom 070	Floor	Rubber	-	-	Non ACM	-	-	-	-
070	Classroom 070	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S13	16-Sep-20	ND
070	Classroom 070	Wall	Concrete	-	-	Non ACM	-	-	-	-
070	Classroom 070	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
071	Classroom 071	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
071	Classroom 071	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S13	16-Sep-20	ND
071	Classroom 071	Wall	Concrete	-	-	Non ACM	-	-	-	-
071	Classroom 071	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-



School Name	Legend:	Notes:
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material SL - Sample Location - Material Sampled VC - Visually Confirmed - Material not sampled, deemed ACM NF - Non-Friable F - Friable	All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions.
Date Built:		
Original: 1881 Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011		Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
071	Classroom 071	Ceiling	Ceiling Tile 1'x1'	Pinhole	-	Non ACM	-	-	-	-
072	Horticulture	Floor	Concrete	-	-	Non ACM	-	-	-	-
072	Horticulture	Wall	Speed Tile	-	-	Non ACM	-	-	-	-
072	Horticulture	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
072	Horticulture	Piping	Pipe Fitting	Parged Cement	F	ACM	HM	2551.420.005	5-Jun-91	50-75% Chrysotile
072A	072A	Floor	Concrete	-	-	Non ACM	-	-	-	-
072A	072A	Wall	Speed Tile	-	-	Non ACM	-	-	-	-
072A	072A	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
073	Metal Manufacturing	Floor	Concrete	-	-	Non ACM	-	-	-	-
073	Metal Manufacturing	Wall	Speed Tile	-	-	Non ACM	-	-	-	-
073	Metal Manufacturing	Ceiling	Ceiling Tile 1'x1'	Pinhole	-	Non ACM	-	-	-	-
073A	Classroom 073A	Fire Blanket	Fire Blanket	Fire Blanket	NF	ACM	Deemed ACM	Sample prior to removal/disturbance	-	-
073A	Classroom 073A	Floor	Concrete	-	-	Non ACM	-	-	-	-
073A	Classroom 073A	Wall	Speed Tile	-	-	Non ACM	-	-	-	-
073A	Classroom 073A	Ceiling	Ceiling Tile 1'x1'	Pinhole	-	Non ACM	-	-	-	-
401	Storage	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
401	Storage	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
401	Storage	Piping	Pipe Fitting	Parged Cement	F	ACM	HM	2551.420.005	5-Jun-91	50-75% Chrysotile
401	Storage	Floor	Vinyl Floor Tile 9"x9"	Black with White and Green	NF	ACM	HM	S10	20-Jan-10	5.9% Chrysotile
402	Corridor	Floor	Concrete	-	-	Non ACM	-	-	-	-
402	Corridor	Wall	Concrete	-	-	Non ACM	-	-	-	-
402	Corridor	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
403	Corridor	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
403	Corridor	Wall	Concrete	-	-	Non ACM	-	-	-	-
403	Corridor	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
404A	Corridor	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
404A	Corridor	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
404A	Corridor	Ceiling	Ceiling Tile 2'x4'	Bumpy Pinhole	-	Non ACM	-	-	-	-
405	Corridor	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
405	Corridor	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
405	Corridor	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
405	Corridor	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
406	Corridor	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
406	Corridor	Wall	Concrete	-	-	Non ACM	-	-	-	-
406	Corridor	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
406	Corridor	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
407	Corridor	Floor	Concrete	-	-	Non ACM	-	-	-	-



School Name	Legend:	Notes:
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material SL - Sample Location - Material Sampled VC - Visually Confirmed - Material not sampled, deemed ACM NF - Non-Friable F - Friable	All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions.
Date Built:		
Original: 1881 Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011		Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
407	Corridor	Wall	Concrete	-	-	Non ACM	-	-	-	-
407	Corridor	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
408	Corridor	Floor	Concrete	-	-	Non ACM	-	-	-	-
408	Corridor	Floor	Concrete	-	-	Non ACM	-	-	-	-
408	Corridor	Wall	Concrete	-	-	Non ACM	-	-	-	-
408	Corridor	Wall	Concrete	-	-	Non ACM	-	-	-	-
408	Corridor	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
408	Corridor	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
802	Corridor	Floor	Concrete	-	-	Non ACM	-	-	-	-
802	Corridor	Wall	Concrete	-	-	Non ACM	-	-	-	-
802	Corridor	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
808	Ramp	Floor	Concrete	-	-	Non ACM	-	-	-	-
808	Ramp	Wall	Concrete	-	-	Non ACM	-	-	-	-
808	Ramp	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
809	Gym 1 and 2 Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
809	Gym 1 and 2 Stairwell	Wall	Concrete	-	-	Non ACM	-	-	-	-
809	Gym 1 and 2 Stairwell	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
814	Corridor	Floor	Concrete	-	-	Non ACM	-	-	-	-
814	Corridor	Wall	Concrete	-	-	Non ACM	-	-	-	-
814	Corridor	Ceiling	Metal Pan	-	-	Non ACM	-	-	-	-
901	Storage	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
901	Storage	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
901	Storage	Piping	Pipe Fitting	Parged Cement	F	ACM	HM	2551.420.005	5-Jun-91	50-75% Chrysotile
901	Storage	Floor	Vinyl Floor Tile 9"x9"	Black with White and Green	NF	ACM	HM	S10	20-Jan-10	5.9% Chrysotile
904	UP	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
904	UP	Wall	Concrete	-	-	Non ACM	-	-	-	-
904	UP	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
906	Gym 1 and 2 Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
906	Gym 1 and 2 Stairwell	Wall	Concrete	-	-	Non ACM	-	-	-	-
906	Gym 1 and 2 Stairwell	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
906	Gym 1 and 2 Stairwell	Ceiling	Stucco	-	NF	ACM	SL	S28abc	20-Jan-10	1.1% Chrysotile
906A	Gym 1 and 2 Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
906A	Gym 1 and 2 Stairwell	Wall	Concrete	-	-	Non ACM	-	-	-	-
906A	Gym 1 and 2 Stairwell	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
906A	Gym 1 and 2 Stairwell	Ceiling	Stucco	-	NF	ACM	SL	S28abc	20-Jan-10	1.1% Chrysotile
907	Custodian	Floor	Concrete	-	-	Non ACM	-	-	-	-
907	Custodian	Wall	Concrete	-	-	Non ACM	-	-	-	-



School Name	Legend:	Notes: All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions. Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material	
Date Built:	SL - Sample Location - Material Sampled	
Original: 1881	VC - Visually Confirmed - Material not sampled, deemed ACM	
Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F - Friable	

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
907	Custodian	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
908	Up	Floor	Concrete	-	-	Non ACM	-	-	-	-
908	Up	Wall	Concrete	-	-	Non ACM	-	-	-	-
908	Up	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
912	Gym 1 and 2 Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
912	Gym 1 and 2 Stairwell	Wall	Concrete	-	-	Non ACM	-	-	-	-
912	Gym 1 and 2 Stairwell	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
913	Corridor	Floor	Concrete	-	-	Non ACM	-	-	-	-
913	Corridor	Wall	Concrete	-	-	Non ACM	-	-	-	-
913	Corridor	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
951	Lift	Floor	Concrete	-	-	Non ACM	-	-	-	-
951	Lift	Wall	Concrete	-	-	Non ACM	-	-	-	-
951	Lift	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
952	Elevator	Floor	Vinyl Sheet Flooring	Beige and Tan Cobblestone	-	Non ACM	HM	S12	20-Jan-10	ND
952	Elevator	Wall	Partition	-	-	Non ACM	-	-	-	-
952	Elevator	Ceiling	Partition	-	-	Non ACM	-	-	-	-

For Tender Purposes



School Name	Legend:	Notes:
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material	All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions.
Date Built:	SL - Sample Location - Material Sampled	
Original: 1881	VC - Visually Confirmed - Material not sampled, deemed ACM	Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.
Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F - Friable	

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
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Level 1

101	Art Room	Floor	Concrete	-	-	Non ACM	-	-	-	-
101	Art Room	Wall	Drywall	Drywall Joint Compound	-	Non ACM	SL	S33abc	20-Jan-10	ND
101	Art Room	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
101	Art Room	Ceiling	Steel Deck	-	-	Non ACM	-	-	-	-
101	Art Room	Piping	Pipe Fitting	Parged Cement	F	ACM	HM	2551.420.005	5-Jun-91	50-75% Chrysotile
101	Art Room	Insulation	Fire spray	Fire spray	-	Non ACM	SL	S32abc	20-Jan-10	ND
102	Washroom	Floor	Vinyl Floor Tile 12"x12"	Grey Oatmeal	-	Non ACM	HM	S17	20-Jan-10	ND
102	Washroom	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
102	Washroom	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
102	Washroom	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
103	Radio Room	Floor	Carpet	-	-	Non ACM	-	-	-	-
103	Radio Room	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
103	Radio Room	Ceiling	Ceiling Tile 2'x4'	Pinhole (2020)	-	Non ACM	-	-	-	-
103	Radio Room	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
104	Custodian	Floor	Concrete	-	-	Non ACM	-	-	-	-
104	Custodian	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
104	Custodian	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
106	Kitchen	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
106	Kitchen	Wall	Drywall	Drywall Joint Compound (2006)	-	Non ACM	-	-	-	-
106	Kitchen	Ceiling	Ceiling Tile 2'x4'	Fibreglass	-	Non ACM	-	-	-	-
106	Kitchen	Ceiling	Drywall	Drywall Joint Compound (2006)	-	Non ACM	-	-	-	-
106A	Storage	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
106A	Storage	Wall	Drywall	Drywall Joint Compound (2006)	-	Non ACM	-	-	-	-
106A	Storage	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
106A	Storage	Ceiling	Drywall	Drywall Joint Compound (2006)	-	Non ACM	-	-	-	-
107	Lunch Room	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
107	Lunch Room	Wall	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
107	Lunch Room	Wall	Drywall	Drywall Joint Compound (2006)	-	Non ACM	-	-	-	-
107	Lunch Room	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
107	Lunch Room	Ceiling	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
107A	Vault	No-Access								
110	Music 110	Floor	Carpet	-	-	Non ACM	-	-	-	-
110	Music 110	Wall	Drywall	Drywall Joint Compound (2006)	-	Non ACM	-	-	-	-
110	Music 110	Ceiling	Ceiling Tile 2'x4'	Pinhole (2020)	-	Non ACM	-	-	-	-
110	Music 110	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND



School Name	Legend:	Notes:
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Date Built:		
Original: 1881 Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011		Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
110A	Music Office	Floor	Carpet	-	-	Non ACM	-	-	-	-
110A	Music Office	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
110A	Music Office	Wall	Carpet	-	-	Non ACM	-	-	-	-
110A	Music Office	Ceiling	Ceiling Tile 2'x4'	Pinhole (2020)	-	Non ACM	-	-	-	-
110A	Music Office	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
110B	Music Office	Floor	Carpet	-	-	Non ACM	-	-	-	-
110B	Music Office	Wall	Carpet	-	-	Non ACM	-	-	-	-
110B	Music Office	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
110B	Music Office	Ceiling	Ceiling Tile 2'x4'	Pinhole (2020)	-	Non ACM	-	-	-	-
110B	Music Office	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
110C	Music Office	Floor	Carpet	-	-	Non ACM	-	-	-	-
110C	Music Office	Wall	Carpet	-	-	Non ACM	-	-	-	-
110C	Music Office	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
110C	Music Office	Ceiling	Ceiling Tile 2'x4'	Pinhole (2020)	-	Non ACM	-	-	-	-
110C	Music Office	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
110D	Music Office	Floor	Carpet	-	-	Non ACM	-	-	-	-
110D	Music Office	Wall	Carpet	-	-	Non ACM	-	-	-	-
110D	Music Office	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
110D	Music Office	Ceiling	Ceiling Tile 2'x4'	Pinhole (2020)	-	Non ACM	-	-	-	-
110D	Music Office	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
110E	Music Office	Floor	Carpet	-	-	Non ACM	-	-	-	-
110E	Music Office	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
110E	Music Office	Wall	Carpet	-	-	Non ACM	-	-	-	-
110E	Music Office	Ceiling	Ceiling Tile 2'x4'	Pinhole (2020)	-	Non ACM	-	-	-	-
110E	Music Office	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
113	Fast Forward Office	Floor	Carpet	-	-	Non ACM	-	-	-	-
113	Fast Forward Office	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
113	Fast Forward Office	Ceiling	Ceiling Tile 2'x4'	Pinhole (2020)	-	Non ACM	-	-	-	-
113	Fast Forward Office	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
115	English Office	Floor	Vinyl Floor Tile 12"x12"	Beige Dense Fleck (New)	-	Non ACM	-	-	-	-
115	English Office	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
115	English Office	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
115	English Office	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
115A	Washroom	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
115A	Washroom	Wall	Concrete	-	-	Non ACM	-	-	-	-
115A	Washroom	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
115A	Washroom	Ceiling	Ceiling Tile 2'x4'	Fibreglass	-	Non ACM	-	-	-	-



School Name	Legend:	Notes: All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions. Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material	
Date Built:	SL - Sample Location - Material Sampled	
Original: 1881	VC - Visually Confirmed - Material not sampled, deemed ACM	
Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F- Friable	

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
115A	Washroom	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
115B	Office Entrance	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
115B	Office Entrance	Wall	Drywall	Drywall Joint Compound	-	Non ACM	SL	S02A	15-Sep-20	ND
115B	Office Entrance	Wall	Concrete	-	-	Non ACM	-	-	-	-
115B	Office Entrance	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
115B	Office Entrance	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
116	Upper Gym Storage	Floor	Concrete	-	-	Non ACM	-	-	-	-
116	Upper Gym Storage	Wall	Concrete	-	-	Non ACM	-	-	-	-
116	Upper Gym Storage	Wall	Brick	-	-	Non ACM	-	-	-	-
116	Upper Gym Storage	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
117	Upper Gym Storage	Floor	Concrete	-	-	Non ACM	-	-	-	-
117	Upper Gym Storage	Wall	Concrete	-	-	Non ACM	-	-	-	-
117	Upper Gym Storage	Wall	Brick	-	-	Non ACM	-	-	-	-
117	Upper Gym Storage	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
117A	Upper Gym Storage	Floor	Concrete	-	-	Non ACM	-	-	-	-
117A	Upper Gym Storage	Wall	Concrete	-	-	Non ACM	-	-	-	-
117A	Upper Gym Storage	Wall	Brick	-	-	Non ACM	-	-	-	-
117A	Upper Gym Storage	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
117B	Upper Gym Storage	Floor	Concrete	-	-	Non ACM	-	-	-	-
117B	Upper Gym Storage	Wall	Concrete	-	-	Non ACM	-	-	-	-
117B	Upper Gym Storage	Wall	Brick	-	-	Non ACM	-	-	-	-
117B	Upper Gym Storage	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
118	Storage	Floor	Concrete	-	-	Non ACM	-	-	-	-
118	Storage	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
118	Storage	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
119	Upper Gym Gallery	Piping	Pipe Insulation	Air Cell	F	ACM	HM	2551.420.001	5-Jun-91	>75% Chrysotile
120	Science 120	Floor	Vinyl Floor Tile 12"x12"	Grey Oatmeal	-	Non ACM	HM	S17	20-Jan-10	ND
120	Science 120	Wall	Drywall	Drywall Joint Compound	-	Non ACM	SL	S02A	15-Sep-20	ND
120	Science 120	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
120	Science 120	Wall	Brick	-	-	Non ACM	-	-	-	-
120	Science 120	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
120	Science 120	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
121	Science 121	Floor	Vinyl Floor Tile 12"x12"	Grey Oatmeal	-	Non ACM	HM	S17	20-Jan-10	ND
121	Science 121	Wall	Drywall	Drywall Joint Compound	-	Non ACM	SL	S02C	15-Sep-20	ND
121	Science 121	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
121	Science 121	Wall	Brick	-	-	Non ACM	-	-	-	-
121	Science 121	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-



School Name	Legend:	Notes: All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions. Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material	
Date Built:	SL - Sample Location - Material Sampled	
Original: 1881	VC - Visually Confirmed - Material not sampled, deemed ACM	
Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F - Friable	

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
121	Science 121	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
122	Science 122	Floor	Vinyl Floor Tile 12"x12"	Grey Oatmeal	-	Non ACM	HM	S17	20-Jan-10	ND
122	Science 122	Wall	Drywall	Drywall Joint Compound	-	Non ACM	SL	S02B	15-Sep-20	ND
122	Science 122	Wall	Brick	-	-	Non ACM	-	-	-	-
122	Science 122	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
122	Science 122	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
122	Science 122	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
122	Science 122	Ceiling	Brick	-	-	Non ACM	-	-	-	-
123	Science 123	Floor	Vinyl Floor Tile 12"x12"	Grey Oatmeal	-	Non ACM	HM	S17	20-Jan-10	ND
123	Science 123	Wall	Plaster	Plaster	-	Non ACM	SL	S03A	15-Sep-20	ND
123	Science 123	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
123	Science 123	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
124	Classroom 124	Wall	Plaster	Plaster	-	Non ACM	SL	S03A	15-Sep-20	ND
124	Classroom 124	Wall	Concrete	-	-	Non ACM	-	-	-	-
124	Classroom 124	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
124	Classroom 124	Ceiling	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
124	Classroom 124	Floor	Vinyl Floor Tile 9"x9"	Tan with Brown and White	NF	ACM	HM	S15	20-Jan-10	6.3% Chrysotile
124	Classroom 124	Floor	Vinyl Floor Tile 9"x9"	Brown Camo - Brown and White	NF	ACM	HM	S16	20-Jan-10	6.1% Chrysotile
129	Radio	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal (2016)	-	Non ACM	-	-	-	-
129	Radio	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
129	Radio	Ceiling	Ceiling Tile 2'x4'	Pinhole (2020)	-	Non ACM	-	-	-	-
129	Radio	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
130	Classroom 130	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
130	Classroom 130	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
130	Classroom 130	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
130	Classroom 130	Wall	Brick	-	-	Non ACM	-	-	-	-
130	Classroom 130	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
130	Classroom 130	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
130A	Washroom	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
130A	Washroom	Wall	Ceramic Tile	-	-	Non ACM	-	-	-	-
130A	Washroom	Ceiling	Ceiling Tile 2'x2'	Medium Fissure Random Pinhole	-	Non ACM	SL	S23abc	20-Jan-10	ND
130A	Washroom	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
131	Science 131	Floor	Vinyl Floor Tile 12"x12"	Beige Oatmeal (2020)	-	Non ACM	-	-	-	-
131	Science 131	Wall	Drywall	Drywall Joint Compound	-	Non ACM	SL	S02DE	15-Sep-20	ND
131	Science 131	Wall	Plaster	Plaster	-	Non ACM	SL	S03B	15-Sep-20	ND
131	Science 131	Wall	Brick	-	-	Non ACM	-	-	-	-
131	Science 131	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-



School Name	Legend:	Notes: All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions. Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material	
Date Built:	SL - Sample Location - Material Sampled	
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Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F- Friable	

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
131	Science 131	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
131A	Science Work Room 132	Floor	Vinyl Floor Tile 12"x12"	Grey Oatmeal	-	Non ACM	HM	S17	20-Jan-10	ND
131A	Science Work Room 132	Wall	Brick	-	-	Non ACM	-	-	-	-
131A	Science Work Room 132	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
131A	Science Work Room 132	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
131A	Science Work Room 132	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
131A	Science Work Room 132	Ceiling	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
132	Science Work Room 132	Floor	Vinyl Floor Tile 12"x12"	Grey Oatmeal	-	Non ACM	HM	S17	20-Jan-10	ND
132	Science Work Room 132	Wall	Concrete	-	-	Non ACM	-	-	-	-
132	Science Work Room 132	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
132	Science Work Room 132	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
132	Science Work Room 132	Ceiling	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
133	Classroom 133	Floor	Vinyl Floor Tile 12"x12"	Grey Oatmeal	-	Non ACM	HM	S17	20-Jan-10	ND
133	Classroom 133	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
133	Classroom 133	Wall	Concrete	-	-	Non ACM	-	-	-	-
133	Classroom 133	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
133	Classroom 133	Ceiling	Drywall	Drywall Joint Compound	-	Non ACM	HM	S05	16-Sep-20	ND
142	Office 142	Wall	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
142	Office 142	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
142	Office 142	Ceiling	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
142	Office 142	Floor	Vinyl Floor Tile 9"x9"	Grey with White Streaks	NF	ACM	SL	S02ABC	2-Jan-17	2.08% Chrysotile
143	Resource Beh. 143	Wall	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
143	Resource Beh. 143	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S05	16-Sep-20	ND
143	Resource Beh. 143	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
143	Resource Beh. 143	Ceiling	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
143	Resource Beh. 143	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
143A	Resource Beh. 143	Wall	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
143A	Resource Beh. 143	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S05	16-Sep-20	ND
143A	Resource Beh. 143	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
143A	Resource Beh. 143	Ceiling	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
143A	Resource Beh. 143	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
143B	Resource Beh. 143	Wall	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
143B	Resource Beh. 143	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S05	16-Sep-20	ND
143B	Resource Beh. 143	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
143B	Resource Beh. 143	Ceiling	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
143B	Resource Beh. 143	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
160	Tuck Shop	Floor	Vinyl Floor Tile 12"x12"	Multi-colour (New)	-	Non ACM	-	-	-	-



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Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F - Friable	

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
160	Tuck Shop	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
160	Tuck Shop	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
160	Tuck Shop	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
150A	Cafeteria	Floor	Vinyl Floor Tile 12"x12"	Multi-colour (New)	-	Non ACM	-	-	-	-
150A	Cafeteria	Wall	Drywall	Drywall Joint Compound (2006)	-	Non ACM	-	-	-	-
150A	Cafeteria	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
150A	Cafeteria	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
150A	Cafeteria	Ceiling	Drywall	Drywall Joint Compound (2006)	-	Non ACM	-	-	-	-
151	Mechanical	Floor	Concrete	-	-	Non ACM	-	-	-	-
151	Mechanical	Wall	Concrete	-	-	Non ACM	-	-	-	-
151	Mechanical	Ceiling	Drywall	Drywall Joint Compound	-	Non ACM	HM	S12	16-Sep-20	ND
151	Mechanical	Piping	Pipe Fitting	Parged Cement	F	ACM	HM	2551.420.005	5-Jun-91	50-75% Chrysotile
152	Office 152	Floor	Concrete	-	-	Non ACM	-	-	-	-
152	Office 152	Floor	Carpet	-	-	Non ACM	-	-	-	-
152	Office 152	Wall	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
152	Office 152	Wall	Concrete	-	-	Non ACM	-	-	-	-
152	Office 152	Ceiling	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
152	Office 152	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
152A	Office	Floor	Concrete	-	-	Non ACM	-	-	-	-
152A	Office	Floor	Carpet	-	-	Non ACM	-	-	-	-
152A	Office	Wall	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
152A	Office	Wall	Concrete	-	-	Non ACM	-	-	-	-
152A	Office	Ceiling	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
152A	Office	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
153	Resource With. 153	Wall	Drywall	Drywall Joint Compound	NF	ACM	SL	S07C	15-Sep-20	1% Chrysotile
153	Resource With. 153	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
153	Resource With. 153	Ceiling	Drywall	Drywall Joint Compound	NF	ACM	HM	S07	15-Sep-20	1% Chrysotile
153	Resource With. 153	Floor	Vinyl Floor Tile 12"x12"	White with Brown Streak	-	Non ACM	HM	S20	20-Jan-10	ND
153A	Storage	Floor	Concrete	-	-	Non ACM	-	-	-	-
153A	Storage	Wall	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
153A	Storage	Wall	Concrete Block	-	-	Non ACM	-	-	-	-
153A	Storage	Ceiling	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
153A	Storage	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
154	Classroom 154	Floor	Concrete	-	-	Non ACM	-	-	-	-
154	Classroom 154	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S18	16-Sep-20	ND
154	Classroom 154	Wall	Concrete	-	-	Non ACM	-	-	-	-
154	Classroom 154	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-



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154	Classroom 154	Ceiling	Drywall	Drywall Joint Compound	-	Non ACM	HM	S18	16-Sep-20	ND
154A	Washroom	Floor	Concrete	-	-	Non ACM	-	-	-	-
154A	Washroom	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S18	16-Sep-20	ND
154A	Washroom	Wall	Concrete	-	-	Non ACM	-	-	-	-
154A	Washroom	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
154A	Washroom	Ceiling	Drywall	Drywall Joint Compound	-	Non ACM	HM	S18	16-Sep-20	ND
154B	Storage	Floor	Vinyl Sheet Flooring	Beige and Tan Cobblestone	-	Non ACM	HM	S12	20-Jan-10	ND
154B	Storage	Wall	Concrete	-	-	Non ACM	-	-	-	-
154B	Storage	Ceiling	Insulation	Fire spray	-	Non ACM	HM	S24	20-Jan-10	ND
154B	Storage	Piping	Pipe Insulation	Air Cell	F	ACM	HM	2551.420.001	5-Jun-91	>75% Chrysotile
154B	Storage	Ceiling	Metal Pan	-	-	Non ACM	-	-	-	-
155	Classroom 155	Floor	Vinyl Sheet Flooring	Beige and Tan Cobblestone	-	Non ACM	HM	S12	20-Jan-10	ND
155	Classroom 155	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S18	16-Sep-20	ND
155	Classroom 155	Wall	Concrete	-	-	Non ACM	-	-	-	-
155	Classroom 155	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
155	Classroom 155	Ceiling	Drywall	Drywall Joint Compound	-	Non ACM	HM	S18	16-Sep-20	ND
155A	Office	Floor	Vinyl Sheet Flooring	Beige and Tan Cobblestone	-	Non ACM	HM	S12	20-Jan-10	ND
155A	Office	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S18	16-Sep-20	ND
155A	Office	Wall	Concrete	-	-	Non ACM	-	-	-	-
155A	Office	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
155A	Office	Ceiling	Drywall	Drywall Joint Compound	-	Non ACM	HM	S18	16-Sep-20	ND
155B	Office	Floor	Vinyl Sheet Flooring	Beige and Tan Cobblestone	-	Non ACM	HM	S12	20-Jan-10	ND
155B	Office	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S18	16-Sep-20	ND
155B	Office	Wall	Concrete	-	-	Non ACM	-	-	-	-
155B	Office	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
155B	Office	Ceiling	Drywall	Drywall Joint Compound	-	Non ACM	HM	S18	16-Sep-20	ND
161	Tech Office 164	Floor	Vinyl Floor Tile 12"x12"	White with Blue Streaks	-	Non ACM	HM	S04	20-Jan-10	ND
161	Tech Office 164	Wall	Concrete	-	-	Non ACM	-	-	-	-
161	Tech Office 164	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
161	Tech Office 164	Piping	Pipe Insulation	Air Cell	F	ACM	HM	2551.420.001	5-Jun-91	>75% Chrysotile
161	Tech Office 164	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
162	Construction Tech 165	Floor	Concrete	-	-	Non ACM	-	-	-	-
162	Construction Tech 165	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S12	16-Sep-20	ND
162	Construction Tech 165	Wall	Concrete	-	-	Non ACM	-	-	-	-
162	Construction Tech 165	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
162	Construction Tech 165	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
162	Construction Tech 165	Piping	Pipe Insulation	Air Cell	F	ACM	HM	2551.420.001	5-Jun-91	>75% Chrysotile



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WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
163	Fan Room	No-Access								
165	Fan Room	No-Access								
169	Custodian	Floor	Vinyl Floor Tile 12"x12"	White with Blue Streaks	-	Non ACM	HM	S04	20-Jan-10	ND
169	Custodian	Wall	Concrete	-	-	Non ACM	-	-	-	-
169	Custodian	Ceiling	Drywall	Drywall Joint Compound	-	Non ACM	HM	S12	16-Sep-20	ND
170	Lifeskills Classroom 129A	Floor	Vinyl Floor Tile 12"x12"	White with Blue Streaks	-	Non ACM	HM	S04	20-Jan-10	ND
170	Lifeskills Classroom 129A	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
170	Lifeskills Classroom 129A	Wall	Concrete	-	-	Non ACM	-	-	-	-
170	Lifeskills Classroom 129A	Wall	Drywall	Drywall Joint Compound	-	Non ACM	SL	S13E	16-Sep-20	ND
170	Lifeskills Classroom 129A	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
170	Lifeskills Classroom 129A	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
171	Lifeskills Classroom 129	Floor	Vinyl Floor Tile 12"x12"	White with Blue Streaks	-	Non ACM	HM	S04	20-Jan-10	ND
171	Lifeskills Classroom 129	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
171	Lifeskills Classroom 129	Wall	Concrete	-	-	Non ACM	-	-	-	-
171	Lifeskills Classroom 129	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S13E	16-Sep-20	ND
171	Lifeskills Classroom 129	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
171	Lifeskills Classroom 129	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
171A	Lifeskills Kitchen	Floor	Vinyl Floor Tile 12"x12"	White with Blue Streaks	-	Non ACM	HM	S04	20-Jan-10	ND
171A	Lifeskills Kitchen	Wall	Concrete	-	-	Non ACM	-	-	-	-
171A	Lifeskills Kitchen	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
172	Computer Engineering 170	Floor	Vinyl Floor Tile 12"x12"	White with Blue Streaks	-	Non ACM	HM	S04	20-Jan-10	ND
172	Computer Engineering 170	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
172	Computer Engineering 170	Wall	Concrete	-	-	Non ACM	-	-	-	-
172	Computer Engineering 170	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
172	Computer Engineering 170	Piping	Pipe Fitting	Parged Cement	F	ACM	HM	2551.420.005	5-Jun-91	50-75% Chrysotile
172	Computer Engineering 170	Piping	Pipe Insulation	Air Cell	F	ACM	HM	2551.420.001	5-Jun-91	>75% Chrysotile
173	Lounge 1B	Floor	Vinyl Floor Tile 12"x12"	White with Blue Streaks	-	Non ACM	HM	S04	20-Jan-10	ND
173	Lounge 1B	Wall	Drywall	Drywall Joint Compound	-	Non ACM	SL	S13E	16-Sep-20	ND
173	Lounge 1B	Wall	Concrete	-	-	Non ACM	-	-	-	-
173	Lounge 1B	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
173	Lounge 1B	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
174	Hospitality 171	Floor	Vinyl Sheet Flooring	Grey (New)	-	-	-	-	-	-
174	Hospitality 171	Wall	Concrete	-	-	Non ACM	-	-	-	-
174	Hospitality 171	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
174	Hospitality 171	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
174A	Kitchen Cleanup	Floor	Vinyl Sheet Flooring	Grey (New)	-	-	-	-	-	-
174A	Kitchen Cleanup	Wall	Concrete	-	-	Non ACM	-	-	-	-



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174A	Kitchen Cleanup	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
174A	Kitchen Cleanup	Ceiling	Ceiling Tile 2'x4'	Textured Pinhole (2020)	-	Non ACM	-	-	-	-
174A	Kitchen Cleanup	Ceiling	Drywall	Drywall Joint Compound	-	Non ACM	SL	S13E	16-Sep-20	ND
174A	Kitchen Cleanup	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
174B	Office 173	Floor	Vinyl Floor Tile 12"x12"	White with Blue Streaks	-	Non ACM	HM	S04	20-Jan-10	ND
174B	Office 173	Wall	Drywall	Drywall Joint Compound	-	Non ACM	SL	S13E	16-Sep-20	ND
174B	Office 173	Wall	Concrete	-	-	Non ACM	-	-	-	-
174B	Office 173	Ceiling	Ceiling Tile 2'x4'	Textured Pinhole (2020)	-	Non ACM	-	-	-	-
174C	Fridge	No-Access								
174D	Fridge	No-Access								
174E	Fridge	No-Access								
175	Wood Shop 175	Floor	Concrete	-	-	Non ACM	-	-	-	-
175	Wood Shop 175	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S12	16-Sep-20	ND
175	Wood Shop 175	Wall	Concrete	-	-	Non ACM	-	-	-	-
175	Wood Shop 175	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
175	Wood Shop 175	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
175	Wood Shop 175	Piping	Pipe Insulation	Air Cell	F	ACM	HM	2551.420.001	5-Jun-91	>75% Chrysotile
175A	Wood Storage	Floor	Concrete	-	-	Non ACM	-	-	-	-
175A	Wood Storage	Wall	Concrete	-	-	Non ACM	-	-	-	-
175A	Wood Storage	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
176	Wood Working	Floor	Vinyl Floor Tile 12"x12"	Grey Dense Fleck (New)	-	Non ACM	-	-	-	-
176	Wood Working	Wall	Concrete	-	-	Non ACM	-	-	-	-
176	Wood Working	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
176	Wood Working	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S12	16-Sep-20	ND
176	Wood Working	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
176	Wood Working	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
176A	Wood Working	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
176A	Wood Working	Wall	Concrete	-	-	Non ACM	-	-	-	-
176A	Wood Working	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
176A	Wood Working	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S12	16-Sep-20	ND
176A	Wood Working	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
176A	Wood Working	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
177	Washroom	Floor	Vinyl Floor Tile 12"x12"	White with Blue Streaks	-	Non ACM	HM	S04	20-Jan-10	ND
177	Washroom	Wall	Concrete	-	-	Non ACM	-	-	-	-
177	Washroom	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
177	Washroom	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
177	Washroom	Ceiling	Ceiling Tile 2'x4'	Textured Pinhole (2020)	-	Non ACM	-	-	-	-



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Date Built:	SL - Sample Location - Material Sampled	
Original: 1881	VC - Visually Confirmed - Material not sampled, deemed ACM	
Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F - Friable	

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
177	Washroom	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
411	Corridor	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
411	Corridor	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
411	Corridor	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
411	Corridor	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
411A	Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
411A	Stairwell	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S05	16-Sep-20	ND
411A	Stairwell	Wall	Concrete	-	-	Non ACM	-	-	-	-
411A	Stairwell	Ceiling	Drywall	Drywall Joint Compound	-	Non ACM	HM	S05	16-Sep-20	ND
411B	Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
411B	Stairwell	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S05	16-Sep-20	ND
411B	Stairwell	Wall	Concrete	-	-	Non ACM	-	-	-	-
411B	Stairwell	Ceiling	Drywall	Drywall Joint Compound	-	Non ACM	HM	S05	16-Sep-20	ND
412	Corridor	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
412	Corridor	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
412	Corridor	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
412	Corridor	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
412A	Fast Forward Office	Floor	Carpet	-	-	Non ACM	-	-	-	-
412A	Fast Forward Office	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
412A	Fast Forward Office	Ceiling	Ceiling Tile 2'x4'	Pinhole (2020)	-	Non ACM	-	-	-	-
412A	Fast Forward Office	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
413	Corridor	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
413	Corridor	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
413	Corridor	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S05	16-Sep-20	ND
413	Corridor	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
413	Corridor	Ceiling	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
413A	Corridor	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
413A	Corridor	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
413A	Corridor	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
413A	Corridor	Ceiling	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
413B	Corridor	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
413B	Corridor	Wall	Plaster	Plaster	-	Non ACM	SL	S08A	16-Sep-20	ND
413B	Corridor	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
413B	Corridor	Ceiling	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
413C	Corridor	Floor	Vinyl Sheet Flooring	Grey (2020)	-	Non ACM	-	-	-	-
413C	Corridor	Wall	Drywall	Drywall Joint Compound	NF	ACM	SL	S07AB	15-Sep-20	1% Chrysotile
413C	Corridor	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-



School Name	Legend:	Notes:
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material SL - Sample Location - Material Sampled VC - Visually Confirmed - Material not sampled, deemed ACM NF - Non-Friable F - Friable	All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions.
Date Built:		
Original: 1881 Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011		Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
413C	Corridor	Ceiling	Drywall	Drywall Joint Compound	NF	ACM	HM	S07	15-Sep-20	1% Chrysotile
415	Corridor	Floor	Vinyl Sheet Flooring	Beige and Tan Cobblestone	NF	Non ACM	HM	S12	20-Jan-10	ND
415	Corridor	Wall	Concrete Block	-	-	Non ACM	-	-	-	-
415	Corridor	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
415	Corridor	Ceiling	Ceiling Tile 2'x4'	Long Fissure Random Pinhole	NF	ACM	SL	S34abc	20-Jan-10	2.7% Amosite
415	Corridor	Ceiling	Hard Texture Coat	-	-	Non ACM	SL	S01ABC	2-Jan-17	ND
415	Corridor	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
417	Corridor	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
417	Corridor	Floor	Ceramic	-	-	Non ACM	-	-	-	-
417	Corridor	Wall	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
417	Corridor	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
417	Corridor	Ceiling	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
418	Corridor	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
418	Corridor	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
418	Corridor	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
418	Corridor	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
419	Foyer	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
419	Foyer	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
419	Foyer	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
419	Foyer	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
419A	Construction Tech 165	Floor	Wood	-	-	Non ACM	-	-	-	-
419A	Construction Tech 165	Wall	Concrete	-	-	Non ACM	-	-	-	-
419A	Construction Tech 165	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
419A	Construction Tech 165	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
501	Storage	Floor	Concrete	-	-	Non ACM	-	-	-	-
501	Storage	Wall	Drywall	Drywall Joint Compound	-	Non ACM	SL	S33abc	20-Jan-10	ND
501	Storage	Ceiling	Ceiling Tile 2'x4'	Long Fissure Random Pinhole	NF	ACM	SL	S34abc	20-Jan-10	2.7% Amosite
501	Storage	Ceiling	Steel Deck	-	-	Non ACM	-	-	-	-
502	Storage	Floor	Concrete	-	-	Non ACM	-	-	-	-
502	Storage	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S33	20-Jan-10	ND
502	Storage	Ceiling	Drywall	Drywall Joint Compound	-	Non ACM	HM	S33	20-Jan-10	ND
503	Art Storage	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S33	20-Jan-10	ND
503	Art Storage	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
503	Art Storage	Ceiling	Steel Deck	-	-	Non ACM	-	-	-	-
503	Art Storage	Floor	Vinyl Floor Tile 12"x12"	Grey with White and Brown Streaks	NF	ACM	HM	S02	20-Jan-10	2.1% Chrysotile
504	Art Office	Floor	Carpet	-	-	Non ACM	-	-	-	-
504	Art Office	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S33	20-Jan-10	ND



School Name	Legend:	Notes: All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions. Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material	
Date Built:	SL - Sample Location - Material Sampled	
Original: 1881	VC - Visually Confirmed - Material not sampled, deemed ACM	
Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F- Friable	

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
504	Art Office	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
504	Art Office	Ceiling	Steel Deck	-	-	Non ACM	-	-	-	-
901	Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
901	Stairwell	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S05	16-Sep-20	ND
901	Stairwell	Wall	Concrete	-	-	Non ACM	-	-	-	-
901	Stairwell	Ceiling	Drywall	Drywall Joint Compound	-	Non ACM	HM	S05	16-Sep-20	ND
902	Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
902	Stairwell	Wall	Concrete	-	-	Non ACM	-	-	-	-
902	Stairwell	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
902	Stairwell	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
903	Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
903	Stairwell	Wall	Concrete	-	-	Non ACM	-	-	-	-
903	Stairwell	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
903	Stairwell	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
903A	Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
903A	Stairwell	Wall	Concrete	-	-	Non ACM	-	-	-	-
903A	Stairwell	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
903A	Stairwell	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
903B	Foyer	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
903B	Foyer	Wall	Concrete	-	-	Non ACM	-	-	-	-
903B	Foyer	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
903B	Foyer	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
906	Gym 1 and 2 Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
906	Gym 1 and 2 Stairwell	Wall	Concrete	-	-	Non ACM	-	-	-	-
906	Gym 1 and 2 Stairwell	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
908	Foyer	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
908	Foyer	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
908	Foyer	Wall	Brick	-	-	Non ACM	-	-	-	-
908	Foyer	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
908	Foyer	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
911	Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
911	Stairwell	Wall	Concrete	-	-	Non ACM	-	-	-	-
911	Stairwell	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
911	Stairwell	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
912	Gym 1 and 2 Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
912	Gym 1 and 2 Stairwell	Wall	Concrete	-	-	Non ACM	-	-	-	-
912	Gym 1 and 2 Stairwell	Ceiling	Concrete	-	-	Non ACM	-	-	-	-



School Name	Legend:	Notes: All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions. Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material	
Date Built:	SL - Sample Location - Material Sampled	
Original: 1881	VC - Visually Confirmed - Material not sampled, deemed ACM	
Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable	
	F - Friable	

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
914	Stairwell	Floor	Concrete	-	-	Non ACM	-	-	-	-
914	Stairwell	Wall	Concrete	-	-	Non ACM	-	-	-	-
914	Stairwell	Ceiling	Ceiling Tile 2'x4'	Long Fissure Random Pinhole	NF	ACM	HM	S34	20-Jan-10	2.7% Amosite
914	Stairwell	Ceiling	Metal Pan	-	-	Non ACM	-	-	-	-
915	Stairwell	Floor	Concrete	-	-	Non ACM	-	-	-	-
915	Stairwell	Wall	Concrete	-	-	Non ACM	-	-	-	-
915	Stairwell	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
951	Lift	Floor	Concrete	-	-	Non ACM	-	-	-	-
951	Lift	Wall	Concrete	-	-	Non ACM	-	-	-	-
951	Lift	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
952	Elevator	Floor	Vinyl Sheet Flooring	Beige and Tan Cobblestone	-	Non ACM	HM	S12	20-Jan-10	ND
952	Elevator	Wall	Partition	-	-	Non ACM	-	-	-	-
952	Elevator	Ceiling	Partition	-	-	Non ACM	-	-	-	-
Level 2										
220	Lab	Floor	Vinyl Floor Tile 12"x12"	Grey Oatmeal	-	Non ACM	HM	S17	20-Jan-10	ND
220	Lab	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
220	Lab	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
220	Lab	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
220	Lab	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
220A	Storage	Floor	Vinyl Floor Tile 12"x12"	Grey Oatmeal	-	Non ACM	HM	S17	20-Jan-10	ND
220A	Storage	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
220A	Storage	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
220A	Storage	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
220A	Storage	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
221	Storage	Floor	Vinyl Floor Tile 12"x12"	Grey Oatmeal	-	Non ACM	HM	S17	20-Jan-10	ND
221	Storage	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
221	Storage	Wall	Concrete	-	-	Non ACM	-	-	-	-
221	Storage	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
221	Storage	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
221	Storage	Piping	Pipe Fitting	Parged Cement	F	ACM	HM	2551.420.005	5-Jun-91	50-75% Chrysotile
222	Office	Floor	Vinyl Floor Tile 12"x12"	Grey Oatmeal	-	Non ACM	HM	S17	20-Jan-10	ND
222	Office	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
222	Office	Wall	Concrete	-	-	Non ACM	-	-	-	-
222	Office	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-



School Name	Legend:	Notes: All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions. Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material	
Date Built:	SL - Sample Location - Material Sampled	
Original: 1881	VC - Visually Confirmed - Material not sampled, deemed ACM	
Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F- Friable	

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
222	Office	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
222	Office	Piping	Pipe Insulation	Air Cell	F	ACM	HM	2551.420.001	5-Jun-91	>75% Chrysotile
223	Classroom 223	Floor	Vinyl Floor Tile 12"x12"	Grey Oatmeal	-	Non ACM	HM	S17	20-Jan-10	ND
223	Classroom 223	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
223	Classroom 223	Wall	Concrete	-	-	Non ACM	-	-	-	-
223	Classroom 223	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
223	Classroom 223	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
224	Classroom 224	Floor	Vinyl Floor Tile 12"x12"	Grey Oatmeal	-	Non ACM	HM	S17	20-Jan-10	ND
224	Classroom 224	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
224	Classroom 224	Wall	Concrete	-	-	Non ACM	-	-	-	-
224	Classroom 224	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
224	Classroom 224	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
224	Classroom 224	Piping	Pipe Insulation	Air Cell	F	ACM	HM	2551.420.001	5-Jun-91	>75% Chrysotile
230	File Room	Floor	Vinyl Floor Tile 12"x12"	Grey Oatmeal	-	Non ACM	HM	S17	20-Jan-10	ND
230	File Room	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
230	File Room	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
230	File Room	Ceiling	Ceiling Tile 2'x2'	Textured Pinhole (2020)	-	Non ACM	-	-	-	-
230A	IT Room	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
230A	IT Room	Floor	Vinyl Floor Tile 9"x9"	Pink with Black and White Streaks	NF	ACM	HM	S09	20-Jan-10	7.5% Chrysotile
230A	IT Room	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
230A	IT Room	Ceiling	Steel Deck	-	-	Non ACM	-	-	-	-
231	Guidance	Floor	Wood Laminate	-	-	Non ACM	-	-	-	-
231	Guidance	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
231	Guidance	Ceiling	Ceiling Tile 2'x2'	Textured Pinhole (2020)	-	Non ACM	-	-	-	-
231A	Office	Floor	Carpet	-	-	Non ACM	-	-	-	-
231A	Office	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
231A	Office	Ceiling	Ceiling Tile 2'x2'	Textured Pinhole (2020)	-	Non ACM	-	-	-	-
231B	Office	Floor	Carpet	-	-	Non ACM	-	-	-	-
231B	Office	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
231B	Office	Ceiling	Ceiling Tile 2'x2'	Textured Pinhole (2020)	-	Non ACM	-	-	-	-
231C	Office	Floor	Carpet	-	-	Non ACM	-	-	-	-
231C	Office	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
231C	Office	Ceiling	Ceiling Tile 2'x2'	Textured Pinhole (2020)	-	Non ACM	-	-	-	-
231D	Office	Floor	Carpet	-	-	Non ACM	-	-	-	-
231D	Office	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
231D	Office	Ceiling	Ceiling Tile 2'x2'	Textured Pinhole (2020)	-	Non ACM	-	-	-	-
231E	Office	Floor	Carpet	-	-	Non ACM	-	-	-	-



School Name	Legend:	Notes:
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Date Built:		
Original: 1881 Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011		Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
231E	Office	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
231E	Office	Ceiling	Ceiling Tile 2'x2'	Textured Pinhole (2020)	-	Non ACM	-	-	-	-
231F	Office	Floor	Carpet	-	-	Non ACM	-	-	-	-
231F	Office	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
231F	Office	Ceiling	Ceiling Tile 2'x2'	Textured Pinhole (2020)	-	Non ACM	-	-	-	-
232	Science Room	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
232	Science Room	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
232	Science Room	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
232	Science Room	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
232	Science Room	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
232A	Science Supplies	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
232A	Science Supplies	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
232A	Science Supplies	Ceiling	Ceiling Tile 2'x2'	Textured Pinhole (2020)	-	Non ACM	-	-	-	-
233	Classroom	Floor	Wood Laminate	-	-	Non ACM	HM	S17	20-Jan-10	ND
233	Classroom	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
233	Classroom	Wall	Concrete	-	-	Non ACM	-	-	-	-
233	Classroom	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
234	Vent Shaft	No Access								
240	Storage	Floor	Carpet	-	-	Non ACM	-	-	-	-
240	Storage	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
240	Storage	Ceiling	Ceiling Tile 2'x2'	Textured Pinhole (2020)	-	Non ACM	-	-	-	-
241	Washroom	Floor	Ceramic	-	-	Non ACM	-	-	-	-
241	Washroom	Wall	Ceramic	-	-	Non ACM	-	-	-	-
241	Washroom	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
241	Washroom	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
241	Washroom	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
242	Washroom	Floor	Ceramic	-	-	Non ACM	-	-	-	-
242	Washroom	Wall	Ceramic	-	-	Non ACM	-	-	-	-
242	Washroom	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
242	Washroom	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
242	Washroom	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
243	Staff Washroom	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
243	Staff Washroom	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
243	Staff Washroom	Wall	Ceramic	-	-	Non ACM	-	-	-	-
243	Staff Washroom	Ceiling	Ceiling Tile 2'x2'	Textured Pinhole (2020)	-	Non ACM	-	-	-	-
244	Staff Washroom	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
244	Staff Washroom	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-



School Name	Legend:	Notes: All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions. Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material	
Date Built:	SL - Sample Location - Material Sampled	
Original: 1881	VC - Visually Confirmed - Material not sampled, deemed ACM	
Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F - Friable	

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
244	Staff Washroom	Wall	Ceramic	-	-	Non ACM	-	-	-	-
244	Staff Washroom	Ceiling	Ceiling Tile 2'x2'	Textured Pinhole (2020)	-	Non ACM	-	-	-	-
245	Office Reception	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
245	Office Reception	Floor	Ceramic	-	-	Non ACM	-	-	-	-
245	Office Reception	Floor	Carpet	-	-	Non ACM	-	-	-	-
245	Office Reception	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
245	Office Reception	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
245	Office Reception	Wall	Brick	-	-	Non ACM	-	-	-	-
245	Office Reception	Ceiling	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
245	Office Reception	Ceiling	Ceiling Tile 2'x2'	Textured Pinhole (2020)	-	Non ACM	-	-	-	-
245A	Office	Floor	Carpet	-	-	Non ACM	-	-	-	-
245A	Office	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
245A	Office	Ceiling	Ceiling Tile 2'x2'	Textured Pinhole (2020)	-	Non ACM	-	-	-	-
245B	Office	Floor	Carpet	-	-	Non ACM	-	-	-	-
245B	Office	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
245B	Office	Ceiling	Ceiling Tile 2'x2'	Textured Pinhole (2020)	-	Non ACM	-	-	-	-
245C	Office	Floor	Carpet	-	-	Non ACM	-	-	-	-
245C	Office	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
245C	Office	Ceiling	Ceiling Tile 2'x2'	Textured Pinhole (2020)	-	Non ACM	-	-	-	-
245D	Office	Floor	Carpet	-	-	Non ACM	-	-	-	-
245D	Office	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
245D	Office	Ceiling	Ceiling Tile 2'x2'	Textured Pinhole (2020)	-	Non ACM	-	-	-	-
245E	Office	Floor	Carpet	-	-	Non ACM	-	-	-	-
245E	Office	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
245E	Office	Ceiling	Ceiling Tile 2'x2'	Textured Pinhole (2020)	-	Non ACM	-	-	-	-
245F	Office	Floor	Carpet	-	-	Non ACM	-	-	-	-
245F	Office	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
245F	Office	Ceiling	Ceiling Tile 2'x2'	Textured Pinhole (2020)	-	Non ACM	-	-	-	-
245G	Vault	No Access								
245H	Corridor	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
245H	Corridor	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
245H	Corridor	Ceiling	Ceiling Tile 2'x2'	Textured Pinhole (2020)	-	Non ACM	-	-	-	-
245I	Kitchenette	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
245I	Kitchenette	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
245I	Kitchenette	Ceiling	Ceiling Tile 2'x2'	Textured Pinhole (2020)	-	Non ACM	-	-	-	-
245J	Corridor	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
245J	Corridor	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-



School Name	Legend:	Notes:
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material SL - Sample Location - Material Sampled VC - Visually Confirmed - Material not sampled, deemed ACM NF - Non-Friable F - Friable	All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions.
Date Built:		
Original: 1881		Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.
Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011		

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
245J	Corridor	Ceiling	Ceiling Tile 2'x2'	Textured Pinhole (2020)	-	Non ACM	-	-	-	-
245K	Closet	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
245K	Closet	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
245K	Closet	Ceiling	Ceiling Tile 2'x2'	Textured Pinhole (2020)	-	Non ACM	-	-	-	-
246	Office	Floor	Wood	-	-	Non ACM	-	-	-	-
246	Office	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
246	Office	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
246	Office	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
246A	Closet	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
246A	Closet	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
246A	Closet	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
246A	Closet	Ceiling	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
247	Lounge	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
247	Lounge	Floor	Wood	-	-	Non ACM	-	-	-	-
247	Lounge	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
247	Lounge	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
247	Lounge	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
247	Lounge	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
247B	Washroom	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
247B	Washroom	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
247B	Washroom	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
247B	Washroom	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
247B	Washroom	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
247D	Washroom	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
247D	Washroom	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
247D	Washroom	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
247D	Washroom	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
251	Activities Room	Floor	Vinyl Floor Tile 12"x12"	Grey Oatmeal	-	Non ACM	HM	S17	20-Jan-10	ND
251	Activities Room	Wall	Drywall	Drywall Joint Compound	NF	ACM	HM	S07	15-Sep-20	1% Chrysotile
251	Activities Room	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
251	Activities Room	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
251	Activities Room	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
252	Office	Floor	Wood	-	-	Non ACM	-	-	-	-
252	Office	Wall	Drywall	Drywall Joint Compound	NF	ACM	HM	S07	15-Sep-20	1% Chrysotile
252	Office	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
252	Office	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
252	Office	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND



School Name	Legend:	Notes: All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions. Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material	
Date Built:	SL - Sample Location - Material Sampled	
Original: 1881	VC - Visually Confirmed - Material not sampled, deemed ACM	
Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F - Friable	

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
252A	Storage	Floor	Wood	-	-	Non ACM	-	-	-	-
252A	Storage	Wall	Drywall	Drywall Joint Compound	NF	ACM	HM	S07	15-Sep-20	1% Chrysotile
252A	Storage	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
252A	Storage	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
252A	Storage	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
253	Office	Floor	Wood	-	-	Non ACM	-	-	-	-
253	Office	Wall	Drywall	Drywall Joint Compound	NF	ACM	HM	S07	15-Sep-20	1% Chrysotile
253	Office	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
253	Office	Ceiling	Ceiling Tile 2'x4'	Long Fissure Random Pinhole	NF	ACM	HM	S34	20-Jan-10	2.7% Amosite
254	Library	Floor	Carpet	-	-	Non ACM	-	-	-	-
254	Library	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
254	Library	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
254	Library	Ceiling	Insulation	Fire Spray (2006)	-	Non ACM	-	-	-	-
254	Library	Ceiling	Stucco	-	-	Non ACM	-	-	-	-
254	Library	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006) (2019)	-	Non ACM	-	-	-	-
254A	Study Room	Floor	Carpet	-	-	Non ACM	-	-	-	-
254A	Study Room	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
254A	Study Room	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
254A	Study Room	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
254A	Study Room	Ceiling	Insulation	Fire Spray (2006)	-	Non ACM	-	-	-	-
254B	Study Room	Floor	Carpet	-	-	Non ACM	-	-	-	-
254B	Study Room	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
254B	Study Room	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
254B	Study Room	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
254B	Study Room	Ceiling	Insulation	Fire Spray (2006)	-	Non ACM	-	-	-	-
255	Library	Floor	Carpet	-	-	Non ACM	-	-	-	-
255	Library	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
255	Library	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
255	Library	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
255	Library	Ceiling	Drywall	Drywall Joint Compound (2006)	-	Non ACM	-	-	-	-
255A	Office	Floor	Carpet	-	-	Non ACM	-	-	-	-
255A	Office	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
255A	Office	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
255A	Office	Ceiling	Ceiling Tile 2'x4'	Long Fissure Random Pinhole	NF	ACM	HM	S34	20-Jan-10	2.7% Amosite
255A	Office	Ceiling	Drywall	Drywall Joint Compound (2006)	-	Non ACM	-	-	-	-
256	Office	Floor	Carpet	-	-	Non ACM	-	-	-	-
256	Office	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND



School Name	Legend:	Notes:
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Date Built:		
Original: 1881 Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011		Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
256	Office	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
256	Office	Ceiling	Ceiling Tile 2'x4'	Long Fissure Random Pinhole	NF	ACM	HM	S34	20-Jan-10	2.7% Amosite
256	Office	Ceiling	Drywall	Drywall Joint Compound (2006)	-	Non ACM	-	-	-	-
257	Supply Room	Floor	Vinyl Floor Tile 12"x12"	Beige with White and Brown Streaks	NF	ACM	HM	S03	20-Jan-10	1.8% Chrysotile
257	Supply Room	Wall	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
257	Supply Room	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
257	Supply Room	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
258	Staff Room	Floor	Wood	-	-	Non ACM	-	-	-	-
258	Staff Room	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
258	Staff Room	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
258	Staff Room	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
258	Staff Room	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006) (2019)	-	Non ACM	-	-	-	-
259	Storage	Floor	Wood	-	-	Non ACM	-	-	-	-
259	Storage	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
259	Storage	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
259	Storage	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
259	Storage	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006) (2019)	-	Non ACM	-	-	-	-
262	Classroom 262	Floor	Vinyl Floor Tile 9"x9"	Grey with Black and White Streaks	NF	ACM	HM	S11	20-Jan-10	7.8% Chrysotile
262	Classroom 262	Floor	Vinyl Floor Tile 9"x9"	Black	NF	ACM	SL	S04ABC	2-Jan-17	9.65% Chrysotile
262	Classroom 262	Floor	Vinyl Floor Tile 12"x12"	Grey Oatmeal	-	Non ACM	HM	S17	20-Jan-10	ND
262	Classroom 262	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
262	Classroom 262	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
262	Classroom 262	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
262	Classroom 262	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
263	Classroom 263	Floor	Vinyl Floor Tile 9"x9"	Tan with Brown and White	NF	ACM	HM	S15	20-Jan-10	6.3% Chrysotile
263	Classroom 263	Floor	Vinyl Floor Tile 9"x9"	Black	NF	ACM	SL	S04ABC	2-Jan-17	9.65% Chrysotile
263	Classroom 263	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
263	Classroom 263	Wall	Concrete	-	-	Non ACM	-	-	-	-
263	Classroom 263	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
263	Classroom 263	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
263	Classroom 263	Piping	Pipe Insulation	Air Cell	F	ACM	HM	2551.420.001	5-Jun-91	>75% Chrysotile
264	Classroom 264	Floor	Vinyl Floor Tile 9"x9"	Brown with White and Orange Streaks	NF	ACM	HM	S07	20-Jan-10	6.8% Chrysotile
264	Classroom 264	Floor	Vinyl Floor Tile 9"x9"	Tan with Brown and White	NF	ACM	HM	S15	20-Jan-10	6.3% Chrysotile
264	Classroom 264	Floor	Vinyl Floor Tile 9"x9"	Black	NF	ACM	SL	S04ABC	2-Jan-17	9.65% Chrysotile
264	Classroom 264	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
264	Classroom 264	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
264	Classroom 264	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-



School Name	Legend:	Notes: All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions. Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material	
Date Built:	SL - Sample Location - Material Sampled	
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Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F - Friable	

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
264	Classroom 264	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006) (2019)	-	Non ACM	-	-	-	-
265	Classroom 265	Floor	Vinyl Floor Tile 12"x12"	Grey Oatmeal	-	Non ACM	HM	S17	20-Jan-10	ND
265	Classroom 265	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
265	Classroom 265	Wall	Concrete	-	-	Non ACM	-	-	-	-
265	Classroom 265	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
265A	Corridor	Floor	Vinyl Floor Tile 12"x12"	Beige with White/Brown Streaks	-	Non ACM	-	-	-	-
265A	Corridor	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
265A	Corridor	Wall	Ceramic	-	-	Non ACM	-	-	-	-
265A	Corridor	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
265B	Janitor Closet	Floor	Concrete	White with Blue Streaks	-	Non ACM	HM	S04	20-Jan-10	ND
265B	Janitor Closet	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
265B	Janitor Closet	Ceiling	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
265C	Washroom	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
265C	Washroom	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
265C	Washroom	Wall	Ceramic	-	-	Non ACM	-	-	-	-
265C	Washroom	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
266	Classroom 266	Floor	Vinyl Floor Tile 12"x12"	Grey Dense Fleck	-	Non ACM	HM	S17	20-Jan-10	ND
266	Classroom 266	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
266	Classroom 266	Wall	Concrete	-	-	Non ACM	-	-	-	-
266	Classroom 266	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
266	Classroom 266	Piping	Pipe Insulation	Air Cell	F	ACM	HM	2551.420.001	5-Jun-91	>75% Chrysotile
266A	Classroom storage	Floor	Vinyl Floor Tile 9"x9"	Black with White and Green	NF	ACM	HM	S10	20-Jan-10	5.9% Chrysotile
266A	Classroom storage	Wall	Drywall	Drywall Joint Compound	-	Non ACM	SL	S05BC	15-Sep-20	ND
266A	Classroom storage	Wall	Fibreboard	-	-	Non ACM	-	-	-	-
266A	Classroom storage	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
266A	Classroom storage	Ceiling	Ceiling Tile 2'x4'	Long Fissure Random Pinhole	NF	ACM	HM	S34	20-Jan-10	2.7% Amosite
267	Staff Room	Floor	Vinyl Floor Tile 12"x12"	Beige with White and Brown Streaks	NF	ACM	HM	S03	20-Jan-10	1.8% Chrysotile
267	Staff Room	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
267	Staff Room	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006) (2019)	-	Non ACM	-	-	-	-
268	Classroom 268	Floor	Vinyl Floor Tile 9"x9"	Brown with White and Orange Streaks	NF	ACM	HM	S07	20-Jan-10	6.8% Chrysotile
268	Classroom 268	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
268	Classroom 268	Floor	Ceramic Tile	-	-	Non ACM	-	-	-	-
268	Classroom 268	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
268	Classroom 268	Wall	Concrete	-	-	Non ACM	-	-	-	-
268	Classroom 268	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
268	Classroom 268	Piping	Pipe Insulation	Air Cell	F	ACM	HM	2551.420.001	5-Jun-91	>75% Chrysotile
270	Classroom 270	Floor	Vinyl Floor Tile 9"x9"	Brown with White and Orange Streaks	NF	ACM	HM	S07	20-Jan-10	6.8% Chrysotile



School Name	Legend:	Notes: All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions. Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material	
Date Built:	SL - Sample Location - Material Sampled	
Original: 1881	VC - Visually Confirmed - Material not sampled, deemed ACM	
Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F - Friable	

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
270	Classroom 270	Floor	Vinyl Floor Tile 9"x9"	Pink with Black and White Streaks	NF	ACM	HM	S09	20-Jan-10	7.5% Chrysotile
270	Classroom 270	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
270	Classroom 270	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
270	Classroom 270	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006) (2019)	-	Non ACM	-	-	-	-
271	Classroom 271	Floor	Vinyl Floor Tile 9"x9"	Grey with Black and White Streaks	NF	ACM	HM	S11	20-Jan-10	7.8% Chrysotile
271	Classroom 271	Floor	Vinyl Floor Tile 9"x9"	Green with White and Green Streaks	NF	ACM	HM	S21	20-Jan-10	0.75% Chrysotile
271	Classroom 271	Floor	Vinyl Floor Tile 9"x9"	Black with White and Green	NF	ACM	HM	S10	20-Jan-10	5.9% Chrysotile
271	Classroom 271	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
271	Classroom 271	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
271	Classroom 271	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
271	Classroom 271	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006) (2019)	-	Non ACM	-	-	-	-
271	Classroom 271	Piping	Pipe Insulation	Air Cell	F	ACM	HM	2551.420.001	5-Jun-91	>75% Chrysotile
272	Classroom 272	Floor	Vinyl Floor Tile 9"x9"	Green with White and Green Streaks	NF	ACM	HM	S21	20-Jan-10	0.75% Chrysotile
272	Classroom 272	Floor	Vinyl Floor Tile 9"x9"	Black with White and Green	NF	ACM	HM	S10	20-Jan-10	5.9% Chrysotile
272	Classroom 272	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
272	Classroom 272	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
272	Classroom 272	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
272	Classroom 272	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
273	Classroom 273	Floor	Wood Laminate	-	-	Non ACM	-	-	-	-
273	Classroom 273	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
273	Classroom 273	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
273	Classroom 273	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
273	Classroom 273	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006) (2019)	-	Non ACM	-	-	-	-
273A	Washroom	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
273A	Washroom	Wall	Ceramic	-	-	Non ACM	-	-	-	-
273A	Washroom	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
273A	Washroom	Wall	Concrete	-	-	Non ACM	-	-	-	-
273A	Washroom	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
273A	Washroom	Piping	Pipe Fitting	Parged Cement	F	ACM	HM	2551.420.005	5-Jun-91	50-75% Chrysotile
275	Classroom 274/275	Floor	Vinyl Floor Tile 12"x12"	White with Blue Streaks	-	Non ACM	HM	S04	20-Jan-10	ND
275	Classroom 274/275	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
275	Classroom 274/275	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
275A	Office A	Floor	Vinyl Floor Tile 12"x12"	White with Blue Streaks	-	Non ACM	HM	S04	20-Jan-10	ND
275A	Office A	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
275A	Office A	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
275B	Office B	Floor	Vinyl Floor Tile 12"x12"	White with Blue Streaks	-	Non ACM	HM	S04	20-Jan-10	ND
275B	Office B	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND



School Name	Legend:	Notes:
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material	All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions.
Date Built:	SL - Sample Location - Material Sampled	
Original: 1881	VC - Visually Confirmed - Material not sampled, deemed ACM	
Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F - Friable	

Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
275B	Office B	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
275C	Office C	Floor	Vinyl Floor Tile 12"x12"	White with Blue Streaks	-	Non ACM	HM	S04	20-Jan-10	ND
275C	Office C	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
275C	Office C	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
275D	Office D	Floor	Vinyl Floor Tile 12"x12"	White with Blue Streaks	-	Non ACM	HM	S04	20-Jan-10	ND
275D	Office D	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
275D	Office D	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
276	Computer Lab	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
276	Computer Lab	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
276	Computer Lab	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S18	16-Sep-20	ND
276	Computer Lab	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
277	Classroom 277	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
277	Classroom 277	Wall	Concrete	-	-	Non ACM	-	-	-	-
277	Classroom 277	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S18	16-Sep-20	ND
277	Classroom 277	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
283	Corridor	Floor	Wood Laminate	-	-	Non ACM	-	-	-	-
283	Corridor	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
283	Corridor	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S18	16-Sep-20	ND
283	Corridor	Ceiling	Ceiling Tile 2'x2'	Textured Pinhole (2020)	-	Non ACM	-	-	-	-
284	Theatre	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
284	Theatre	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
284	Theatre	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S18	16-Sep-20	ND
284	Theatre	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
284	Theatre	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
285	Stage	Floor	Wood	-	-	Non ACM	-	-	-	-
285	Stage	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
285	Stage	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
285	Stage	Ceiling	Concrete	-	-	Non ACM	-	-	-	-
285A	Storage A	Floor	Vinyl Floor Tile 12"x12"	Grey Oatmeal	-	Non ACM	HM	S17	20-Jan-10	ND
285A	Storage A	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
285A	Storage A	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
285B	Storage B	Floor	Vinyl Floor Tile 12"x12"	Grey Oatmeal	-	Non ACM	HM	S17	20-Jan-10	ND
285B	Storage B	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
285B	Storage B	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
285D	Storage C	Floor	Vinyl Floor Tile 12"x12"	Grey Oatmeal	-	Non ACM	HM	S17	20-Jan-10	ND
285D	Storage C	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
285D	Storage C	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-



School Name	Legend:	Notes: All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions. Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material	
Date Built:	SL - Sample Location - Material Sampled	
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Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable	
	F - Friable	

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
421	Hallway	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
421	Hallway	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
421	Hallway	Wall	Concrete	-	-	Non ACM	-	-	-	-
421	Hallway	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
421	Hallway	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
422	Hallway	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
422	Hallway	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
422	Hallway	Wall	Concrete	-	-	Non ACM	-	-	-	-
422	Hallway	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
422	Hallway	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
422A	Hallway	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
422A	Hallway	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
422A	Hallway	Wall	Concrete	-	-	Non ACM	-	-	-	-
422A	Hallway	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
422A	Hallway	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
422B	Hallway	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
422B	Hallway	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
422B	Hallway	Wall	Concrete	-	-	Non ACM	-	-	-	-
422B	Hallway	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
422B	Hallway	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
423	Hallway	Floor	Vinyl Floor Tile 12"x12"	Grey Oatmeal	-	Non ACM	HM	S17	20-Jan-10	ND
423	Hallway	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
423	Hallway	Wall	Concrete	-	-	Non ACM	-	-	-	-
423	Hallway	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
423A	Hallway	Floor	Vinyl Floor Tile 12"x12"	Grey Oatmeal	-	Non ACM	HM	S17	20-Jan-10	ND
423A	Hallway	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
423A	Hallway	Wall	Concrete	-	-	Non ACM	-	-	-	-
423A	Hallway	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
424	Hallway	Floor	Wood	-	-	Non ACM	-	-	-	-
424	Hallway	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
424	Hallway	Wall	Concrete	-	-	Non ACM	-	-	-	-
424	Hallway	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
424A	Hallway	Floor	Vinyl Floor Tile 12"x12"	White with Blue Streaks	-	Non ACM	HM	S04	20-Jan-10	ND
424A	Hallway	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
424A	Hallway	Wall	Concrete	-	-	Non ACM	-	-	-	-
424A	Hallway	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
424A	Hallway	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-



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Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material	
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Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F- Friable	

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
425	Hallway	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
425	Hallway	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
425	Hallway	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S18	16-Sep-20	ND
425	Hallway	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
833	Corridor	Floor	Wood	-	-	Non ACM	-	-	-	-
833	Corridor	Wall	Plaster	Plaster	-	Non ACM	HM	S13	17-Sep-20	ND
833	Corridor	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
833	Corridor	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006) (2019)	-	Non ACM	-	-	-	-
838	Library Entrance	Floor	Carpet	-	-	Non ACM	-	-	-	-
838	Library Entrance	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
838	Library Entrance	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
838	Library Entrance	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
838	Library Entrance	Ceiling	Drywall	Drywall Joint Compound (2006)	-	Non ACM	-	-	-	-
901	Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
901	Stairwell	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
901	Stairwell	Wall	Concrete	-	-	Non ACM	-	-	-	-
901	Stairwell	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
901	Stairwell	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
903	Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
903	Stairwell	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
903	Stairwell	Wall	Concrete	-	-	Non ACM	-	-	-	-
903	Stairwell	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
903	Stairwell	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
903C	Main Entrance	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
903C	Main Entrance	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
903C	Main Entrance	Wall	Concrete	-	-	Non ACM	-	-	-	-
903C	Main Entrance	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
903C	Main Entrance	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
905	Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
905	Stairwell	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
905	Stairwell	Wall	Concrete	-	-	Non ACM	-	-	-	-
905	Stairwell	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
905	Stairwell	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
906	Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
906	Stairwell	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
906	Stairwell	Wall	Concrete	-	-	Non ACM	-	-	-	-
906	Stairwell	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-



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Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F- Friable	

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906	Stairwell	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
907	Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
907	Stairwell	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
907	Stairwell	Wall	Concrete	-	-	Non ACM	-	-	-	-
907	Stairwell	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
907	Stairwell	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
908	Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
908	Stairwell	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
908	Stairwell	Wall	Concrete	-	-	Non ACM	-	-	-	-
908	Stairwell	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
908	Stairwell	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
914	Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
914	Stairwell	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
914	Stairwell	Wall	Concrete	-	-	Non ACM	-	-	-	-
914	Stairwell	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
914	Stairwell	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
Level 3										
310	Career Centre 310	Floor	Vinyl Floor Tile 12"x12"	Grey Dense Fleck	-	Non ACM	HM	S17	20-Jan-10	ND
310	Career Centre 310	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
310	Career Centre 310	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
310	Career Centre 310	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
311	Drama 311	Floor	Carpet	-	-	Non ACM	-	-	-	-
311	Drama 311	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
311	Drama 311	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
311	Drama 311	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
311A	Drama Storage	Floor	Vinyl Floor Tile 9"x9"	Blue with White Streaks	NF	ACM	HM	S14	20-Jan-10	1.2% Chrysotile
311A	Drama Storage	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
311A	Drama Storage	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
311A	Drama Storage	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S05	16-Sep-20	ND
311A	Drama Storage	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
311A	Drama Storage	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
311B	Storage	Floor	Wood	-	-	Non ACM	-	-	-	-
311B	Storage	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
311B	Storage	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
312	Classroom 312	Floor	Vinyl Floor Tile 12"x12"	White with Tan Streaks	-	Non ACM	HM	S05	20-Jan-10	ND



School Name	Legend:	Notes: All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions. Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material	
Date Built:	SL - Sample Location - Material Sampled	
Original: 1881	VC - Visually Confirmed - Material not sampled, deemed ACM	
Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F- Friable	

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
312	Classroom 312	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
312	Classroom 312	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S05	16-Sep-20	ND
312	Classroom 312	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
312	Classroom 312	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
313	Classroom 313	Floor	Wood Laminate	-	-	Non ACM	-	-	-	-
313	Classroom 313	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
313	Classroom 313	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
313	Classroom 313	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
314	Office 340	Floor	Vinyl Floor Tile 9"x9"	Brown with White and Orange Streaks	NF	ACM	HM	S07	20-Jan-10	6.8% Chrysotile
314	Office 340	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
314	Office 340	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
314	Office 340	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
314	Office 340	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
314A	Storage	Floor	Concrete	-	-	Non ACM	-	-	-	-
314A	Storage	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
314A	Storage	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
314B	Mechanical Room	No-Access								
320	Classroom 320	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
320	Classroom 320	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
320	Classroom 320	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
320	Classroom 320	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
321	Classroom 321	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
321	Classroom 321	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
321	Classroom 321	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
321	Classroom 321	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
322	Family Studies Sewing	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
322	Family Studies Sewing	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
322	Family Studies Sewing	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
322	Family Studies Sewing	Floor	Vinyl Sheet Flooring	Grey (New)	-	Non ACM	-	-	-	-
322B	Roof Top Unit	No-Access								
323	Classroom 323	Floor	Vinyl Floor Tile 12"x12"	White with Tan Streaks	-	Non ACM	HM	S05	20-Jan-10	ND
323	Classroom 323	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S05	16-Sep-20	ND
323	Classroom 323	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
323	Classroom 323	Ceiling	Drywall	Drywall Joint Compound	-	Non ACM	HM	S05	16-Sep-20	ND
330	Hair Styling 330	Floor	Vinyl Floor Tile 12"x12"	White with Blue Streaks	-	Non ACM	HM	S04	20-Jan-10	ND
330	Hair Styling 330	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
330	Hair Styling 330	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-



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Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material	
Date Built:	SL - Sample Location - Material Sampled	
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Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F- Friable	

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
330	Hair Styling 330	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
331	Storage	Floor	Vinyl Sheet Flooring	Grey (New)	-	Non ACM	-	-	-	-
331	Storage	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
331	Storage	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S02	16-Sep-20	ND
331	Storage	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
331	Storage	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
332	Family Studies 332	Floor	Vinyl Sheet Flooring	Grey (New)	-	Non ACM	-	-	-	-
332	Family Studies 332	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
332	Family Studies 332	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
332	Family Studies 332	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
333	Classroom 333	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
333	Classroom 333	Wall	Concrete	-	-	Non ACM	-	-	-	-
333	Classroom 333	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
333	Classroom 333	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
333	Classroom 333	Ceiling	Drywall	Drywall Joint Compound	-	Non ACM	HM	S05	16-Sep-20	ND
336	Storage 336	Floor	Vinyl Floor Tile 12"x12"	White with Blue Streaks	-	Non ACM	HM	S04	20-Jan-10	ND
336	Storage 336	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
336	Storage 336	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
336	Storage 336	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
336A	Laundry Room	Floor	Vinyl Floor Tile 12"x12"	White with Blue Streaks	-	Non ACM	HM	S04	20-Jan-10	ND
336A	Laundry Room	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
336A	Laundry Room	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
336A	Laundry Room	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
338	Washroom	Floor	Ceramic	-	-	Non ACM	-	-	-	-
338	Washroom	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S05	16-Sep-20	ND
338	Washroom	Wall	Ceramic Tile	-	-	Non ACM	-	-	-	-
338	Washroom	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
338	Washroom	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
339	Washroom	Floor	Ceramic	-	-	Non ACM	-	-	-	-
339	Washroom	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
339	Washroom	Wall	Ceramic Tile	-	-	Non ACM	-	-	-	-
339	Washroom	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S05	16-Sep-20	ND
339	Washroom	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
339	Washroom	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
339A	Washroom	Floor	Ceramic	-	-	Non ACM	-	-	-	-
339A	Washroom	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S05	16-Sep-20	ND
339A	Washroom	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND



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Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F - Friable	

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339A	Washroom	Wall	Ceramic Tile	-	-	Non ACM	-	-	-	-
339A	Washroom	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
339A	Washroom	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
341	Office 341	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
341	Office 341	Wall	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
341	Office 341	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
341	Office 341	Ceiling	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
341A	Storage	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
341A	Storage	Wall	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
341A	Storage	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
341A	Storage	Ceiling	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
342	Classroom 342	Floor	Vinyl Floor Tile 12"x12"	Grey with White and Brown Streaks	NF	ACM	HM	S02	20-Jan-10	2.1% Chrysotile
342	Classroom 342	Wall	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
342	Classroom 342	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
342	Classroom 342	Ceiling	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
343	Classroom 343	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
343	Classroom 343	Wall	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
343	Classroom 343	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
343	Classroom 343	Ceiling	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
350	Classroom 350	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
350	Classroom 350	Wall	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
350	Classroom 350	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
350	Classroom 350	Ceiling	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
350A	Storage	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
350A	Storage	Wall	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
350A	Storage	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
350A	Storage	Ceiling	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
351	Co-Op Office	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
351	Co-Op Office	Wall	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
351	Co-Op Office	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
351	Co-Op Office	Ceiling	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
352	Classroom 352	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
352	Classroom 352	Wall	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
352	Classroom 352	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
352	Classroom 352	Ceiling	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
357	Storage	Floor	Concrete	-	-	Non ACM	-	-	-	-
357	Storage	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND



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Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F - Friable	

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
357	Storage	Wall	Wood	-	-	Non ACM	-	-	-	-
357	Storage	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
358	Storage	Floor	Concrete	-	-	Non ACM	-	-	-	-
358	Storage	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
358	Storage	Wall	Wood	-	-	Non ACM	-	-	-	-
358	Storage	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
359	Drama Storage	Floor	Vinyl Floor Tile 9"x9"	Brown with White Streaks	NF	ACM	HM	S13	20-Jan-10	1.3% Chrysotile
359	Drama Storage	Wall	Wood	-	-	Non ACM	-	-	-	-
359	Drama Storage	Ceiling	Wood	-	-	Non ACM	-	-	-	-
360	Catwalk	No-Access								
361	Retail Classroom 361	Floor	Vinyl Floor Tile 9"x9"	Black with White and Green	NF	ACM	HM	S10	20-Jan-10	5.9% Chrysotile
361	Retail Classroom 361	Floor	Vinyl Floor Tile 9"x9"	Grey with Black and White Streaks	NF	ACM	HM	S11	20-Jan-10	7.8% Chrysotile
361	Retail Classroom 361	Floor	Vinyl Floor Tile 12"x12"	White with Blue Streaks	-	Non ACM	HM	S04	20-Jan-10	ND
361	Retail Classroom 361	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
361	Retail Classroom 361	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
361	Retail Classroom 361	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
363	Classroom 363	Floor	Vinyl Floor Tile 12"x12"	White with Tan Streaks	-	Non ACM	HM	S05	20-Jan-10	ND
363	Classroom 363	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
363	Classroom 363	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
363	Classroom 363	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
364	Classroom 364	Floor	Vinyl Floor Tile 12"x12"	White with Tan Streaks	-	Non ACM	HM	S05	20-Jan-10	ND
364	Classroom 364	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
364	Classroom 364	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
364	Classroom 364	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
365	Classroom 365	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
365	Classroom 365	Wall	Drywall	Drywall Joint Compound	-	Non ACM	SL	S13B	16-Sep-20	ND
365	Classroom 365	Wall	Plaster	Plaster	-	Non ACM	SL	S12A	16-Sep-20	ND
365	Classroom 365	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
365	Classroom 365	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
365A	Washroom	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
365A	Washroom	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
365A	Washroom	Wall	Ceramic Tile	-	-	Non ACM	-	-	-	-
365A	Washroom	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
365B	Washroom	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
365B	Washroom	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
365B	Washroom	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
366	Computer Lab 366	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND



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366	Computer Lab 366	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
366	Computer Lab 366	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
366	Computer Lab 366	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
367	Office 367	Floor	Carpet	-	-	Non ACM	-	-	-	-
367	Office 367	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
367	Office 367	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
367	Office 367	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
368	Computer Lab 368	Floor	Vinyl Floor Tile 12"x12"	White with Tan Streaks	-	Non ACM	HM	S05	20-Jan-10	ND
368	Computer Lab 368	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
368	Computer Lab 368	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
368	Computer Lab 368	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
370	Classroom 370	Floor	Vinyl Floor Tile 9"x9"	Black with White and Green	NF	ACM	HM	S10	20-Jan-10	5.9% Chrysotile
370	Classroom 370	Floor	Vinyl Floor Tile 9"x9"	Grey with Black and White Streaks	NF	ACM	HM	S11	20-Jan-10	7.8% Chrysotile
370	Classroom 370	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
370	Classroom 370	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
370	Classroom 370	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
371	Computer Lab 371	Floor	Vinyl Floor Tile 9"x9"	Black with Red Blotch	NF	ACM	HM	S03	2-Jan-17	9.94% Chrysotile
371	Computer Lab 371	Floor	Vinyl Floor Tile 9"x9"	Brown Camo - Brown and White	NF	ACM	HM	S16	20-Jan-10	6.1% Chrysotile
371	Computer Lab 371	Floor	Vinyl Floor Tile 9"x9"	Pink with Black and White Streaks	NF	ACM	HM	S09	20-Jan-10	7.5% Chrysotile
371	Computer Lab 371	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
371	Computer Lab 371	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
371	Computer Lab 371	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
372	Classroom 372	Floor	Vinyl Floor Tile 12"x12"	Beige with Orange Streak (New)	-	Non ACM	-	-	-	-
372	Classroom 372	Floor	Vinyl Floor Tile 12"x12"	Black Dense Fleck (New)	-	Non ACM	-	-	-	-
372	Classroom 372	Floor	Vinyl Floor Tile 12"x12"	Green Dense Fleck (New)	-	Non ACM	-	-	-	-
372	Classroom 372	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
372	Classroom 372	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
372	Classroom 372	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
373	Classroom 373	Floor	Vinyl Floor Tile 9"x9"	Brown Camo - Brown and White	NF	ACM	HM	S16	20-Jan-10	6.1% Chrysotile
373	Classroom 373	Floor	Vinyl Floor Tile 9"x9"	Burgundy	NF	ACM	HM	S08	20-Jan-10	7.4% Chrysotile
373	Classroom 373	Floor	Vinyl Floor Tile 9"x9"	Grey with Black and White Streaks	NF	ACM	HM	S11	20-Jan-10	7.8% Chrysotile
373	Classroom 373	Wall	Drywall	Drywall Joint Compound	-	Non ACM	SL	S13A	16-Sep-20	ND
373	Classroom 373	Wall	Plaster	Plaster	-	Non ACM	SL	S12A	16-Sep-20	ND
373	Classroom 373	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
373	Classroom 373	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
373A	Washroom	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
373A	Washroom	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND



School Name	Legend:	Notes: All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions. Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material	
Date Built:	SL - Sample Location - Material Sampled	
Original: 1881	VC - Visually Confirmed - Material not sampled, deemed ACM	
Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F - Friable	

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
373A	Washroom	Wall	Ceramic Tile	-	-	Non ACM	-	-	-	-
373A	Washroom	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
374	Classroom 374	Floor	Vinyl Floor Tile 9"x9"	Black with White and Green	NF	ACM	HM	S10	20-Jan-10	5.9% Chrysotile
374	Classroom 374	Floor	Vinyl Floor Tile 9"x9"	Grey with Black and White Streaks	NF	ACM	HM	S11	20-Jan-10	7.8% Chrysotile
374	Classroom 374	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
374	Classroom 374	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
374	Classroom 374	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
375	Classroom 375	Floor	Vinyl Floor Tile 9"x9"	Brown Camo - Brown and White	NF	ACM	HM	S16	20-Jan-10	6.1% Chrysotile
375	Classroom 375	Floor	Vinyl Floor Tile 9"x9"	Burgundy	NF	ACM	HM	S08	20-Jan-10	7.4% Chrysotile
375	Classroom 375	Floor	Vinyl Floor Tile 9"x9"	Pink with Black and White Streaks	NF	ACM	HM	S09	20-Jan-10	7.5% Chrysotile
375	Classroom 375	Floor	Vinyl Floor Tile 12"x12"	Brown Oatmeal	-	Non ACM	HM	S01	20-Jan-10	ND
375	Classroom 375	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
375	Classroom 375	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
375	Classroom 375	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
376	Computer Lab 376	Floor	Wood Laminate	-	-	Non ACM	-	-	-	-
376	Computer Lab 376	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
376	Computer Lab 376	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
376	Computer Lab 376	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
377	Computer Lab 377	Floor	Vinyl Floor Tile 12"x12"	White with Tan Streaks	-	Non ACM	HM	S05	20-Jan-10	ND
377	Computer Lab 377	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
377	Computer Lab 377	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
377	Computer Lab 377	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
378	Office 378	Floor	Vinyl Floor Tile 12"x12"	White with Tan and Green Streaks	-	Non ACM	HM	S06	20-Jan-10	ND
378	Office 378	Wall	Drywall	Drywall Joint Compound	-	Non ACM	SL	S13C	16-Sep-20	ND
378	Office 378	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
378	Office 378	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
378	Office 378	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
380	Balcony	Floor	Concrete	-	-	Non ACM	-	-	-	-
380	Balcony	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
380	Balcony	Ceiling	Metal Pan	-	-	Non ACM	-	-	-	-
381	Balcony	Floor	Concrete	-	-	Non ACM	-	-	-	-
381	Balcony	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
381	Balcony	Ceiling	Metal Pan	-	-	Non ACM	-	-	-	-
431	Corridor	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
431	Corridor	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
431	Corridor	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
432	Corridor	Floor	Terrazzo	-	-	Non ACM	-	-	-	-



School Name	Legend:	Notes: All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions. Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material	
Date Built:	SL - Sample Location - Material Sampled	
Original: 1881	VC - Visually Confirmed - Material not sampled, deemed ACM	
Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011	NF - Non-Friable F- Friable	

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
432	Corridor	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
432	Corridor	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
433	Corridor	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
433	Corridor	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
433	Corridor	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
433A	Corridor	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
433A	Corridor	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
433A	Corridor	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
433A	Corridor	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
433B	Corridor	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
433B	Corridor	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
433B	Corridor	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
433B	Corridor	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
433C	Corridor	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
433C	Corridor	Wall	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
433C	Corridor	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
433C	Corridor	Ceiling	Drywall	Drywall Joint Compound (New)	-	Non ACM	-	-	-	-
434	Corridor	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
434	Corridor	Wall	Concrete	-	-	Non ACM	-	-	-	-
434	Corridor	Ceiling	Ceiling Tile 2'x4'	Medium Fissure Pinhole	-	Non ACM	SL	S23abc	20-Jan-10	ND
434	Corridor	Ceiling	Insulation	Fire spray	-	Non ACM	SL	S24abc	20-Jan-10	ND
435	Corridor	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
435	Corridor	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
435	Corridor	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
435	Corridor	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
435	Corridor	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
435	Corridor	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
435	Corridor	Ceiling	Metal Pan	-	-	Non ACM	-	-	-	-
435	Corridor	Ceiling	Metal Pan	-	-	Non ACM	-	-	-	-
435A	Corridor	Floor	Vinyl Floor Tile 12"x12"	White with Blue Streaks	-	Non ACM	HM	S04	20-Jan-10	ND
435A	Corridor	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
435A	Corridor	Ceiling	Ceiling Tile 2'x4'	Textured Pinhole (2004)	-	Non ACM	-	-	-	-
435A	Corridor	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
435A	Corridor	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
435C	Washroom	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
435C	Washroom	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
435C	Washroom	Wall	Ceramic Tile	-	-	Non ACM	-	-	-	-



School Name	Legend:	Notes:
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material SL - Sample Location - Material Sampled VC - Visually Confirmed - Material not sampled, deemed ACM NF - Non-Friable F - Friable	All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions.
Date Built:		
Original: 1881		Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.
Additions: 1922, 1947, 1958, 1963, 1966, 1975, 1984, 1990, 2004, 2011		

WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
435C	Washroom	Ceiling	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
436	Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
436	Stairwell	Wall	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
436	Computer Lab 368	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
436	Computer Lab 368	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
436	Stairwell	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
436	Computer Lab 368	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
436	Stairwell	Ceiling	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
436	Computer Lab 368	Floor	Vinyl Floor Tile 12"x12"	White with Tan Streaks	-	Non ACM	HM	S05	20-Jan-10	ND
901	Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
901	Stairwell	Wall	Drywall	Drywall Joint Compound	-	Non ACM	HM	S05	16-Sep-20	ND
901	Stairwell	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
901	Stairwell	Ceiling	Drywall	Drywall Joint Compound	-	Non ACM	HM	S05	16-Sep-20	ND
902	Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
902	Stairwell	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
902	Stairwell	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
903	Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
903	Stairwell	Wall	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
903	Stairwell	Ceiling	Plaster	Plaster	-	Non ACM	HM	S03	16-Sep-20	ND
905	Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
905	Stairwell	Wall	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
905	Stairwell	Ceiling	Ceiling Tile 2'x4'	Short Fissure Random Pinhole (2006)	-	Non ACM	-	-	-	-
905	Stairwell	Ceiling	Plaster	Plaster	-	Non ACM	HM	S08	16-Sep-20	ND
906	Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
906	Stairwell	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
906	Stairwell	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
907	Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
907	Stairwell	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
907	Stairwell	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
907	Stairwell	Ceiling	Ceiling Tile 1'x1'	Flat (Cellulose)	-	Non ACM	-	-	-	-
907B	Penthouse	No-Access								
908	Stairwell	Floor	Terrazzo	-	-	Non ACM	-	-	-	-
908	Stairwell	Wall	Plaster	Plaster	-	Non ACM	HM	S12	16-Sep-20	ND
908	Stairwell	Ceiling	Ceiling Tile 1'x1'	Pinhole (Cellulose)	-	Non ACM	-	-	-	-
908	Stairwell	Ceiling	Ceiling Tile 1'x1'	Flat (Cellulose)	-	Non ACM	-	-	-	-
908B	Penthouse	No-Access								
915	Corridor	Floor	Terrazzo	-	-	Non ACM	-	-	-	-



School Name	Legend:	Notes: All quantities provided on Figures, if known. Refer to the Asbestos Audit Update Report for condition of ACM and recommended actions. Dates provided in Material Description/Room Description columns indicates date of installation/renovation and confirms the finishes as non-ACM.
Kitchener-Waterloo C. I.	HM - Homogenous Material - homogeneous with previously sampled material	
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WRDSB Fixed Reference Number	Room Description	Inspected Item	Inspected Material	Material Description	Friability	Asbestos Classification	Sample / Identification Summary	Sample ID	Sample Date	% Asbestos & Fibre Type
915	Corridor	Wall	Concrete	-	-	Non ACM	-	-	-	-
915	Corridor	Ceiling	Ceiling Tile 2'x4'	Medium Fissure Pinhole	-	Non ACM	SL	S23abc	20-Jan-10	ND
915	Corridor	Ceiling	Insulation	Fire spray	-	Non ACM	SL	S24abc	20-Jan-10	ND
952	Elevator	Floor	Vinyl Sheet Flooring	Beige and Tan Cobblestone	-	Non ACM	HM	S12	20-Jan-10	ND
952	Elevator	Wall	Partition	-	-	Non ACM	-	-	-	-
952	Elevator	Ceiling	Partition	-	-	Non ACM	-	-	-	-
Summary of Potential ACM Hidden or Not Assessed										
	Throughout Building	Not Inspected	Not Inspected	Wall Cavity Insulation						
	Throughout Building	Not Inspected	Not Inspected	Door Core Insulation						

For Tender Purposes

Appendix B

Figures

For Tender Purposes



ORIGINAL BUILDING - DRYWALL JOINT COMPOUND ON DRYWALL IS ACM.
 ORIGINAL BUILDING - BLACK SEALANT ON INTERIOR WINDOW FRAMES IS ACM.
 ORIGINAL BUILDING - FLOOR TILE MASTIC IS ACM.
 1922 ADDITION - WHITE SEALANT ON EXTERIOR WINDOW FRAMES IS ACM.
 1922 ADDITION - GREY SEALANT ON EXTERIOR DOOR FRAMES IS ACM.
 1922 ADDITION - FLOOR TILE MASTIC IS ACM.
 1947 ADDITION - BLACK SEALANT ON INTERIOR WINDOW FRAMES IS ACM.
 1947 ADDITION - GREY SEALANT ON INTERIOR DOOR FRAMES IS ACM.
 1947 ADDITION - FLOOR TILE MASTIC IS ACM.
 1958 ADDITION - GREY SEALANT ON INTERIOR/EXTERIOR WINDOW FRAMES IS ACM.
 1958 ADDITION - BLACK SEALANT ON INTERIOR WINDOW PANES IS ACM.
 1958 ADDITION - FLOOR TILE MASTIC IS ACM.
 1963 ADDITION - GREY SEALANT ON INTERIOR/EXTERIOR WINDOW FRAMES IS ACM.
 1963 ADDITION - WHITE SEALANT ON EXTERIOR DOOR FRAMES IS ACM.
 1975 ADDITION - BLACK SEALANT ON INTERIOR WINDOW PANES IS ACM.
 1975 ADDITION - BLACK SEALANT ON INTERIOR/EXTERIOR DOOR FRAMES IS ACM.
 1975 ADDITION - FLOOR TILE MASTIC IS DEEMED ACM.
 1984 ADDITION - GREY SEALANT ON INTERIOR WINDOW PANES IS ACM.
 1984 ADDITION - FLOOR TILE MASTIC IS DEEMED ACM.

1975 ADDITION

1958 ADDITION

1881 ORIGINAL BUILDING

1963 ADDITION

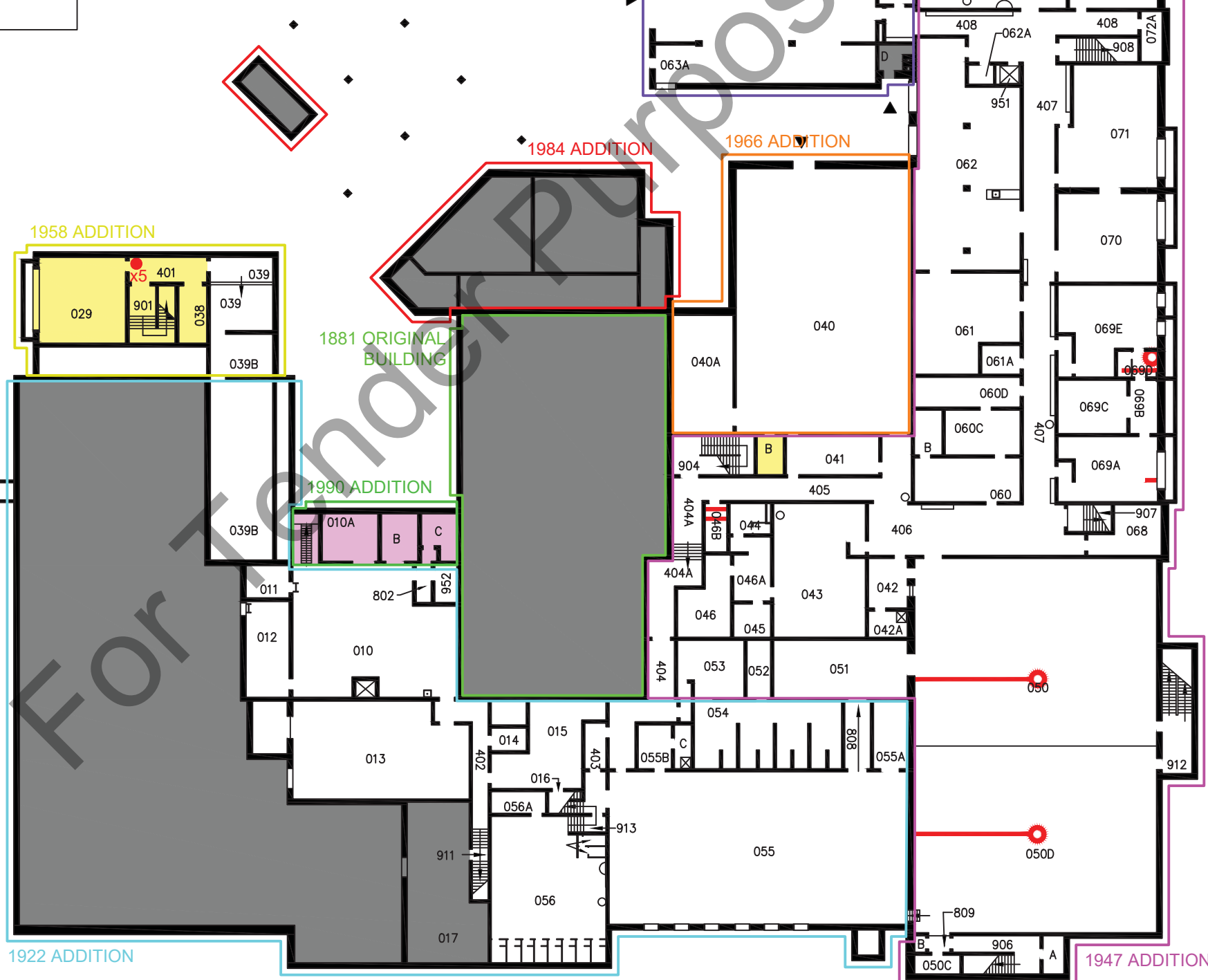
1990 ADDITION

1984 ADDITION

1966 ADDITION

1922 ADDITION

1947 ADDITION



NOTES:
 ALL DRAWINGS TO BE REFERENCED WITH THE ASSOCIATED REPORT. LOCATIONS AND QUANTITIES ARE APPROXIMATE.
 ALL KNOWN OR SUSPECT ASBESTOS-CONTAINING MATERIALS AND/OR DESIGNATED 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 Fixed Reference Number
 No Access
 Post 1990 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



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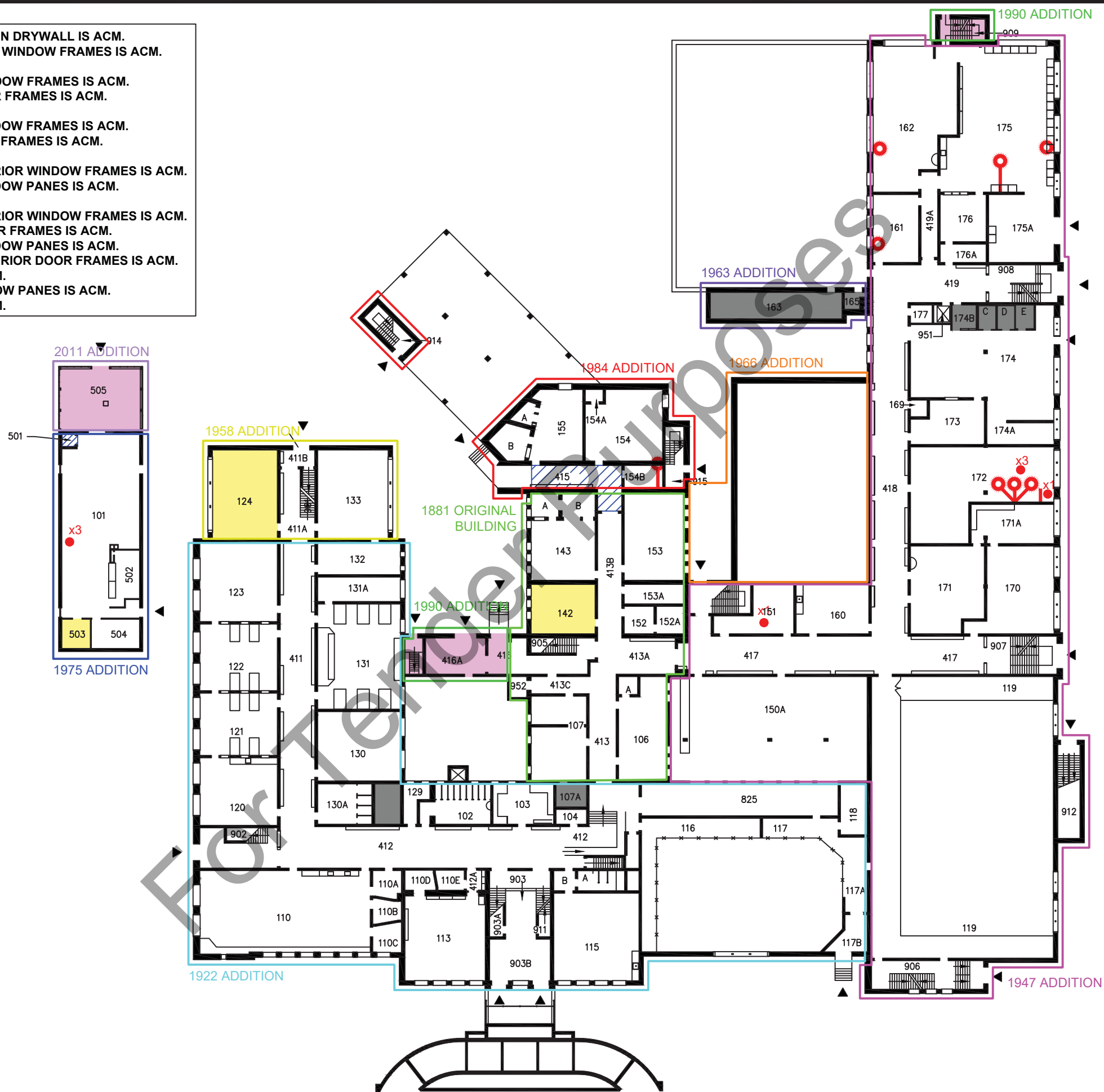
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 WATERLOO REGION DISTRICT SCHOOL BOARD

PROJECT
 2023 ASBESTOS AUDIT UPDATE

DRAWING
 KITCHENER WATERLOO COLLEGIATE INSTITUTE (KITCHENER) LOWER LEVEL

Project Manager	PXS	Date	January 2023
Design By	WRDSB	Project No.	34532-941
Drawn By	SGL	Drawing No.	1.0
Scale	N.T.S.		

ORIGINAL BUILDING - DRYWALL JOINT COMPOUND ON DRYWALL IS ACM.
 ORIGINAL BUILDING - BLACK SEALANT ON INTERIOR WINDOW FRAMES IS ACM.
 ORIGINAL BUILDING - FLOOR TILE MASTIC IS ACM.
 1922 ADDITION - WHITE SEALANT ON EXTERIOR WINDOW FRAMES IS ACM.
 1922 ADDITION - GREY SEALANT ON EXTERIOR DOOR FRAMES IS ACM.
 1922 ADDITION - FLOOR TILE MASTIC IS ACM.
 1947 ADDITION - BLACK SEALANT ON INTERIOR WINDOW FRAMES IS ACM.
 1947 ADDITION - GREY SEALANT ON INTERIOR DOOR FRAMES IS ACM.
 1947 ADDITION - FLOOR TILE MASTIC IS ACM.
 1958 ADDITION - GREY SEALANT ON INTERIOR/EXTERIOR WINDOW FRAMES IS ACM.
 1958 ADDITION - BLACK SEALANT ON INTERIOR WINDOW PANES IS ACM.
 1958 ADDITION - FLOOR TILE MASTIC IS ACM.
 1963 ADDITION - GREY SEALANT ON INTERIOR/EXTERIOR WINDOW FRAMES IS ACM.
 1963 ADDITION - WHITE SEALANT ON EXTERIOR DOOR FRAMES IS ACM.
 1975 ADDITION - BLACK SEALANT ON INTERIOR WINDOW PANES IS ACM.
 1975 ADDITION - BLACK SEALANT ON INTERIOR/EXTERIOR DOOR FRAMES IS ACM.
 1975 ADDITION - FLOOR TILE MASTIC IS DEEMED ACM.
 1984 ADDITION - GREY SEALANT ON INTERIOR WINDOW PANES IS ACM.
 1984 ADDITION - FLOOR TILE MASTIC IS DEEMED ACM.



NOTES:
 ALL DRAWINGS TO BE REFERENCED WITH THE ASSOCIATED REPORT. LOCATIONS AND QUANTITIES ARE APPROXIMATE.
 ALL KNOWN OR SUSPECT ASBESTOS-CONTAINING MATERIALS AND/OR DESIGNATED 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 Fixed Reference Number
 - No Access
 - Post 1990 Construction

- Asbestos-Containing Materials (ACM):**
- Floor Tile
 - Rollled 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



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PROJECT
 2023 ASBESTOS AUDIT UPDATE

DRAWING
 KITCHENER WATERLOO COLLEGIATE INSTITUTE (KITCHENER) GROUND LEVEL

Project Manager	PXS	Date	January 2023
Design By	WRDSB	Project No.	34532-941
Drawn By	SGL	Drawing No.	1.1
Scale	N.T.S.		

ORIGINAL BUILDING - DRYWALL JOINT COMPOUND ON DRYWALL IS ACM.
 ORIGINAL BUILDING - BLACK SEALANT ON INTERIOR WINDOW FRAMES IS ACM.
 ORIGINAL BUILDING - FLOOR TILE MASTIC IS ACM.
 1922 ADDITION - WHITE SEALANT ON EXTERIOR WINDOW FRAMES IS ACM.
 1922 ADDITION - GREY SEALANT ON EXTERIOR DOOR FRAMES IS ACM.
 1922 ADDITION - FLOOR TILE MASTIC IS ACM.
 1947 ADDITION - BLACK SEALANT ON INTERIOR WINDOW FRAMES IS ACM.
 1947 ADDITION - GREY SEALANT ON INTERIOR DOOR FRAMES IS ACM.
 1947 ADDITION - FLOOR TILE MASTIC IS ACM.
 1958 ADDITION - GREY SEALANT ON INTERIOR/EXTERIOR WINDOW FRAMES IS ACM.
 1958 ADDITION - BLACK SEALANT ON INTERIOR WINDOW PANES IS ACM.
 1958 ADDITION - FLOOR TILE MASTIC IS ACM.
 1963 ADDITION - GREY SEALANT ON INTERIOR/EXTERIOR WINDOW FRAMES IS ACM.
 1963 ADDITION - WHITE SEALANT ON EXTERIOR DOOR FRAMES IS ACM.
 1975 ADDITION - BLACK SEALANT ON INTERIOR WINDOW PANES IS ACM.
 1975 ADDITION - BLACK SEALANT ON INTERIOR/EXTERIOR DOOR FRAMES IS ACM.
 1975 ADDITION - FLOOR TILE MASTIC IS DEEMED ACM.
 1984 ADDITION - GREY SEALANT ON INTERIOR WINDOW PANES IS ACM.
 1984 ADDITION - FLOOR TILE MASTIC IS DEEMED ACM.



NOTES:
 ALL DRAWINGS TO BE REFERENCED WITH THE ASSOCIATED REPORT. LOCATIONS AND QUANTITIES ARE APPROXIMATE.
 ALL KNOWN OR SUSPECT ASBESTOS-CONTAINING MATERIALS AND/OR DESIGNATED 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 Fixed Reference Number
 - No Access
 - Post 1990 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



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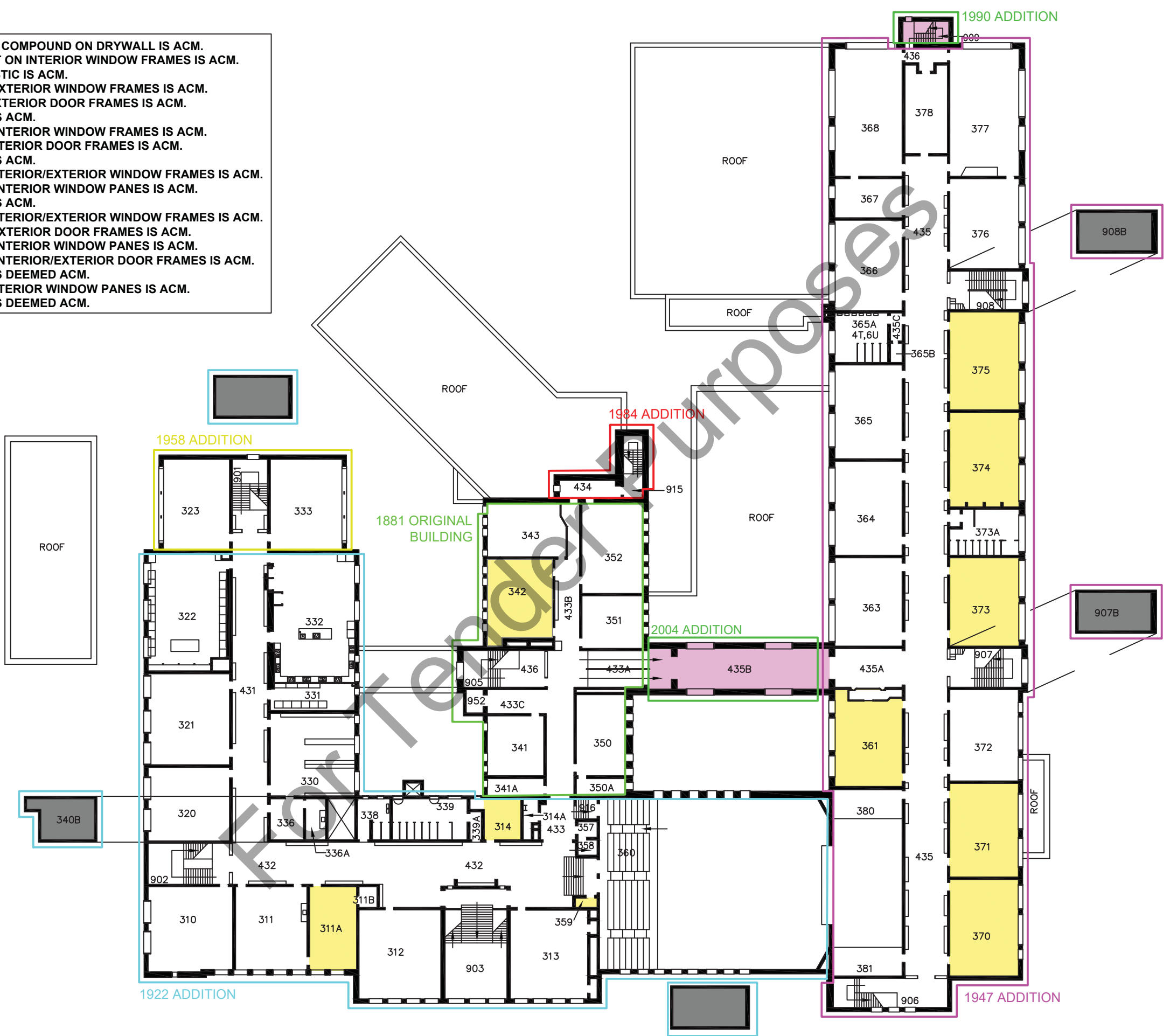
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 WATERLOO REGION DISTRICT SCHOOL BOARD

PROJECT
 2023 ASBESTOS AUDIT UPDATE

DRAWING
 KITCHENER WATERLOO COLLEGIATE INSTITUTE (KITCHENER) SECOND LEVEL

Project Manager	PXS	Date	January 2023
Design By	WRDSB	Project No.	34532-941
Drawn By	SGL	Drawing No.	1.2
Scale	N.T.S.		

ORIGINAL BUILDING - DRYWALL JOINT COMPOUND ON DRYWALL IS ACM.
 ORIGINAL BUILDING - BLACK SEALANT ON INTERIOR WINDOW FRAMES IS ACM.
 ORIGINAL BUILDING - FLOOR TILE MASTIC IS ACM.
 1922 ADDITION - WHITE SEALANT ON EXTERIOR WINDOW FRAMES IS ACM.
 1922 ADDITION - GREY SEALANT ON EXTERIOR DOOR FRAMES IS ACM.
 1922 ADDITION - FLOOR TILE MASTIC IS ACM.
 1947 ADDITION - BLACK SEALANT ON INTERIOR WINDOW FRAMES IS ACM.
 1947 ADDITION - GREY SEALANT ON INTERIOR DOOR FRAMES IS ACM.
 1947 ADDITION - FLOOR TILE MASTIC IS ACM.
 1958 ADDITION - GREY SEALANT ON INTERIOR/EXTERIOR WINDOW FRAMES IS ACM.
 1958 ADDITION - BLACK SEALANT ON INTERIOR WINDOW PANES IS ACM.
 1958 ADDITION - FLOOR TILE MASTIC IS ACM.
 1963 ADDITION - GREY SEALANT ON INTERIOR/EXTERIOR WINDOW FRAMES IS ACM.
 1963 ADDITION - WHITE SEALANT ON EXTERIOR DOOR FRAMES IS ACM.
 1975 ADDITION - BLACK SEALANT ON INTERIOR WINDOW PANES IS ACM.
 1975 ADDITION - BLACK SEALANT ON INTERIOR/EXTERIOR DOOR FRAMES IS ACM.
 1975 ADDITION - FLOOR TILE MASTIC IS DEEMED ACM.
 1984 ADDITION - GREY SEALANT ON INTERIOR WINDOW PANES IS ACM.
 1984 ADDITION - FLOOR TILE MASTIC IS DEEMED ACM.



NOTES:
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Legend

13 Fixed Reference Number

No Access

Post 1990 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



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PROJECT
 2023 ASBESTOS AUDIT UPDATE

DRAWING
 KITCHENER WATERLOO COLLEGIATE INSTITUTE (KITCHENER) THIRD LEVEL

Project Manager	PXS	Date	January 2023
Design By	WRDSB	Project No.	34532-941
Drawn By	SGL	Drawing No.	1.3
Scale	N.T.S.		

Appendix C

Tables

For Tender Purposes



TABLE 1 - INTERNAL ABATEMENT MANAGEMENT















Kitchener-Waterloo Collegiate Institute						
Material	WRDSB Fixed Reference Number	Material Description	Approximate Quantity	Photograph - Context	Photograph - Detail	Required Action
Asbestos Non-Friable	415	2' x 4' Ceiling Tile - Short Fisher Random Pinehole	2 Tiles			Monitor Annually
Asbestos Friable	175	Insulation on Pipe Straights	<0.1 m ²			Monitor Annually
Asbestos Non-Friable	257	12" x 12" Vinyl Floor Tile - Beige with White and Brown Streaks	25 tiles			Monitor Annually
Asbestos Non-Friable	272	9" x 9" Black Vinyl Floor Tile	10 Tiles			Repair/Removal in accordance with O. Reg. 278/05 as a Type 1 Operation
Asbestos Non-Friable	271	9" x 9" Black Vinyl Floor Tile	20 tiles - Damaged, Loose and Lifting			Repair/Removal in accordance with O. Reg. 278/05 as a Type 1 Operation

Table 1 and 2 - Damaged Materials - Kitchener-Waterloo CI

TABLE 1 - INTERNAL ABATEMENT MANAGEMENT

Kitchener-Waterloo Collegiate Institute						
Material	WRDSB Fixed Reference Number	Material Description	Approximate Quantity	Photograph - Context	Photograph - Detail	Required Action
Asbestos Non-Friable	262	9" x 9" Grey Vinyl Floor Tile	4 Tiles			Monitor Annually
Asbestos Non-Friable	314	9" x 9" Vinyl Floor Tile - Blue with Streaks	5 tiles			Monitor Annually

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. 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 - EXTERNAL ABATEMENT MANAGEMENT

Kitchener-Waterloo Collegiate Institute						
Material	WRDSB Fixed Reference Number	Material Description	Approximate Quantity	Photograph - Context	Photograph - Detail	Required Action
None Identified During Inspection						
<p>Notes:</p> <p>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.</p> <p>2) Recommended actions are the minimum required actions, as prescribed by the appropriate Acts, regulations, guidelines, standards, codes and general best practice measures. 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.</p> <p>3) All waste generated is subject to characterization and disposal in accordance with Ontario Regulation 347.</p>						

For Tender Purposes

TABLE 3: BULK ASBESTOS SAMPLING SUMMARY

Sample #	Location	Material Description	Asbestos Content (%)	Fibre Type	Is Material ACM
2010 Asbestos Audit Update					
KCI-S01a	-	12"x12" Floor Tile - Brown Oatmeal	ND	-	No
KCI-S01b	-	12"x12" Floor Tile - Brown Oatmeal	ND	-	No
KCI-S01c	-	12"x12" Floor Tile - Brown Oatmeal	ND	-	No
KCI-S02a	-	12"x12" Floor Tile - Grey with White and Brown Streaks	2.1	Chrysotile	Yes
KCI-S02b	-	12"x12" Floor Tile - Grey with White and Brown Streaks	NA	Chrysotile	Yes
KCI-S02c	-	12"x12" Floor Tile - Grey with White and Brown Streaks	NA	Chrysotile	Yes
KCI-S03a	-	12"x12" Floor Tile - Beige with White and Brown Streaks	1.8	Chrysotile	Yes
KCI-S03b	-	12"x12" Floor Tile - Beige with White and Brown Streaks	NA	Chrysotile	Yes
KCI-S03c	-	12"x12" Floor Tile - Beige with White and Brown Streaks	NA	Chrysotile	Yes
KCI-S04a	-	12"x12" Floor Tile - White with Blue Streaks	ND	-	No
KCI-S04b	-	12"x12" Floor Tile - White with Blue Streaks	ND	-	No
KCI-S04c	-	12"x12" Floor Tile - White with Blue Streaks	ND	-	No
KCI-S05a	-	12"x12" Floor Tile - White with Tan Streaks	ND	-	No
KCI-S05b	-	12"x12" Floor Tile - White with Tan Streaks	ND	-	No
KCI-S05c	-	12"x12" Floor Tile - Black Mastic	ND	-	No
KCI-S06a	-	12"x12" Floor Tile - White with Tan Streaks	ND	-	No
KCI-S06b	-	12"x12" Floor Tile - White with Tan and Green Streaks	ND	-	No
KCI-S06c	-	12"x12" Floor Tile - White with Tan and Green Streaks	ND	-	No
KCI-S06c	-	12"x12" Floor Tile - Black Mastic	ND	-	No
KCI-S07a	-	9"x9" Floor Tile - Brown with White and Orange Streaks	6.8	Chrysotile	Yes
KCI-S07a	-	9"x9" Floor Tile - Black Mastic	ND	-	No
KCI-S07b	-	9"x9" Floor Tile - Brown with White and Orange Streaks	NA	Chrysotile	Yes
KCI-S07c	-	9"x9" Floor Tile - Brown with White and Orange Streaks	NA	Chrysotile	Yes
KCI-S08a	-	9"x9" Floor Tile - Burgundy	7.4	Chrysotile	Yes
KCI-S08b	-	9"x9" Floor Tile - Burgundy	NA	Chrysotile	Yes
KCI-S08c	-	9"x9" Floor Tile - Burgundy	NA	Chrysotile	Yes
KCI-S09a	-	9"x9" Floor Tile - Pink with Black and White Streaks	7.5	Chrysotile	Yes
KCI-S09b	-	9"x9" Floor Tile - Pink with Black and White Streaks	NA	Chrysotile	Yes
KCI-S09c	-	9"x9" Floor Tile - Pink with Black and White Streaks	NA	Chrysotile	Yes
KCI-S10a	-	9"x9" Floor Tile - Black with White and Green	5.9	Chrysotile	Yes
KCI-S10b	-	9"x9" Floor Tile - Black with White and Green	NA	Chrysotile	Yes
KCI-S10c	-	9"x9" Floor Tile - Black with White and Green	NA	Chrysotile	Yes
KCI-S11a	-	9"x9" Floor Tile - Grey with Black and White Streaks	7.8	Chrysotile	Yes
KCI-S11b	-	9"x9" Floor Tile - Grey with Black and White Streaks	NA	Chrysotile	Yes
KCI-S11c	-	9"x9" Floor Tile - Grey with Black and White Streaks	NA	Chrysotile	Yes
KCI-S12a	-	Vinyl Sheet Flooring - Beige and Tan Cobblestone	ND	-	No
KCI-S12b	-	Vinyl Sheet Flooring - Beige and Tan Cobblestone	ND	-	No
KCI-S12c	-	Vinyl Sheet Flooring - Beige and Tan Cobblestone	ND	-	No
KCI-S13a	-	9"x9" Floor Tile - Brown with White Streaks	1.3	Chrysotile	Yes
KCI-S13b	-	9"x9" Floor Tile - Brown with White Streaks	NA	Chrysotile	Yes
KCI-S13c	-	9"x9" Floor Tile - Brown with White Streaks	NA	Chrysotile	Yes
KCI-S14a	-	9"x9" Floor Tile - Blue with White Streaks	1.2	Chrysotile	Yes
KCI-S14b	-	9"x9" Floor Tile - Blue with White Streaks	NA	Chrysotile	Yes
KCI-S14c	-	9"x9" Floor Tile - Blue with White Streaks	NA	Chrysotile	Yes
KCI-S15a	-	9"x9" Floor Tile - Tan with Brown and White	6.3	Chrysotile	Yes
KCI-S15b	-	9"x9" Floor Tile - Tan with Brown and White	NA	Chrysotile	Yes
KCI-S15c	-	9"x9" Floor Tile - Tan with Brown and White	NA	Chrysotile	Yes
KCI-S16a	-	9"x9" Floor Tile - Brown Camo with Brown and White	6.1	Chrysotile	Yes
KCI-S16b	-	9"x9" Floor Tile - Brown Camo with Brown and White	NA	Chrysotile	Yes
KCI-S16c	-	9"x9" Floor Tile - Brown Camo with Brown and White	NA	Chrysotile	Yes
KCI-S17a	-	12"x12" Floor Tile - Grey Oatmeal	ND	-	No
KCI-S17b	-	12"x12" Floor Tile - Grey Oatmeal	ND	-	No
KCI-S17c	-	12"x12" Floor Tile - Black Mastic	ND	-	No
KCI-S18a	-	12"x12" Floor Tile - Grey Oatmeal	ND	-	No
KCI-S18b	-	12"x12" Floor Tile - Orange Oatmeal	ND	-	No
KCI-S18c	-	12"x12" Floor Tile - Orange Oatmeal	ND	-	No
KCI-S19a	-	12"x12" Floor Tile - Light Blue Oatmeal	ND	-	No
KCI-S19b	-	12"x12" Floor Tile - Light Blue Oatmeal	ND	-	No
KCI-S19c	-	12"x12" Floor Tile - Light Blue Oatmeal	ND	-	No
KCI-S20a	-	12"x12" Floor Tile - White with Brown Streaks	ND	-	No
KCI-S20b	-	12"x12" Floor Tile - White with Brown Streaks	ND	-	No

Table 3 - KWCI - Sample Summary Table

TABLE 3: BULK ASBESTOS SAMPLING SUMMARY

Sample #	Location	Material Description	Asbestos Content (%)	Fibre Type	Is Material ACM
KCI-S20c	-	12"x12" Floor Tile - White with Brown Streaks	ND	-	No
KCI-S21a	-	9"x9" Floor Tile - Green with White and Green Streaks	0.75	Chrysotile	Yes
KCI-S21b	-	9"x9" Floor Tile - Green with White and Green Streaks	NA	Chrysotile	Yes
KCI-S21c	-	9"x9" Floor Tile - Green with White and Green Streaks	NA	Chrysotile	Yes
KCI-S22a	3045	Grey Plaster	ND	-	No
KCI-S22a	3045	White Plaster	ND	-	No
KCI-S22b	2005	White Plaster	ND	-	No
KCI-S22c	3051	White Plaster	ND	-	No
KCI-S22d	3005	White/Grey Plaster	ND	-	No
KCI-S22e	3024	Off-White Plaster	ND	-	No
KCI-S23a	3048	2' x 4' Ceiling Tile - Medium Fissure Random Pinhole	ND	-	No
KCI-S23b	3048	2' x 4' Ceiling Tile - Medium Fissure Random Pinhole	ND	-	No
KCI-S23c	3048	2' x 4' Ceiling Tile - Medium Fissure Random Pinhole	ND	-	No
KCI-S24a	3048	Firespray	ND	-	No
KCI-S24b	3048	Firespray	ND	-	No
KCI-S24c	3048	Firespray	ND	-	No
KCI-S25a	3019	Plaster	ND	-	No
KCI-S25b	3019	Plaster	ND	-	No
KCI-S25c	3019	Plaster	ND	-	No
KCI-S26a	3019	Mastic - Ceiling	ND	-	No
KCI-S26b	3019	Mastic - Ceiling	ND	-	No
KCI-S26c	3019	Mastic - Ceiling	ND	-	No
KCI-S27a	Boy's Gym	Skim Coat On Concrete	ND	-	No
KCI-S27b	Boy's Gym	Skim Coat On Concrete	ND	-	No
KCI-S27c	Boy's Gym	Skim Coat On Concrete	ND	-	No
KCI-S28a	Gym Stairwell	Stucco	1.1	Chrysotile	Yes
KCI-S28b	Gym Stairwell	Stucco	NA	Chrysotile	Yes
KCI-S28c	Gym Stairwell	Stucco	NA	Chrysotile	Yes
KCI-S29a	0029	1' x 1' Ceiling Tile - Long Fissure Random Pinhole	<0.25 & 2.4	Chrysotile & Amosite	Yes
KCI-S29b	0029	1' x 1' Ceiling Tile - Long Fissure Random Pinhole	NA	Chrysotile & Amosite	Yes
KCI-S29c	0029	1' x 1' Ceiling Tile - Long Fissure Random Pinhole	NA	Chrysotile & Amosite	Yes
KCI-S30a	0029	Tar Board	ND	-	No
KCI-S30b	0029	Tar Board	ND	-	No
KCI-S30c	0029	Tar Board	ND	-	No
KCI-S31a	0028	1' x 1' Ceiling Tile - Large and Small Pinhole	ND	-	No
KCI-S31b	0028	1' x 1' Ceiling Tile - Large and Small Pinhole	ND	-	No
KCI-S31c	0028	1' x 1' Ceiling Tile - Large and Small Pinhole	ND	-	No
KCI-S32a	Art Building	Insulation - Firespray	ND	-	No
KCI-S32b	Art Building	Insulation - Firespray	ND	-	No
KCI-S32b	Art Building	Insulation - Firespray	ND	-	No
KCI-S33a	Art Building	Drywall Joint Compound	ND	-	No
KCI-S33b	Art Building	Drywall Joint Compound	ND	-	No
KCI-S33c	Art Building	Drywall Joint Compound	ND	-	No
KCI-S34a	Art Building	2'x4' Ceiling Tile - Long Fissure Random Pinhole	0.5 & 2.7	Chrysotile & Amosite	Yes
KCI-S34b	Art Building	2'x4' Ceiling Tile - Long Fissure Random Pinhole	NA	Chrysotile & Amosite	Yes
KCI-S34c	Art Building	2'x4' Ceiling Tile - Long Fissure Random Pinhole	NA	Chrysotile & Amosite	Yes
2013 Limited Designated Substance Audit					
32940-202-S01A	2088	9"x9" Floor Tile - Red/White Fleck	1.1	Chrysotile	Yes
32940-202-S01A	2088	9"x9" Floor Tile - Black Mastic	2.3	Chrysotile	Yes
32940-202-S01B	2088	9"x9" Floor Tile - Red/White Fleck	NA	Chrysotile	Yes
32940-202-S01B	2088	9"x9" Floor Tile - Black Mastic	NA	Chrysotile	Yes
32940-202-S01C	2088	9"x9" Floor Tile - Red/White Fleck	NA	Chrysotile	Yes
32940-202-S01C	2088	9"x9" Floor Tile - Black Mastic	NA	Chrysotile	Yes
32940-202-S02A	2088	Interior Caulking	ND	-	No
32940-202-S02B	2088	Interior Caulking	ND	-	No
32940-202-S02C	2088	Interior Caulking	ND	-	No
32940-202-S03A	2088	Exterior Brick/Window Caulking	1.3	Chrysotile	Yes
32940-202-S03B	2088	Exterior Brick/Window Caulking	NA	Chrysotile	Yes
32940-202-S03C	2088	Exterior Brick/Window Caulking	NA	Chrysotile	Yes
2017 Asbestos Audit Update					
S01A	1088	Hard Texture Coat - Ceiling	ND	-	No
S01B	1088	Hard Texture Coat - Ceiling	ND	-	No
S01C	1088	Hard Texture Coat - Ceiling	ND	-	No
S02A	1047	9"x9" Floor Tile - Grey with White Streak	2.08	Chrysotile	Yes
S02A	1047	9"x9" Floor Tile - Black Mastic	1.33	Chrysotile	Yes
S02B	1047	9"x9" Floor Tile - Grey with White Streak	NA	Chrysotile	Yes
S02B	1047	9"x9" Floor Tile - Black Mastic	NA	Chrysotile	Yes

Table 3 - KWCI - Sample Summary Table

TABLE 3: BULK ASBESTOS SAMPLING SUMMARY

Sample #	Location	Material Description	Asbestos Content (%)	Fibre Type	Is Material ACM
S02C	1047	9"x9" Floor Tile - Grey with White Streak	NA	Chrysotile	Yes
S02C	1047	9"x9" Floor Tile - Black Mastic	NA	Chrysotile	Yes
S03A	2035	9"x9" Floor Tile - Black with Red Blotch	9.94	Chrysotile	Yes
S03A	2035	9"x9" Floor Tile - Black Mastic	0.75	Chrysotile	Yes
S03B	2035	9"x9" Floor Tile - Black with Red Blotch	NA	Chrysotile	Yes
S03B	2035	9"x9" Floor Tile - Black Mastic	NA	Chrysotile	Yes
S03C	2035	9"x9" Floor Tile - Black with Red Blotch	NA	Chrysotile	Yes
S03C	2035	9"x9" Floor Tile - Black Mastic	NA	Chrysotile	Yes
S04A	2034	9"x9" Floor Tile - Black	9.65	Chrysotile	Yes
S04A	2034	9"x9" Floor Tile - Black Mastic	< MDL	Chrysotile	No
S04B	2034	9"x9" Floor Tile - Black	NA	Chrysotile	Yes
S04B	2034	9"x9" Floor Tile - Black Mastic	< MDL	Chrysotile	No
S04C	2034	9"x9" Floor Tile - Black	NA	Chrysotile	Yes
S04C	2034	9"x9" Floor Tile - Black Mastic	< MDL	Chrysotile	No
2019 Onpoint Additional Sampling					
001a	Roof R-J	Roofing Materials - White/Grey Sealant	ND	-	No
001b	Roof R-J	Roofing Materials - White/Grey Sealant	ND	-	No
001c	Roof R-J	Roofing Materials - White/Grey Sealant	ND	-	No
002a	Roof R-J	Roofing Materials - Black Tar - Flashing	ND	-	No
002b	Roof R-J	Roofing Materials - Black Tar - Flashing	ND	-	No
002c	Roof R-J	Roofing Materials - Black Tar - Flashing	ND	-	No
003a	Roof R-J	Roofing Materials - Black Tar	ND	-	No
003b	Roof R-J	Roofing Materials - Black Tar	ND	-	No
003c	Roof R-J	Roofing Materials - Black Tar	ND	-	No
004a	Roof R-J	Roofing Materials - Felts/Tar/Foam	ND	-	No
004b	Roof R-J	Roofing Materials - Felts/Tar/Foam	ND	-	No
004c	Roof R-J	Roofing Materials - Felts/Tar/Foam	ND	-	No
005a	Roof R-J	Roofing Materials - Grey/Brown Sealant	ND	-	No
005b	Roof R-J	Roofing Materials - Grey/Brown Sealant	ND	-	No
005c	Roof R-J	Roofing Materials - Grey/Brown Sealant	ND	-	No
006a	Roof R-V	Roofing Materials - White Sealant on Parapet/Flashing	1	Chrysotile	Yes
006b	Roof R-V	Roofing Materials - White Sealant on Parapet/Flashing	NA	Chrysotile	Yes
006c	Roof R-V	Roofing Materials - White Sealant on Parapet/Flashing	NA	Chrysotile	Yes
007a	Roof R-V	Roofing Materials - Brown/Black Sealant on Flashing	ND	-	No
007b	Roof R-V	Roofing Materials - Brown/Black Sealant on Flashing	ND	-	No
007c	Roof R-V	Roofing Materials - Brown/Black Sealant on Flashing	ND	-	No
2019 Additional Sampling					
S01A	1958 Addition	Exterior Window Sealant - Grey	ND	Chrysotile	Yes
S01B	1958 Addition	Exterior Window Sealant - Grey	0.5	Chrysotile	Yes
S01C	1958 Addition	Exterior Window Sealant - Grey	NA	Chrysotile	Yes
S02A	1958 Addition	Interior Window Sealant - Grey	ND	Chrysotile	Yes
S02B	1958 Addition	Interior Window Sealant - Grey	ND	Chrysotile	Yes
S02C	1958 Addition	Interior Window Sealant - Grey	2	Chrysotile	Yes
S03A	1947 Addition	Exterior Window Sealant - Grey	ND	-	No
S03B	1947 Addition	Exterior Window Sealant - Grey	ND	-	No
S03C	1947 Addition	Exterior Window Sealant - Grey	ND	-	No
S04A	1947 Addition	Interior Window Sealant - Beige	ND	-	No
S04B	1947 Addition	Interior Window Sealant - Beige	ND	-	No
S04C	1947 Addition	Interior Window Sealant - Beige	ND	-	No
2020 Asbestos Audit Update					
S01A	Room 1003 (1922)	Exterior Door Sealant - Grey	2	Chrysotile	Yes
S01B	Room 1003 (1922)	Exterior Door Sealant - Grey	NA	Chrysotile	Yes
S01C	Room 1003 (1922)	Exterior Door Sealant - Grey	NA	Chrysotile	Yes
S02A	Room 1029 (1922)	Drywall Joint Compound - White	ND	-	No
S02B	Room 1033 (1922)	Drywall Joint Compound - White	ND	-	No
S02C	Room 1031 (1922)	Drywall Joint Compound - White	ND	-	No
S02D	Room 1032 (1922)	Drywall Joint Compound - White	ND	-	No
S02E	Room 1032 (1922)	Drywall Joint Compound - White	ND	-	No
S03A	Room 1035 (1922)	Plaster - White	ND	-	No
S03B	Room 1032 (1922)	Plaster - White	ND	-	No
S04A	Room 1036 (1958)	Floor Tile Mastic - Black	1	Chrysotile	Yes
S04B	Room 1036 (1958)	Floor Tile Mastic - Black	NA	Chrysotile	Yes
S04C	Room 1036 (1958)	Floor Tile Mastic - Black	NA	Chrysotile	Yes
S05A	Room 2079 (1958)	Drywall Joint Compound - White	ND	-	No
S05B	Room 2080 (1958)	Drywall Joint Compound - White	ND	-	No
S05C	Room 2080 (1958)	Drywall Joint Compound - White	ND	-	No
S06A	Room 2081 (1958)	Interior Window Sealant - Black	1	Chrysotile	Yes
S06B	Room 2081 (1958)	Interior Window Sealant - Black	NA	Chrysotile	Yes
S06C	Room 2081 (1958)	Interior Window Sealant - Black	NA	Chrysotile	Yes
S07A	Room 1046 (Original)	Drywall Joint Compound - White	1	Chrysotile	Yes
S07B	Room 1046 (Original)	Drywall Joint Compound - White	NA	Chrysotile	Yes

Table 3 - KWCI - Sample Summary Table

TABLE 3: BULK ASBESTOS SAMPLING SUMMARY

Sample #	Location	Material Description	Asbestos Content (%)	Fibre Type	Is Material ACM
S07C	Room 1090 (Original)	Drywall Joint Compound - White	NA	Chrysotile	Yes
S07D	Room 2067 (Original)	Drywall Joint Compound - White	NA	Chrysotile	Yes
S07E	Room 3066 (Original)	Drywall Joint Compound - White	NA	Chrysotile	Yes
S08A	At 1090 Corridor (Original)	Plaster - White	ND	-	No
S08B	Room 2056 (Original)	Plaster - White	ND	-	No
S08C	Room 2056 (Original)	Plaster - White	ND	-	No
S09A	Room 2069 (Original)	Interior Window Sealant - Black	5	Chrysotile	Yes
S09B	Room 2069 (Original)	Interior Window Sealant - Black	NA	Chrysotile	Yes
S09C	Room 2069 (Original)	Interior Window Sealant - Black	NA	Chrysotile	Yes
S10A	Room 3017 (1947)	Interior Door Sealant - Grey	1	Chrysotile	Yes
S10B	Room 3017 (1947)	Interior Door Sealant - Grey	NA	Chrysotile	Yes
S10C	Room 3017 (1947)	Interior Door Sealant - Grey	NA	Chrysotile	Yes
S11A	Room 3017 (1947)	Interior Window Sealant - Black	5	Chrysotile	Yes
S11B	Room 3017 (1947)	Interior Window Sealant - Black	NA	Chrysotile	Yes
S11C	Room 3017 (1947)	Interior Window Sealant - Black	NA	Chrysotile	Yes
S12A	Room 3049 (1947)	Plaster - White	ND	-	No
S13A	Room 3049 (1947)	Drywall Joint Compound - White	ND	-	No
S13B	Room 3054 (1947)	Drywall Joint Compound - White	ND	-	No
S13C	Room 3064 (1947)	Drywall Joint Compound - White	ND	-	No
S13D	Room 2043 (1947)	Drywall Joint Compound - White	ND	-	No
S13E	Room 1053 (1947)	Drywall Joint Compound - White	ND	-	No
S14A	Room 0070 (1063)	Exterior Window Sealant - Hard Grey	1	Chrysotile	Yes
S14B	Room 0070 (1063)	Exterior Window Sealant - Hard Grey	NA	Chrysotile	Yes
S14C	Room 0070 (1063)	Exterior Window Sealant - Hard Grey	NA	Chrysotile	Yes
S15A	Room 0069 (1963)	Exterior Door Sealant - White	ND	Chrysotile	Yes
S15B	Room 0069 (1963)	Exterior Door Sealant - White	ND	Chrysotile	Yes
S15C	Room 0069 (1963)	Exterior Door Sealant - White	1	Chrysotile	Yes
S16A	Room 2076 (1984)	Exterior Window Sealant - White	ND	-	No
S16B	Room 2076 (1984)	Exterior Window Sealant - White	ND	-	No
S16C	Room 2076 (1984)	Exterior Window Sealant - White	ND	-	No
S17A	Room 2078 (1984)	Indoor Window Pane Sealant - Grey	3	Chrysotile	Yes
S17B	Room 2078 (1984)	Indoor Window Pane Sealant - Grey	NA	Chrysotile	Yes
S17C	Room 2078 (1984)	Indoor Window Pane Sealant - Grey	NA	Chrysotile	Yes
S18A	Room 2078 (1984)	Drywall Joint Compound - White	ND	-	No
S18B	Room 2078 (1984)	Drywall Joint Compound - White	ND	-	No
S18C	Room 2078 (1984)	Drywall Joint Compound - White	ND	-	No
S19A	Room 1085 (1975/2011)	Interior Window Pane Sealant - Black	5	Chrysotile	Yes
S19B	Room 1085 (1975/2011)	Interior Window Pane Sealant - Black	NA	Chrysotile	Yes
S19C	Room 1085 (1975/2011)	Interior Window Pane Sealant - Black	NA	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 01 35 34B– Lead Report – Not Applicable

01 42 00 – References

1.0 GENERAL

1.1. SECTION INCLUDES

- .1 References and standards.
- .2 Standards producing industry organizations and their addresses.

1.2. RELATED SECTIONS

- .1 Section 01 61 00 – Product Requirements.
- .2 This section describes requirements applicable to all Sections within Divisions 02 to 49.

1.3. REFERENCES

- .1 For Products or quality specified by association, trade, or other references or consensus standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.
- .2 Conform to reference standard by Ontario Building Code except where a specific date is established or required by code.
- .3 Obtain copies of standards where required by product specification sections.
- .4 Neither the contractual relationships, duties, or responsibilities of the parties in Contract nor those of the Consultant shall be altered from the Contract Documents by mention or inference otherwise, in any reference document.

1.4. STANDARDS

- .1 The following associations and organizations are cited in specification sections. Acronym, name, address, and Internet URL addresses are as follows:
- .2 Canadian Organizations:
 - .1 Street, Suite 616, Ottawa, ON K1P 5G4; URL: <http://www.acec.ca>.
 - .2 **AWMAC** - Architectural Woodwork Manufacturers Association of Canada, 516-4 Street West, High River, AB T1V 1B6; URL: <http://www.awmac.com>.
 - .3 **Canada Green Building Council**, 330 - 55 rue Murray Street, Ottawa, ON. K1N5M3; Tel: 613-241-1184, Fax: 613-241-5750; URL: <http://www.cagbc.org>.
 - .4 **CCA** - Canadian Construction Association, 75 Albert St., Suite 400, Ottawa, ON K1P 5E7; URL: <http://www.cca-acc.com>.
 - .5 **CCDC** – Canadian Construction Documents Committee, Refer to ACEC, CCA, CSC or RAIC; URL: <http://www.CCDC.org>.
 - .6 **CGA** - Canadian Gas Association, 20 Eglinton Avenue West, Suite 1305, Toronto, ON M4R 1K8; URL: <http://www.cga.ca..>

- .7 **CGSB** - Canadian General Standards Board, Place du Portage, Phase III, 6B1, 11 Laurier Street, Hull, QC K1A 0S5; URL: <http://w3.pwgsc.gc.ca/cgsb>.
- .8 **CISC** - Canadian Institute of Steel Construction, 201 Consumers Road, Suite 300, Willowdale, ON M2J 4G8; URL: <http://www.cisc-icca.ca>.
- .9 **CLA** - Canadian Lumbermen's Association, 27 Goulburn Avenue, Ottawa, ON K1N 8C7; URL: <http://www.cla-ca.ca>.
- .10 **CNLA** - Canadian Nursery Landscape Association, RR #4, Stn. Main, 7856 Fifth Street, Milton, ON L9T 2X8; URL: <http://www.canadanursery.com>.
- .11 **CRCA** - Canadian Roofing Contractors Association, 155 Queen Street, Suite 1300, Ottawa, ON K1P 6L1; URL: <http://www.roofingcanada.com>.
- .12 **CSA** - Canadian Standards Association International, 178 Rexdale Blvd., Toronto, ON M9W 1R3; URL: <http://www.csa-international.org>.
- .13 **CSC** - Construction Specifications Canada, 120 Carlton Street, Suite 312, Toronto, ON M5A 4K2; URL: <http://www.csc-dcc.ca>.
- .14 **CSDMA** - Canadian Steel Door Manufacturers Association, One Yonge Street, Suite 1801, Toronto, ON M5E 1W7; URL: <http://www.csdma.org>.
- .15 **CSPI** - Corrugated Steel Pipe Institute, 652 Bishop Street N, Unit 2A, Cambridge, ON N3H 4V6; URL: <http://www.cspi.ca>.
- .16 **CSSBI** - Canadian Sheet Steel Building Institute, 652 Bishop St. N., Unit 2A, Cambridge, ON N3H 4V6; URL: <http://www.cssbi.ca>.
- .17 **CUFCA** - Canadian Urethane Foam Contractor's Association, Box 3214, Winnipeg, MB R3C 4E7; URL: <http://www.cufca.ca>.
- .18 **CWC** - Canadian Wood Council, 1400 Blair Place, Suite 210, Ottawa, ON K1J 9B8; URL: <http://www.cwc.ca>.
- .19 **EC** - Environment Canada, Conservation and Protection, Inquiry Centre, 351 St. Joseph Blvd, Hull, QC KIA 0H3; URL: <http://www.ec.gc.ca>.
- .20 **EFC** - Electro Federation of Canada, 5800 Explorer Drive, Suite 200, Mississauga, ON L4W 5K9; URL: <http://www.electrofed.com>.
- .21 **MPI** - The Master Painters Institute, 4090 Graveley Street, Burnaby, BC V5C 3T6; URL: <http://www.paintinfo.com>.
- .22 **NABA** - National Air Barrier Association, PO Box 2747, Winnipeg, MB R3C 4E7; URL: <http://www.naba.ca>.
- .23 **NLGA** - National Lumber Grades Authority, 406-First Capital Place, 960 Quayside Drive, New Westminster, BC V3M 6G2; URL: <http://www.nlga.org>.
- .24 **NRC** - National Research Council, Building M-58, 1200 Montreal Road, Ottawa, ON K1A 0R6; URL: <http://www.nrc.gc.ca>.

- .25 **QPL** - Qualification Program List, c/o Canadian General Standards Board, Place du Portage, Phase III, 6B1, 11 Laurier Street, Hull, QC K1A 1G6; URL: <http://www.pwgsc.gc.ca/cgsb>.
- .26 **RAIC** - Royal Architectural Institute of Canada, 55 Murray Street, Suite 330, Ottawa, ON K1N 5M3; URL: <http://www.raic.org>.
- .27 **SCC** - Standards Council of Canada, 270 Albert Street, Suite 2000, Ottawa, ON K1P 6N7; URL: <http://www.scc.ca>.
- .28 **TTMAC** - Terrazzo, Tile and Marble Association of Canada, 30 Capston Gate, Unit 5 Concord, ON L4K 3E8; URL: <http://www.ttmac.com>.
- .29 **ULC** - Underwriters' Laboratories of Canada, 7 Crouse Road, Toronto, ON M1R 3A9; URL: <http://www.ulc.ca>.
- .3 USA Organizations:
 - .1 **AA** - Aluminum Association, 900 19th Street N.W., Washington, DC 20006; URL: <http://www.aluminum.org>.
 - .2 **AASHTO** - American Association of State Highway and Transportation Officials, 444 N Capitol Street N.W., Suite 249, Washington, DC 20001; URL: <http://www.aashto.org>.
 - .3 **AHA** - American Hardboard Association, 1210W Northwest Hwy, Palatine, IL 60067; URL: <http://www.hardboard.org>.
 - .4 **AITC** - American Institute of Timber Construction, 7012 S. Revere Parkway, Suite 140, Englewood, CO 80112; URL: <http://www.aitc-glulam.org>.
 - .5 **AMCA** - Air Movement and Control Association Inc., 30 West University Drive, Arlington Heights, IL 60004-1893; URL: <http://www.amca.org>.
 - .6 **ANSI** - American National Standards Institute, 25 West 43rd Street, 4th Floor, New York, NY 10036; URL: <http://www.ansi.org>.
 - .7 **APA** - The Engineered Wood Association, P.O. Box 11700, Tacoma, WA 98411-0700; URL: <http://www.apawood.org>.
 - .8 **API** - American Petroleum Institute, 1220 L St. Northwest, Washington, DC 20005-4070; URL: <http://www.api.org>.
 - .9 **ARI** - Air Conditioning and Refrigeration Institute, 4100 N Fairfax Drive, Suite 200, Arlington, VA 22203; URL: <http://www.ari.org>.
 - .10 **ASHRAE** - American Society of Heating, Refrigeration and Air-Conditioning Engineers, 1791 Tullie Circle NE, Atlanta, GA 30329; URL: <http://www.ashrae.org>.
 - .11 **ASME** - American Society of Mechanical Engineers, ASME Headquarters, 3 Park Avenue, New York, NY 10016-5990; URL: <http://www.asme.org>.

- .12 **ASTM International**, 100 Barr Harbor Drive West, Conshohocken, PA 19428-2959; URL: <http://www.astm.org>.
- .13 **AWCI** - Association of the Wall and Ceiling Industries International, 803 West Broad Street, Suite 600 , Falls Church, VA 22046; URL: <http://www.awci.org>.
- .14 **AWPA** - American Wire Producer's Association, 801 N Fairfax Street, Suite 211, Alexandria, VA 22314-1757; URL: <http://www.awpa.org>.
- .15 **AWPA** - American Wood Preservers' Association, P.O. Box 5690, Granbury TX 76049-0690; URL: <http://www.awpa.com>
- .16 **AWS** - American Welding Society, 550 N.W. LeJeune Road, Miami, FL 33126; URL: <http://www.amweld.org>.
- .17 **AWWA** - American Water Works Association, 6666 W. Quincy Avenue, Denver, CO 80235; URL: <http://www.awwa.org>.
- .18 **EIMA** - EIFS Industry Manufacturer's Association, 3000 Corporate Center Drive, Suite 270, Morrow, GA 30260; URL: <http://www.eima.com>.
- .19 **ISAP** - International Society for Asphalt Paving, 400 Selby Avenue, Suite 1, St. Paul, MN 55102; URL: <http://www.asphalt.org>.
- .20 **IEEE** - Institute of Electrical and Electronics Engineers, IEE Corporate Office, 3 Park Avenue, 17th Floor, New York, NY 10016-5997; URL: <http://www.ieee.org>
- .21 **MSS** - Manufacturers Standardization Society of the Valve and Fittings Industry, 127 Park Street, N.E., Vienna, VA 22180-4602; URL: <http://www.mss-hq.com>.
- .22 **NAAMM** - National Association of Architectural Metal Manufacturers, 8 South Michigan Avenue, Suite 1000, Chicago, IL 60603; URL: <http://www.naamm.org>.
- .23 **NEMA** - National Electrical Manufacturers Association, 1300 N 17th Street, Suite 1847, Rosslyn, VA 22209; URL: <http://www.nema.org>.
- .24 **NFPA** - National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101 Quincy, MA 02269-9101; URL: <http://www.nfpa.org>.
- .25 **NFSA** - National Fire Sprinkler Association, P.O. Box 1000, Patterson, NY 12563; URL: <http://www.nfsa.org>.
- .26 **NHLA** - National Hardwood Lumber Association, 6830 Raleigh-La Grange Road, Memphis, TN 38184-0518; URL: <http://www.natlhardwood.org>.
- .27 **NSPE** - National Society of Professional Engineers, 1420 King Street, Alexandria, VA 22314-2794; URL: <http://www.nspe.org>.
- .28 **PCI** - Prestressed Concrete Institute, 209 W. Jackson Blvd., Suite 500, Chicago, IL 60606-6938; URL: <http://www.pci.org>.

- .29 **PEI** - Porcelain Enamel Institute, PO Box 920220, Norcross, GA 30010; URL: <http://www.porecelainenamel.com>.
- .30 **SSPC** - The Society for Protective Coatings, 40 24th Street, 6th Floor, Pittsburgh, PA 15222-4656; URL: <http://www.sspc.org>.
- .31 **TPI** - Truss Plate Institute, 583 D'Onofrio Drive, Suite 200, Madison, WI 53719; URL: <http://www.tpinst.org>.
- .32 **UL** - Underwriters' Laboratories, 333 Pfingsten Road, Northbrook, IL60062-2096; URL: <http://www.ul.com>.

END OF SECTION

01 45 00 – Quality Control

1.0 GENERAL

1.1. RELATED SECTIONS

- .1 Section 01 21 00 - Allowances.
- .2 Section 01 78 10 – Closeout Submittals and Requirements
- .3 Section 01 79 00 – Demonstration and Training
- .4 This section describes requirements applicable to all Sections within Divisions 02 to 49.

1.2. REFERENCES

- .1 **ISO/IEC 17025-2005** - General Requirements for the Competence of Testing and Calibration Laboratories.
- .2 **SCC** (Standards Council of Canada).

1.3. INSPECTION BY AUTHORITY

- .1 Allow Authorities Having Jurisdiction access to Work. If part of Work is in preparation at locations other than Place of Work, allow access to such Work whenever it is in progress.
- .2 Give timely notice requesting inspection whenever portions of the Work are designated for special tests, inspections or approvals, either when described in the Contract Documents or when required by law in the Place of the Work.
- .3 If Contractor covers or permits to be covered Work that has been designated for special tests, inspections or approvals before such is made, uncover such Work, have inspections or tests satisfactorily completed and make good such Work.

1.4. REVIEW BY CONSULTANT

- .1 Consultant may order any part of the Work to be reviewed or inspected if Work is suspected to be not in accordance with Contract Documents.
- .2 If, upon review such work is found not in accordance with Contract Documents, correct such Work and pay the cost of additional review and correction.
- .3 If such Work is found in accordance with Contract Documents, The owner will pay the cost of review and replacement.

1.5. INDEPENDENT INSPECTION AGENCIES

- .1 Independent Inspection and Testing Agencies will be engaged by Contractor for the purpose of inspecting and testing portions of Work.
- .2 The Board may, at their discretion, request that the Consultant direct the Contractor to engage independent inspecting and or testing agencies to review or test the Work.
- .3 Allocate Costs for inspections and testing to Section 01 21 00.
- .4 Provide equipment required for executing inspection and testing by appointed agencies.
- .5 Employment of inspection and testing agencies does not relax responsibility to perform Work in accordance with Contract Documents.
- .6 If defects are revealed during inspection and/or testing, the appointed agency will request additional inspection and testing to ascertain the full degree of defect. Correct defects and irregularities as advised by the Consultant at no cost to the Owner. Contractor shall pay costs directly to the inspection agency for retesting and re-inspection.

1.6. ACCESS TO WORK

- .1 Allow inspection and testing agencies access to Work, off site manufacturing and fabrication plants.
- .2 Cooperate to provide reasonable access and facilities for such access.

1.7. CONTRACTOR RESPONSIBILITIES

- .1 Notify appropriate agency minimum 48 hours in advance of requirement for tests, in order that attendance arrangements can be made.
- .2 Submit samples and materials required for testing, as specifically requested in specifications. Submit with reasonable promptness and in an orderly sequence so as not to cause delay in Work.
- .3 Provide labour and facilities to obtain and handle samples and materials on site. Provide sufficient space to store and cure test samples.

1.8. DUTIES & AUTHORITY OF TESTING AGENCY

- .1 Testing agency is expected to do the following:
 - .1 Act in a professional and unprejudiced basis and carry out inspection and testing functions to establish compliance with requirements of Contract Documents.

- .2 Check work as it progresses and prepare reports stating results of tests and conditions of work and state in each report whether specimens tested conform to requirements of Contract Documents, specifically noting deviations.
- .3 Distribute reports as follows
 - .1 Consultant
 - .2 Owner
 - .3 Contractor
- .2 Testing agency is not authorized to amend or release any requirements of Contract Documents, nor to approve or accept any portion of work.

1.9. REJECTED WORK

- .1 The Contractor shall remove defective Work, whether result of poor workmanship, use of defective products or damage and whether incorporated in Work or not, which has been rejected by the Consultant as failing to conform to Contract Documents. Replace or re-execute in accordance with Contract Documents.
- .2 Make good other Contractor's work damaged by such removals or replacements promptly.
- .3 If, it is not expedient to correct defective Work or Work not performed in accordance with Contract Documents, the Owner may choose to accept the condition. The difference in value between Work performed and that called for by Contract Documents shall be deducted from the Contract value via Change Order. The amount of this change shall be determined by the Consultant. The Contractor shall warrant the work performed for the time period specified as if it were performed in accordance with the Contract Documents.

1.10. TESTING OF EXCAVATION & BACKFILL

- .1 The Consultant must approve all Sample and fill tests prior to purchase.
- .2 In coordination with the Consultant and Contractor, inspect and test backfill and fill to ensure the degree of compaction specified has been obtained.
- .3 Inspect excavation at required levels in regard to bearing values for footings, foundations and floor slabs.
- .4 Authorization and calculation of extra excavation work, if required, due to unsatisfactory bearing shall be adjusted by Unit Price.

1.11. CONCRETE STRENGTH TESTS

- .1 Review the proposed concrete mix design and check test if considered necessary.

- .2 Obtain representative samples of fresh concrete for each mix design of concrete placed in any one day as directed by the Consultant.
- .3 Make standard slump tests.
- .4 Mould three (3) standard 150mm diameter cylindrical test specimens from each sampling of fresh concrete. Store specimens as per best practice while they are on the site. Cure all cylinders in the laboratory under standard moisture and temperature conditions. Compression test one of the cylinders at 7 days and the remaining two at 28 days after sampling. Each concrete cylinder test report shall contain the specific location of concrete represented by sample, design strength, aggregate size, admixtures used, date, hour and temperature at time of sampling, percentage air content, unit weight and test strength of cylinder.
- .5 When concrete is placed under the conditions of "Cold Weather Requirements" make one additional cylinder; store it in a heated enclosure for 24 hours and then store it on the job site in a place protected from disturbance and off the ground. Compressive test this cylinder 7 days after sampling.
- .6 Determine the air content of air entrained standard weight concrete.
- .7 Determine the air content and unit weight of light weight concrete by the volumetric method.
- .8 Additional testing required because of changes in materials or proportions of the mix requested by the Contractor as well as any extra testing of concrete or materials occasioned by their failure to meet specification requirements or testing of the structure or performance of the structure, including load testing, shall be carried out at the Contractor's expense.

1.12. INSPECTION OF STRUCTURAL STEEL

- .1 Ensure all steel has mill test reports that comply with the Specification prior to purchase.
- .2 Inspect fabrication of steel in the plant.
- .3 Inspect erection work at site including fit-up, placing, plumbing, levelling, temporary bracing, field cutting and alterations.
- .4 Shop and field inspect welded and bolted connections and painting.
- .5 High strength bolts - the installation and testing of bolts shall conform to the requirements of CSA S16-1969. Check one representative connection in ten by torque testing every bolt, and check each bolt in every connection with a tap of hammer for soundness. Enforce requirements of connection type.
- .6 Examine visually all welded joints for inclusions, porosity, lack of fusion penetration or even contour, undercuts and cracks. Root passes shall be checked for penetration

and cracks from the back of the joint. Any suspect welds shall be checked ultrasonically.

1.13. INSPECTION OF METAL DECK

- .1 Check deck for gauge, type and protective coating thickness to ensure compliance with Specification.
- .2 Inspect erection work at the site including anchorage.

1.14. INSPECTION AND TESTING OF PAVING

- .1 Testing shall be carried out in three stages as described below by means of sufficient site visits to ensure satisfactory results but in no case less than three site visits.
- .2 Test within 16 hours from time called to do so by the Contractor, since paving is a critical item at the end of the project.
- .3 Stage One:
 - .1 Visual inspection and compaction tests of subsoil.
- .4 Stage Two:
 - .1 Inspection of granular sub-base (after each layer is placed or after the last layer is placed and compacted).
 - .2 On site density tests.
 - .3 Verify thickness of various levels. (Minimum of 4 checks shall be done on thickness in a paved area of 250m² or less, and 1 additional check for each additional 250m² or part thereof).
 - .4 Laboratory tests: moisture content and grading of materials.
- .5 Stage Three:
 - .1 Inspection of asphalt installation.
 - .2 Checking of thickness and density of material and checking suitability of equipment used.
- .6 Standard Proctor Test shall be carried out for all projects.
- .7 Further, grain size analysis and Marshall test shall be carried out if visual inspection is not satisfactory or, if there is reason to suspect materials supplied are not acceptable.
- .8 All laboratory tests shall be performed according to A.S.T.M. methods, latest revisions
- .9 Paving Contractor shall obtain from their supplier grading tables of materials used and submit them to the testing laboratory for approval. The paving contractor shall ensure material delivered complies with grading tables.

- .10 Be responsible for all approvals given to the Paving Contractor. At completion of the paving project, inform the Consultant all tests were performed according to the Specifications and the Contractor's performance has been approved.
- .11 The Consultant will not entertain any credits for work either not performed or incorrectly performed by the contractor. If thicknesses or consistencies of sub-base are not as specified, or if asphaltic material is not as specified, then the Contractor shall remove the same at their expense and provide proper specified materials.

1.15. BUILDING THERMOGRAPHIC SCAN

- .1 Upon completion of the Work, the Consultant and/or Owner may arrange for an independent agency to carry out a thermographic scan of the building to determine acceptability of thermal performance of the building envelope.
- .2 Consultant, prior to start of construction work, will designate a sample area of the building to include a portion of exterior wall and roof.
- .3 Consultant will implement a special inspection program for this sample area to be carried out as construction progresses. Contractor shall not cover any completed work until notifying the Consultant and receiving acceptance of completed work. Contractor shall remove and replace any work which is installed in contravention of this requirement.
- .4 Results of a thermographic scan of the entire building will be evaluated and compared to those of the sample area to determine acceptance or rejection of any part of the building envelope.
- .5 Contractor shall carry out remedial work as required to bring the quality of any rejected portion of the building envelope to that of the sample area. Contractor shall pay for costs of any follow-up thermographic scans required to determine acceptability of remedial work. This procedure shall be repeated until all parts of the building envelope have been accepted.

1.16. TESTS AND MIX DESIGNS

- .1 Furnish test results and mix designs as may be requested.
- .2 The cost of tests and mix designs beyond those called for in Contract Documents or beyond those required by law of Place of Work shall be appraised by Consultant and may be authorized as recoverable.

1.17. MOCK-UP

- .1 Prepare mock-up for Work specifically requested in specifications. Include for Work of all Sections required to provide mock-ups.

- .2 Prepare mock-ups for Consultants review with reasonable promptness and in an orderly sequence, so as not to cause any delay in Work.
- .3 Failure to prepare mock-ups in ample time is not considered sufficient reason for an extension of Contract Time and no claim for extension by reason of such default will be allowed.
- .4 If requested, Consultant will assist in preparing a schedule fixing dates for preparation.
- .5 Remove mock-up at conclusion of Work or when acceptable to the Consultant. Repair any damage and clean-up at place of mock-up.
- .6 Approved mock-up may remain as part of Work.

1.18. EQUIPMENT AND SYSTEMS

- .1 Submit adjustment and balancing reports for mechanical and electrical systems to the consultant.
- .2 Refer to Sections 01.78.10 and 01.79.00 for definitive requirements.

END OF SECTION

01 51 00 – Temporary Utilities

1.0 GENERAL

1.1. RELATED SECTIONS

- .1 Section 01 52 00 - Construction Facilities.
- .2 Section 01 53 00 - Temporary Construction.
- .3 This section describes requirements applicable to all Sections within Divisions 02 to 49.

1.2. INSTALLATION AND REMOVAL

- .1 Provide temporary utilities controls in order to execute work expeditiously.
- .2 Location of temporary facilities shall be subject to the Consultant's approval.
- .3 Salvage and assist in recycling products for potential reuse wherever possible.
- .4 Remove temporary facilities from the site when directed by the Consultant.

1.3. DEWATERING

- .1 Provide temporary drainage and pumping facilities to keep excavations and the site free from standing water. Provide necessary pumps (including spare pumps) and temporary drainage for keeping the Work free of water throughout the construction period. Locate sumps away from foundation elements. Control grading around excavation to prevent surface water from draining into excavation and from damaging adjoining property.

1.4. WATER SUPPLY

- .1 Provide continuous supply of potable water for construction use until such time as permanent municipal water supply is available.
- .2 Hose extensions to be provided by subcontractors requiring them.
- .3 For New Builds, arrange for connection with the appropriate utility company and pay all costs for installation, maintenance, removal, and usage costs until occupancy has been achieved.
- .4 For Additions and renovations the contractor can use existing Board service unless noted otherwise.

1.5. TEMPORARY HEATING AND VENTILATION

- .1 Provide temporary heating required during construction period, including unit rental costs, maintenance.

- .2 Provide temporary heating fuel, if not already available on site, until such time as a permanent natural gas line is installed, and thereafter fuel costs shall be borne by the Board. The Contractor shall provide all connections and piping between the permanent fuel source and the heating appliance(s).
- .3 Provide temporary heat and ventilation in enclosed areas as required to:
 - .1 Facilitate progress of Work.
 - .2 Protect Work and products against dampness and cold.
 - .3 Prevent moisture condensation on surfaces.
 - .4 Provide ambient temperatures and humidity levels for storage, installation and curing of materials.
 - .5 Provide adequate ventilation to meet health regulations for a safe working environment.
- .4 Maintain temperatures of minimum:
 - .1 10 degrees C in areas where construction is in progress, until takeover by the Board. Contractor to ensure temporary enclosures remain sealed and penetrations are repaired or closed in a timely fashion.
 - .2 16 degrees C in areas where finishes are in progress.
 - .3 16 degrees C in building once it is enclosed.
 - .4 Refer to other Sections for intermittent heating requirements up to 21 degrees C. Provide insulated tarp enclosures for openings as required to enclose the building after completion of main building shell components and roof.
 - .5 If the Contractor fails to ensure the temporary enclosures remained sealed (including temp doors when not in use) the Consultant and or the Board shall require the contractor to pay 40% of that months usage charge
- .5 Use forced hot air heaters. Open-flame type heaters or salamanders are not permitted. Ventilate direct fired heating units to the outside.
- .6 Uniformly distribute heat to avoid hot and cold areas and to prevent excessive drying.
- .7 Early heating of the building shell will be required to expedite interior finishing to meet the project schedule.
- .8 Ventilating:
 - .1 Prevent accumulations of dust, fumes, mists, vapours or gases in areas occupied during construction.
 - .2 Provide local exhaust ventilation to prevent harmful accumulation of hazardous substances into the atmosphere of occupied areas.
 - .3 Dispose of exhaust materials in a manner that will not result in harmful exposure to persons.

- .4 Ventilate storage spaces containing hazardous or volatile materials.
- .5 Ventilate temporary sanitary facilities.
- .6 Continue operation of ventilation and exhaust system for time after cessation of work process to assure removal of harmful contaminants.
- .7 Provide minimum 1 air change per hour for enclosed areas receiving architectural finishes.
- .8 Do not allow excessive build-up of moisture inside the building.
- .9 The permanent mechanical systems for the new building, when installed in safe operating conditions, may be used for temporary heating or cooling if approved in writing by the Consultant, without penalty to the warranty.
- .10 Follow the requirements of "Temporary Use of New Permanent Services and Equipment" if the permanent heating system installed under the contract is intended to be used for temporary heating during the construction.
- .11 Provide competent persons to operate and maintain permanent systems for the duration of temporary use period.
- .12 Perform required repairs and maintenance immediately after each inspection. Pay for operating costs. Upon termination of temporary use period, services and equipment shall be inspected, tested, adjusted, fitters replaced, balanced, cleaned and lubricated.
- .13 Permanent services and equipment shall be turned over to the Owner in new and perfect operating condition.
- .14 Use of permanent systems and equipment as temporary facilities shall not affect the guarantee conditions and guarantee period for such systems and equipment. Make due allowance to ensure Owner will receive full benefits of the equipment manufacturer's warranty from the date of Substantial Performance.
- .15 Ensure date of Substantial Performance of the Work and Warranties for heating system do not commence until entire system is in as near original condition as possible and is certified by Consultant.
- .16 Maintain strict supervision of operation of temporary heating and ventilating equipment to:
 - .1 Conform with applicable codes and standards.
 - .2 Enforce safe practices.
 - .3 Prevent abuse of services.
 - .4 Prevent damage to finishes.
 - .5 Vent direct-fired combustion units to outside.
- .17 Be responsible for damage to Work due to failure in providing adequate heat and protection during construction.

1.6. TEMPORARY POWER AND LIGHT

- .1 Provide temporary electrical service and system including lighting and power system for use by all Sections.
- .2 Contractor will provide a source for, and pay the costs of temporary power during construction for temporary lighting and operating of power tools until such time as a permanent source is available.
- .3 Contractor to ensure that the use of power from a source provided by the Board shall not exceed the capacity of the current use required for the operation of any existing facility.
- .4 Install and maintain temporary electrical service and systems in accordance with Construction Safety Association's "Temporary Wiring Standards on Construction Sites", the Ontario Electrical Code and other authorities having jurisdiction.
- .5 Provide at least one temporary panel on each floor with service capacity suitable for construction requirements and to authorities and utilities approval.
- .6 Provide temporary wiring with lighting to all areas of each floor to provide adequate lighting.
 - .1 Lighting levels must be maintained at a minimum of 10 foot candles, or to suit the particular location or operation, whichever is greater.
 - .2 Do not use materials of the temporary service in permanent installation.
 - .3 Increase lighting levels equivalent to the final requirements when finishing operations are underway.
- .7 Extension cords, lights, etc., required by various subcontractors and run from above outlet positions will be supplied and maintained by the party or parties requiring the same.
- .8 Follow requirements of "Temporary Use of New Permanent Services and Equipment" if electrical power and lighting systems installed under the contract are intended to be used for temporary electricity and lighting during the construction.
- .9 Electrical power and lighting systems installed under this contract can be used for construction provided damages are made good and all lamps that have been used for more than two months are replaced with new lamps.
- .10 For New Builds, arrange for connection with the appropriate utility company and pay all costs for installation, maintenance, removal and usage costs until occupancy has been achieved.
- .11 For Additions and renovations the contractor can use existing Board service unless noted otherwise.

- .12 Provide and pay for temporary power for electric cranes and other equipment requiring temporary power in excess of above noted requirements.

1.7. TEMPORARY COMMUNICATION FACILITIES

- .1 Contractor to provide and pay for temporary Phone, e-mail and printer hook up, for the duration of contract until completion for use by the contractor.
- .2 The site superintendent is to have email access and a printer on site.

END OF SECTION

01 53 00 – Temporary Construction Facilities

1.0 GENERAL

1.1. RELATED SECTIONS

- .1 Section 01 51 00 - Temporary Utilities.
- .2 Section 01 35 23 – Health and Safety
- .3 This section describes requirements applicable to all Sections within Divisions 02 to 49.

1.2. INSTALLATION AND REMOVAL

- .1 Provide temporary construction facilities in order to execute work expeditiously.
- .2 Remove temporary facilities from the site when directed by the Consultant.

1.3. PROTECTION FOR OFF-SITE AND PUBLIC PROPERTY

- .1 Protect surrounding private and public property from damage during performance of Work.
- .2 Be responsible for damage incurred.

1.4. PROTECTION OF SURROUNDING WORK

- .1 Provide protection for finished and partially finished Work from damage.
- .2 Provide necessary cover and protection.
- .3 Be responsible for damage incurred due to lack of or improper or inappropriate protection.

1.5. ROOF AND STRUCTURE PROTECTION

- .1 Ensure no part of Work or existing structures are subjected to a load, which will endanger its safety or will cause permanent deformation.
- .2 The Contractor when indicated by the Board Contact or Consultant shall provide roof protection. Ensure all precautions are taken to avoid liability for roof damage.
- .3 Typical roof protection shall consist of a layer of 1 inch rigid foam insulation set directly on the roof surface and a layer of 19 mm (3/4 inch) plywood in all places under scaffold legs, ladder legs and in areas of foot traffic or falling debris.

1.6. WORK SITE ENCLOSURE & SAFETY BARRIERS

- .1 Erect and maintain for the duration of the work:

- .1 a minimum 1800 mm high chain link fence or self-supporting, heavy duty, interconnected fence panels (commonly referred to as Insta-fence) for a temporary site enclosure (hoarding) completely around perimeter of work site,
 - .2 any temporary posts shall be completely removed by the contractor prior to occupancy,
 - .3 under no circumstance shall t-bar posts be used on board property
 - .4 any additional safety devices including full hoarding as required and noted on the drawings, to protect the students, staff, public and private property from injury and damage,
 - .5 any additional requirements as regulated by authorities having jurisdiction, local by-laws and zoning.
- .2 The Contractor is to assume full responsibility for any injury or damage caused due to failure to comply with Paragraph 1 above.
 - .3 Any hazardous conditions identified outside of the main fenced area will be barricaded with a fence complying to the above.
 - .4 Provide lockable truck entrance gate/gates and at least one (1) pedestrian door as directed and conforming to applicable traffic restrictions on adjacent streets. Equip gates with locks and keys with restricted availability, in the project office.
 - .5 Erect and maintain pedestrian walkways including roof and side covers, complete with signs and electrical lighting as required by law.
 - .6 Provide barriers around trees and plants designated to remain.
 - .7 Protect from damage by equipment and construction procedures.

1.7. TREE PROTECTION

- .1 Protect all existing trees to remain from damage during construction period. Make good, at Contractor's expense, trees damaged during construction.
- .2 Confine movement of heavy equipment, storage of same, and storage of materials to a predetermined area. Do not store materials or place equipment over root systems of any existing trees to remain.
- .3 Install fencing or approved equal at limits of drip line of existing trees to remain unless directed otherwise. Where this case is not practical, and only if approved by the Consultant, the trunks shall be protected with an approved tree guard.
- .4 No rigging cables shall be wrapped around or installed in trees. Do not flush concrete trucks or cement mixing machines over root systems or near trees. Flush concrete trucks or cement mixing machines in areas approved by the Consultant.
- .5 Areas where root systems of trees are exposed directly adjacent to a structure will be backfilled with good loam only.

- .6 Whenever excavating is required within branch spread of trees that are to remain, the contractor shall contact the consultant for direction prior to the start of work.
- .7 If any existing tree to remain is injured and does not survive the following year, it will, as determined by the Board, be removed in its entirety and be replaced with a tree of similar size and value, as directed by the Consultant.
- .8 Should the destroyed tree be of such a size or shape that it cannot be feasibly replaced, the Contractor shall compensate the Owner for the minimum sum of five thousand dollars (\$5,000.00) per destroyed tree.

1.8. GUARD RAILS AND BARRIERS

- .1 Provide secure, rigid guard rails and barricades around deep excavations, open shafts, open stairwells, open edges of floors and roofs.
- .2 Erect and maintain for the duration of the Work, safety devices and barricades including hoarding, as required, to protect the staff, students, public and private property, from injury and damage.
- .3 The Contractor is to ensure that all requirements from authorities having jurisdiction and all requirements from the Owner are met.
- .4 The Contractor is to assume full responsibility for any damage caused due to his failure to comply with paragraph 2 above.
- .5 Hazardous conditions on the exterior shall be fenced.

1.9. WEATHER ENCLOSURES

- .1 Provide weather-tight closures to unfinished door and window openings, tops of shafts and other openings in floors and roofs.
- .2 Close off floor areas where walls are not finished; seal off other openings; enclose building interior work for temporary heat.
- .3 Design enclosures to withstand wind pressure.

1.10. DUST TIGHT BARRIERS

- .1 Provide dust tight barriers and screens or partitions to localize dust generating activities, and for protection of workers, finished areas of Work and public.
- .2 Maintain and relocate protection until such work is complete.
- .3 Where required, adjust air handling units to eliminate migration of dust.

1.11. SCAFFOLDING

- .1 Erect scaffolding independent of walls and use in such a manner limiting interference with other work. When not in use, move scaffolding as necessary to permit installation of other work. Construct and maintain scaffolding in a rigid, secure and safe manner. Remove it promptly when no longer required. Protect the surface on which scaffolding is bearing.

1.12. SHORING, BRACING, PILING

- .1 Provide shoring, bracing, piling, sheeting and sheet piling and underpinning required to support soil banks, existing work and property in accordance with Construction Safety Act and other applicable regulations. Maintain shoring until the building is strong enough and sufficiently braced to withstand pressure of backfilling. Make construction aids free of permanent work so they may be removed entirely when no longer required, without damaging the Work. Locate construction aids so adequate room is left for damp-proofing foundation walls, laying substructure drainage and other work.
- .2 Shoring and false work over one tier in height shall be designed and shall bear the stamp of a registered professional engineer, having experience in this field.

1.13. HOISTING

- .1 Provide, operate and maintain services required for moving of workers, materials and equipment. Make financial arrangements with Subcontractors for use thereof.
- .2 Machinery shall be operated by qualified operator.

1.14. OVERHEAD LIFTING

- .1 Any condition requiring the use of a crane or lifting device over a Board structure must follow the requirements of Health and Safety Section 01 35 23, Paragraph 1.15 Overhead Lifting.

1.15. ELEVATORS/LIFTS

- .1 When elevators/lifts are to be used by construction personnel, provide protective coverings for finish surfaces of elevator cabs and entrances.
- .2 Co-ordinate use of elevator cabs with Consultant and the Board.

1.16. USE OF THE WORK

- .1 Confine work and operations of employees by Contract Documents. Do not unreasonably encumber premises with Products.

- .2 Do not load or permit to load any part of Work with a weight or force that will endanger the Work.

1.17. CONSTRUCTION PARKING

- .1 Construction personnel vehicle parking, to be confined to the work site enclosure, or.
- .2 Parking will be permitted on site only where and if it does not disrupt the employees of the place of work as directed by the Board
- .3 Permission to park vehicles on site does not imply any liability or responsibility for safe keeping of vehicles and contents thereof by the School Board.

1.18. ACCESS TO SITE

- .1 Provide and maintain adequate access to the project site.
- .2 Build and maintain temporary roads where necessary and provide snow removal within the area of work, and access to the work, during the period of Work. The area shall be restored to the satisfaction of the Board at the completion of the project.
- .3 If authorized to use existing roads for access to project site, maintain such roads for duration of Contract and make good damage resulting from Contractors' use of roads.
- .4 Clean roadways and taxi areas where used by Contractor's equipment.

1.19. SECURITY

- .1 The Contractor shall ensure the security of the work site, contents, and built structures for the duration of the project.
- .2 The Contractor shall be responsible to provide and pay for security personnel to guard the site and contents of the site after working hours and during holidays as required.
- .3 Notify the Board of the use of security guards or systems.
- .4 The Board shall not be responsible for the loss, theft, or vandalism.

1.20. OFFICES

- .1 Provide and maintain, until completion of Contract, for Contractor's use, a temporary office, large enough to accommodate site administrative activities and site meetings, complete with light, heat, air conditioning, ventilation, table and chairs. Do not store materials in the office area; keep clean and tidy.
- .2 Provide a clearly marked and fully stocked first-aid case in a readily available location.

- .3 Subcontractors may provide their own offices as necessary. Direct location of these offices.

1.21. EQUIPMENT, TOOL AND MATERIALS STORAGE

- .1 Provide and maintain, in a clean and orderly condition, lockable weatherproof sheds and platforms for storage of tools, equipment and materials.
- .2 Review storage areas on site with the Consultant. Store materials and equipment to ensure preservation of quality of product and fitness for the Work. Store materials and equipment on wooden platforms or other hard, clean surfaces, raised above the ground or in water tight storage sheds of sufficient size for storage of materials and equipment which might be damaged by storage in the open. Locate stored materials and equipment to facilitate prompt inspection.
- .3 Store packaged materials and equipment undamaged, in their original wrappings or containers, with manufacturer's labels and seals intact.
- .4 Locate materials not required to be stored in weatherproof sheds on site in a manner to cause least interference with work activities.
- .5 Storage sheds required by subcontractors shall be provided by them.

1.22. SANITARY FACILITIES

- .1 Provide weatherproof temporary toilet/sanitary facilities for the work force in accordance with governing regulations and ordinances.
- .2 Service temporary toilet/sanitary facilities as required by authorities but not less than weekly.
- .3 Post notices and take such precautions as required by local health authorities.
- .4 The use of existing washroom facilities is not allowed unless specifically approved by the Board. The Contractor will be required to clean and maintain the existing washrooms to Board standards.
- .5 Except where connected to the municipal sewer system, periodically remove wastes from Site.
- .6 Keep toilet/sanitary facilities clean and sanitary and protect from freezing.
- .7 Keep sanitary facilities clean and fully stocked with the necessary supplies at all times.

END OF SECTION

01 54 00 – Materials and Equipment

1.0 GENERAL

1.1. RELATED SECTIONS

- .1 This section describes requirements applicable to all Sections within Divisions 02 to 49

1.2. PRODUCT AND MATERIAL QUALITY

- .1 Products, materials, equipment and articles referred to as “Products”; throughout the specifications incorporated in the Work, shall be new, not damaged or defective, and of the best quality, compatible with specifications for the purpose intended. If requested, furnish evidence as to type, source and quality of products provided.
- .2 Defective products will be rejected, regardless of previous inspections. Inspection does not relieve responsibility, but is a precaution against oversight or error. Remove and replace defective products at own expense, and be responsible for delays and expenses caused by rejections.
- .3 Should any dispute arise as to the quality or fitness of products, the decision rests strictly with the Board contact, based upon requirements of the Contract Documents.
- .4 Current Material Safety Data Sheets shall be on file with the successful Contractor and shall be provided to the Board contact upon request, within twenty-four (24) hours.
- .5 Material safety data sheets are not required for products currently WHMIS exempt.

1.3. EQUIPMENT/TOOL MATERIALS STORAGE, HANDLING, AND PROTECTION

- .1 Handle and store products in a manner to prevent damage, adulterations, deterioration, and soiling, and in accordance with manufacturer’s instructions.
- .2 Store packaged or bundled products in original and undamaged condition, with manufacturer’s seals and labels intact.
- .3 Store products subject to damage from weather in weatherproof enclosures.
- .4 Provide and maintain tools, equipment and materials in a clean and orderly condition. Board tools, ladders, lifts, power cords, flashlights etc. are not to be used.
- .5 Materials are to be stored in a manner to cause the least interference with Work activities.

- .6 The Contractor shall determine with the Board contact, prior to ordering materials, those locations that are suitable for receiving and storage of materials and equipment.
- .7 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.
- .8 Vehicles, trailers or other similar apparatus may not be stored or parked overnight at site without written authorization from Board contact. Written requests are to be forwarded directly to the Board contact.
- .9 Approval for parking does not imply any liability or responsibility for safe keeping by the Board.
- .10 The Contractor may use the existing electrical and water services, as required, for the Work, and the costs of these services shall be borne by the Board.

1.4. WORKMANSHIP

- .1 Workmanship shall be the best quality, executed by Workers experienced and skilled in the respective duties for which they are employed. Immediately notify the Consultant if required Work is such as to make it impractical to produce required results.
- .2 Do not employ any unfit persons or anyone unskilled in their required duties.
- .3 Decisions as to the quality or fitness of Workmanship in cases of dispute rest solely with the Board contact, whose decision is final.
- .4 All Contractor personnel are restricted to the job site and necessary access routes. No personnel shall visit other areas or buildings without specific authorization.
- .5 The Contractor shall make their own arrangements for emergency treatment of accidents.
- .6 Any accidents shall be reported immediately to the Board contact.
- .7 The Contractor agrees to hold the Board harmless of any and all liability of every nature and description, which may be suffered through bodily injuries, involving deaths of any persons, by reasons of negligence of the Contractor, his agents, employees, or his Subcontractors.
- .8 The Contractor shall supply constant on-site supervision in the form of a Project Superintendent. The Project Superintendent shall have within their authority to negotiate minor changes regarding scheduling, manpower and equipment.

1.5. MANUFACTURER'S INSTRUCTIONS

- .1 Unless otherwise indicated in the specifications, install, apply or erect products in accordance with manufacturer's instructions. Do not rely on labels or enclosures provided with products. Obtain written instructions directly from manufacturers.

1.6. TOOLS OF THE TRADE

- .1 The Board will not pay the Awarded Bidder a fee for tools and equipment that are considered "tools of the trade" that are required to perform the work in this Tender or any change orders.

1.7. EXISTING EQUIPMENT

- .1 Contractor shall demolish and dispose of all existing equipment specified to be removed and or replaced including obsolete services not being reused. The Board shall have first rights of refusal on all demolished equipment and or parts and the Contractor shall provide a minimum of (5) working days notice prior to disposal of the equipment, parts, or equipment and set aside same in a suitable location to be recovered by Board technicians.

END OF SECTION

01 61 00 – Product Requirements

1.0 GENERAL

1.1. RELATED SECTIONS

- .1 This section describes requirements applicable to all Sections within Divisions 02 to 49.
- .2 Section 01 31 00 – Project Managing and Coordination

1.2. TERMINOLOGY

- .1 New: Produced from new materials.
- .2 Renewed: Produced or rejuvenated from an existing material to like-new condition to serve a new or existing service.
- .3 Defective: A condition determined exclusively by the Consultant.

1.3. PRODUCT QUALITY

- .1 The term 'new' in the following paragraph does not exclude re-manufactured products that have some or all of the materials recycled from other sources. Preference in recycling is for post-consumer recycled materials.
- .2 Products, materials, equipment, parts or assemblies (referred to as Products) incorporated in Work:
- .3 New Product, not damaged or defective, of best quality (compatible with specification requirements) for purpose intended. If requested, provide evidence as to type, source and quality of Products provided.
- .4 Defective Products, whenever identified prior to completion of Work, will be rejected, regardless of previous inspections. Inspection does not relieve responsibility, but is precaution against oversight or error. Remove and replace defective Products at own expense and be responsible for delays and expenses caused by rejection.
- .5 Should any dispute arise as to the quality or fitness of Products, decision rests strictly with Consultant.
- .6 Unless otherwise indicated in specifications, maintain uniformity of manufacture for any particular or like item throughout the building.

1.4. AVAILABILITY

- .1 Immediately upon receipt of the Board's Purchase Order, review Product delivery requirements and anticipate foreseeable supply delays for any items.
- .2 Immediately upon receipt of the Board's Purchase Order the Contractor shall issue Purchase Orders and or Contracts to all Sub-trades. Provide proof to the Consultant and the Board within 3 days. The Subcontractors shall identify in writing any delivery issues within 14 days of receiving the Contractor's purchase order or contract. The Schedule noted in 01-31 00 1.7.1 shall incorporate all deliveries and installation.
- .3 If delays in supply of Products are foreseeable, notify Consultant of such, in order that substitutions or other remedial action may be authorized in ample time to prevent delay in performance of Work.
- .4 In the event of failure to notify Consultant at commencement of Work and should it subsequently appear that Work may be delayed for such reason, Consultant reserves the right to substitute more readily available Products of similar character, at no increase in Contract Price or Contract Time.

1.5. STORAGE AND PROTECTION

- .1 Store and protect Products in accordance with manufacturers' written instructions.
- .2 Store with seals and labels intact and legible.
- .3 Store sensitive Products in weather tight, climate controlled, enclosures in an environment favourable to Product.
- .4 For exterior storage of fabricated Products, place on sloped supports above ground.
- .5 Cover Products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of Products.
- .6 Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.
- .7 Provide equipment and personnel to store Products by methods to prevent soiling, disfigurement, or damage.
- .8 Arrange storage of Products to permit access for inspection. Periodically inspect to verify Products are undamaged and are maintained in acceptable condition.

1.6. TRANSPORTATION AND HANDLING

- .1 Transport and handle Products in accordance with manufacturer's written instructions.
- .2 Promptly inspect shipments to ensure that Products comply with requirements, quantities are correct, and Products are undamaged.
- .3 Provide equipment and personnel to handle Products by methods to prevent soiling, disfigurement, or damage.

- .4 Suitably pack, crate and protect products during transportation to site to preserve their quality and fitness for the purpose intended.
- .5 Store products in original, undamaged condition with manufacturer's labels and seals intact until they are being incorporated into completed work.
- .6 Protect materials from damage by extreme temperatures or exposure to the weather.

1.7. EXISTING UTILITIES

- .1 When breaking into or connecting to existing services or utilities, execute Work at times directed by local governing authorities, with minimum disturbance to the owner.
- .2 Protect, relocate or maintain existing active services. When services are encountered, cap off in a manner approved by authority having jurisdiction. Stake and record location of capped service.

1.8. MANUFACTURER'S WRITTEN INSTRUCTIONS

- .1 Unless otherwise indicated in specifications, install or erect Products to manufacturer's written instructions. Do not rely on labels or enclosures provided with Products. Obtain written instructions directly from manufacturers.
- .2 Notify Consultant in writing, of conflicts between specifications and manufacturer's instructions, so that Consultant may establish course of action.
- .3 Improper installation or erection of Products, due to failure in complying with these requirements, authorizes Consultant to require removal and reinstallation at no increase in Contract Price or Contract Time.

1.9. QUALITY OF WORK

- .1 Ensure Quality of Work is of highest standard, executed by workers experienced and skilled in respective duties for which they are employed. Immediately notify Consultant if required Work is such as to make it impractical to produce required results.
- .2 Do not employ anyone unskilled in their required duties. Consultant and or Board reserves right to require dismissal from site any workers deemed incompetent or careless.
- .3 Decisions as to standard or fitness of Quality of Work in cases of dispute rest solely with Consultant, whose decision is final.

- .4 Products, materials, systems and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned in accordance with the applicable manufacturer's printed directions.
- .5 Where specified requirements are in conflict with manufacturer's written directions, follow manufacturer's directions. Where specified requirements are more stringent than manufacturer's directions, comply with specified requirements.

1.10. COORDINATION

- .1 Ensure cooperation of workers in laying out Work. Maintain efficient and continuous supervision.
- .2 Be responsible for coordination and placement of openings, sleeves and accessories.
- .3 Contractor is responsible to ensure suppliers or distributors of materials specified or alternatives accepted, which he intends to use, have materials with original schedule, and similarly it shall be the responsibility of all subcontractors and suppliers to so inform the Contractor.
- .4 Contractor shall contact Consultant immediately upon receipt of information indicating materials or items, will not be available on time, in accordance with the latest approved schedule, and similarly it shall be the responsibility of all subcontractors and suppliers to so inform the Contractor.
- .5 The above, in no way releases the Contractor, or their subcontractors and suppliers of their responsibility for ensuring timely ordering of materials and items required, including the necessary expediting, to complete the Work as scheduled in accordance with the Contract Documents including temp accommodations and or materials to ensure occupancy date is achieved.

1.11. CONCEALMENT

- .1 In finished areas, conceal pipes, ducts and wiring in floors, walls and ceilings, except where indicated otherwise.
- .2 Before installation, inform the Consultant if there is interference. Install as directed by the Consultant at no additional cost to the Board.

1.12. REMEDIAL WORK

- .1 Perform remedial work required to repair or replace parts or portions of Work identified as defective or unacceptable. Coordinate adjacent affected Work as required.
- .2 Perform remedial work by specialists familiar with materials affected. Perform in a manner to neither damage nor put at risk any portion of Work.

1.13. LOCATION OF FIXTURES

- .1 Inform Consultant of conflicting installation. Install as directed.

1.14. FASTENINGS - EQUIPMENT

- .1 Use fastenings of standard commercial sizes and patterns with material and finish suitable for service.
- .2 Use heavy hexagon heads, semi-finished unless otherwise specified. Use Type 304 or 316 stainless steel for exterior areas.
- .3 Bolts may not project more than one diameter beyond nuts.
- .4 Use plain type washers on equipment, sheet metal and soft gasket lock type washers where vibrations occur. Use resilient washers with stainless steel.

1.15. PROTECTION OF WORK IN PROGRESS

- .1 Prevent overloading of any part of the Project.
- .2 Do not cut, drill or sleeve any load bearing structural member, unless specifically indicated, without written approval of the Consultant.

END OF SECTION

01 70 00 – Examination and Preparation

1.0 GENERAL

1.1. RELATED SECTIONS

- .1 This section describes requirements applicable to all Sections within Divisions 02 to 49.

1.2. REFERENCES

- .1 Owner's identification of existing survey control points and property limits.

1.3. SUBMITTALS

- .1 Submit name and address of Surveyor to Consultant.
- .2 On request of Consultant, submit documentation to verify accuracy of field engineering work.
- .3 Submit certificate signed by surveyor certifying that elevations and locations of completed Work conforms with Contract Documents.

1.4. QUALIFICATIONS OF SURVEYOR

- .1 Qualified registered land surveyor, licensed to practice in the Place of the Work.

1.5. SURVEY REFERENCE POINTS

- .1 Existing base horizontal and vertical control points are designated on Drawings.
- .2 Locate, confirm and protect control points prior to starting site Work. Preserve permanent reference points during construction.
- .3 Make no changes or relocations without prior written notice to the Consultant.
- .4 Report to Consultant when reference point is lost or destroyed, or requires relocation because of necessary changes in grades or locations.
- .5 Require the surveyor to replace control points in accordance with original survey control.

1.6. SURVEY REQUIREMENTS

- .1 Establish existing and new permanent bench marks on site, referenced to established benchmarks by survey control points.
- .2 Record locations, with horizontal and vertical data in Project Record Documents.
- .3 Establish lines and levels, locate and lay out, by instrumentation.
- .4 Establish pipe invert elevations.

- .5 Stake batter boards
- .6 Establish foundation and floor elevations.
- .7 Establish lines and levels for mechanical and electrical work.

1.7. SUBSURFACE CONDITIONS

- .1 Promptly notify Consultant in writing if discovered surface or subsurface conditions at Place of Work differ materially from those indicated in Contract Documents.
- .2 Advise the Consultant of a reasonable assumption of probable conditions when determined.
- .3 After prompt investigation, should Consultant determine that conditions do differ materially, instructions will be issued for changes in Work.

1.8. EXAMINATION

- .1 The Contractor is expected to be totally familiar with site conditions and shall assume full responsibility for the cost involved in repairing any damage to the building, site and services, city property, adjacent buildings, etc., during general construction, regardless of the extent of the damage.
- .2 Inspect existing conditions, including elements or adjacent Work subject to irregularities, damage, movement, including Work during cutting and patching.
- .3 The Contractor shall provide all equipment necessary to make a full and detailed site evaluation. This shall include but not be limited to ladders, flashlights and hand tools.
- .4 The Contractor expressly agrees that conditions above existing suspended acoustic ceilings, but below fixed structure, unless obscured by an additional ceiling above, shall be considered exposed conditions for the purposes of making findings under the provisions of the Contract. There shall be no claims for extra costs for extra Work in these areas.
- .5 After uncovering, inspect conditions affecting performance of the Work.
- .6 Beginning of cutting or patching means acceptance of existing conditions.

1.9. PREPARATION

- .1 Provide supports to assure structural integrity of surroundings; provide devices and methods to protect other portions of the project from damage.
- .2 Provide protection from elements for areas which may be exposed by uncovering work; maintain excavations free of water.

1.10. EXISTING SERVICES

- .1 Before commencing work, establish location and extent of service lines in the area of Work and notify the Consultant of findings.
- .2 Remove abandoned service lines running through existing and new structures. Cap or seal lines at cut-off points as directed by the Consultant.

1.11. LOCATION OF EQUIPMENT AND FIXTURES

- .1 Inform Consultant of conflicting installations, install as directed.
- .2 Locate equipment, fixtures and distribution systems to provide minimum interference and maximum usable space and in accordance with manufacturer's recommendations for safety, access and maintenance.
- .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.

1.12. SURVEY RECORD

- .1 Maintain a complete, accurate log of control and survey work as it progresses.
- .2 On completion of foundations and major site improvements, prepare a certified survey showing dimensions, locations, angles and elevations of Work.
- .3 Record locations of maintained, re-routed and abandoned service lines.

END OF SECTION

SECTION 01 73 30 – EXECUTION AND CUTTING AND PATCHING

1.0 GENERAL

1.1. RELATED SECTIONS

- .4 Section 01 32 00 - Construction Progress Documentation: Submittals and scheduling.
- .5 Section 01 61 00 - Product Requirements.
- .6 Section 01 70 00 – Examination and Preparation
- .7 Individual Product Specification Sections:
 - .1 Cutting and patching incidental to work of the section.
 - .2 Advance notification to other sections of openings required in Work of those sections.

1.2. SUBMITTALS

- .8 Submit written request in advance of cutting or alteration which affects:
 - .1 Structural integrity of any element of Project.
 - .2 Integrity of weather exposed or moisture resistant element.
 - .3 Efficiency, maintenance, or safety of any operational element.
 - .4 Visual qualities of sight exposed elements.
 - .5 Work of Owner or separate contractor.
- .9 Include in request:
 - .1 Identification of Project.
 - .2 Location and description of affected Work.
 - .3 Necessity for cutting or alteration.
 - .4 Description of proposed Work and Products to be used.
 - .5 Alternatives to cutting and patching.
 - .6 Effect on work of Owner or separate contractor.
 - .7 Written permission of affected separate contractor.
 - .8 Date and time work will be executed.

1.3. TOLERANCES

- .10 Monitor fabrication and installation tolerance control of Products to produce acceptable Work.
- .11 Do not permit tolerances to accumulate beyond effective or practical limits.
- .12 Comply with manufacturers' tolerances. In case of conflict between manufacturers' tolerances and Contract Documents, request clarification from the Consultant before proceeding.

- .13 Adjust Products to appropriate dimensions; position and confirm tolerance acceptability, before permanently securing Products in place.

2.0 PRODUCTS

2.1. MATERIALS

- .1 Primary Products: Those required for original installation.
- .2 Product Substitution: For any proposed change in materials, submit a request for substitution described in Section 01 33 00.

3.0 EXECUTION

3.1. EXAMINATION

- .1 Examine existing conditions prior to commencing Work, including elements subject to damage or movement during cutting and patching.
- .2 After uncovering existing Work, assess conditions affecting performance of work.
- .3 Beginning of cutting or patching means acceptance of existing conditions.

3.2. PREPARATION

- .1 Provide temporary supports to ensure structural integrity of the Work. Provide devices and methods to protect other portions of the Project from damage.
- .2 Provide protection from elements for areas which may be exposed by uncovering work.
- .3 Maintain excavations free of water.

3.3. CUTTING

- .1 Execute cutting and fitting as needed to complete the Work. Prior to any cutting and or coring of concrete floors the contractor shall confirm the area is free of services or rebar. Notify the Consultant of any interferences.
- .2 Uncover work to install improperly sequenced work.
- .3 Remove and replace defective or non-conforming work.
- .4 Remove samples of installed work for testing for Hazardous materials.
- .5 Provide openings in the Work for penetration of mechanical and electrical work.
- .6 Employ experienced installer to perform cutting for weather exposed and moisture resistant elements, and sight exposed surfaces.
- .7 Cut rigid materials using a masonry saw or core drill. Pneumatic tools are not allowed without prior approval.

- .8 Do all cutting, patching, and making good, to leave a finished condition and to make the several parts of the work come together properly. Coordinate work to keep cutting and patching to a minimum.
- .9 Make cuts with clean, true, smooth edges. Fit unit to tolerance established by test standard practice for applicable work. Make patches invisible in the final assembly.
- .10 Cutting shall be done in a manner to keep patching to minimum. Obtain Consultant's approval of method to be used to conceal new mechanical and electrical services before beginning cutting. Chasing of concrete surfaces is not permitted.
- .11 Cutting or coring of any structural concrete is to be reviewed and approved by the Consultant.
- .12 Do not endanger any work by cutting, digging or otherwise altering, and do not cut nor alter any load bearing element without written authorization by Consultant. Provide bracing, shoring and temporary supports as required to keep construction safely supported at all times
- .13 Any cost caused by omission or ill-timed work shall be borne by the party responsible thereof.
- .14 Regardless of which Section of work is responsible for any portion of cutting and patching, in each case tradesmen qualified in work being cut and patched shall be employed to ensure it is correctly done.

3.4. PATCHING

- .1 Execute patching to complement adjacent Work.
- .2 Fit Products together to integrate with other Work.
- .3 Execute work by methods to avoid damage to other Work, and which will provide appropriate surfaces to receive patching and finishing.
- .4 Employ original installer to perform patching for weather exposed and moisture resistant elements, and sight-exposed surfaces.
- .5 Restore work with new Products in accordance with requirements of Contract Documents.
- .6 Fit work with adequate support to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.
- .7 At penetrations of fire rated walls, partitions, ceiling, or floor construction, completely seal voids with firestop material.
- .8 Refinish surfaces to match adjacent finish. For continuous surfaces, refinish to the nearest intersection or natural break. For an assembly, refinish the entire unit.
- .9 Complete and tightly fit all construction to pipes, ducts and conduits which pass through construction to completely prevent the passage of air.

- .10 Patching and making good shall be done by trade specialists in material to be treated, and shall be made undetectable in finished work when viewed from a distance of 1.5m under normal lighting.

END OF SECTION

01 74 00 – Cleaning and Waste Management

1.0 GENERAL

1.1. RELATED SECTIONS

- .1 Common Work by All Trades
- .2 This section describes requirements applicable to all Sections within Divisions 02 to 49.
- .3 Conduct cleaning and disposal operations to comply with local ordinances and environmental protection legislation.
- .4 Store volatile wastes in covered metal containers, and remove them from premises at the end of each working day.
- .5 Provide adequate ventilation during use of volatile or noxious substances. Use of building ventilation systems is not permitted for this purpose.

2.0 PRODUCTS

2.1. CLEANING PRODUCTS

- .1 Cleaning Agents and Materials: Low VOC content wherever possible. The Consultant and the Board shall be notified prior to use of any exception.

3.0 EXECUTION

3.1. CLEANING DURING CONSTRUCTION

- .1 Maintain the Work in tidy condition, free from accumulation of waste products and debris, other than that caused by the Owner or other Contractors.
- .2 Remove waste material and debris from the work areas and deposit in a waste container at the end of each working day.
- .3 Vacuum clean interior areas prior to the start of finishing work. Maintain areas free of dust and other contaminants during finishing operations.
- .4 Individual Subcontractors are responsible for the daily clean-up and removal of debris related to, or generated by, their own work. The overall responsibility for project cleanliness rests with the Contractor.
- .5 The Contractor shall be responsible for snow removal within the construction area.
- .6 Make arrangements with and obtain permits from authorities having jurisdiction for disposal of waste and debris.
- .7 Wherever possible recycle materials

- .8 Containers:
 - .1 Provide adequate number and sizes of on-site garbage and recycling containers within designated work site as required for collection of waste materials and debris on a daily basis.
 - .2 Provide additional waste containers when the extent of work warrants.
 - .3 Provide and use clearly marked, separate bins for recycling.
- .9 Dispose of waste materials and debris at registered waste disposal and recycling facility.
- .10 Remove oily rags, waste and other hazardous substances from premises at close of each day, or more often when required.
- .11 Schedule cleaning operations so that resulting dust, debris and other contaminants will not fall on wet, newly painted surfaces nor contaminate building systems.

3.2. WASTE MANAGEMENT

- .1 Audit, separate and dispose of construction waste generated by new construction or by demolition of existing structures in whole or in part, in accordance with Ontario Regulations 102/94 and 103/94 made under the Environmental Protection Act.
- .2 Containers:
 - .1 Provide adequate number and sizes of on-site garbage and recycling containers within designated work site as required for collection of waste materials and debris on a daily basis.
 - .2 Provide additional waste containers when the extent of work warrants.
 - .3 Provide and use clearly marked, separate bins for recycling.
- .3 Fires, and burning of rubbish or waste on site is strictly prohibited.
- .4 Burying of rubbish or waste materials on site is strictly prohibited.
- .5 Disposal of waste or volatile materials such as mineral spirits, oil, gasoline or paint thinner into ground, waterways, or sewer systems is prohibited.
- .6 Empty waste containers on a regular basis to prevent contamination of site and adjacent properties by wind-blown dust or debris

3.3. PREPARATION FOR FINAL CLEANING

- .1 Prior to final cleaning the General Contractor shall:
 - .1 remove all surplus products, tools, construction machinery and equipment not required for the performance of remaining work, and thereafter remove any remaining materials, equipment, waste and debris,
 - .2 replace all filters installed on any equipment in operation in the area of work,

- .3 remove all paint spots or overspray from all affected surfaces, and

3.4. FINAL CLEANING PRIOR TO ACCEPTANCE: INTERIOR

- .1 Prior to applying for Substantial Performance of the Work, or, prior to Owner occupancy of the building or portion of the building affected by the Work, whichever comes first, conduct full and complete final cleaning operations for the areas to be occupied.
- .2 Final cleaning operations shall be performed by an experienced professional cleaning company, possessing equipment and personnel sufficient to perform full building cleaning operations. Contractors “broom cleaning” is not acceptable as a “Final Clean”. The cleaning contractor shall:
 - .1 clean interiors of all millwork and surfaces of any furniture and equipment present,
 - .2 use only cleaning materials recommended by the manufacturer of the surface to be cleaned,
 - .3 remove all stains, spots, scuff marks, dirt, dust, remaining labels, adhesives or other surface imperfections,
 - .4 clean and polish all glass and mirrors and remove remaining manufacturer's and safety "X" labels,
 - .5 clean and polish all finished metal surfaces such as enamelled or stainless steel, chrome, aluminum, brass, and bronze,
 - .6 clean and polish all vitreous surfaces such as plumbing fixtures, ceramic tile, porcelain enamel, or other such materials,
 - .7 clean all ceramic tile surfaces in accordance with the manufacturer's instructions,
 - .8 vacuum, clean and dust behind grilles, louvres and screens,
 - .9 steam clean all unprotected carpets immediately prior occupancy by Owner, and
 - .10 clean all equipment and fixtures to a sanitary condition.
- .3 For any areas to be occupied after the owner's initial occupancy, provide full cleaning operations as outlined above prior to turning over to owner,
- .4 The Board's supplies and equipment must not be used for any cleaning operations including, but not limited to: garbage cans, mops, brooms, rags, ladders, chemicals etc.

3.5. FINAL CLEANING PRIOR TO ACCEPTANCE: EXTERIOR

- .1 For areas affected by construction final exterior cleaning operations shall be performed by the General Contractor or competent Subcontractor. Contractor's "broom cleaning" only is not acceptable.
- .2 Final exterior cleaning shall include:
 - .1 broom clean and wash exterior walkways, steps, and surfaces; rake clean other surfaces of grounds,
 - .2 remove dirt and other disfiguration from exterior surfaces,
 - .3 sweep and wash clean paved areas,
 - .4 replace filters of mechanical equipment for all equipment that was in use during construction,
 - .5 clean all roofs, gutters, downspouts, areaways, drywells, and drainage systems,
 - .6 remove debris and surplus materials from crawl areas and other accessible concealed spaces.
 - .7 remove overspray

END OF SECTION

01 78 10 – Closeout Submittals and Requirements

1.0 GENERAL

1.1. RELATED SECTIONS

- .1 Section 01 78 10 – WRDSB Warranty Card, Appendix 00 41 13A

1.2. TAKE-OVER PROCEDURES

- .1 Take over procedures will be in strict accordance with the requirements as set out in this Section.

1.3. SUBSTANTIAL PERFORMANCE

- .1 Prior to requesting a Substantial Performance deficiency inspection submit 2 hard copies, 1 digital copy of the Operating and Maintenance Manuals for Consultants approval.
- .2 Application for Substantial Performance must include.
 - .1 One (1) electronic copy of inspection and acceptance certificates required from regulatory agencies, including but not limited to.
 - .1 Certificates of Approval of the Work by the local Building Department.
 - .2 Electrical Inspection Certificate of Inspection.
 - .3 Fire Alarm Verification Certificate.
- .3 Advise Consultant in writing, when the project has been substantially completed. If Consultant agrees this stage has been reached, the Consultant shall prepare a complete list of deficiencies and submit copies of this list to Contractor and the Board.

1.4. COMMENCEMENT OF LIEN PERIODS

- .1 The date of publication of the Certificate of Substantial Performance of the Work, provided to the contractor by the Consultant, shall be the date for commencement of the lien period.

1.5. TOTAL PERFORMANCE

- .1 Prior to requesting a final inspection submit written certificate that the following have been performed:
 - .1 Work has been completed and inspected for compliance with Contract Documents and is ready for final inspection
 - .2 Defects have been corrected and deficiencies have been completed.

- .3 Equipment and systems have been tested and are fully operational. Submit two copies of the balancing reports
- .4 Certificates required by the contractor have been submitted.
- .5 Operation of systems have been demonstrated to Owner's personnel.
- .6 Submit Record drawings.
- .7 Submit maintenance materials.
- .8 Provide certified site survey
- .2 When items noted above are completed, request final inspection of Work by consultant, and building inspector. If Work is deemed incomplete by Consultant, complete outstanding items and request re-inspection.

1.6. PAYMENT OF SUBSTANTIAL PERFORMANCE HOLDBACK

- .1 Prior to the release of lien holdback provide one copy of the following by the Contractor and each subcontractor:
 - .1 Statutory Declaration or Declaration of Last supply
 - .2 Workplace Safety and Insurance Board "Certificate of Clearance".
- .2 The Contractor shall submit an application for payment of the holdback amount.
- .3 After the receipt of an application for payment which will include a Statutory Declaration and WSIB Clearance from the, the Consultant will issue a certificate for payment of the holdback amount.

1.7. FINAL PAYMENT

- .1 When the Contractor considers final deficiencies and defects have been corrected and it appears requirements of Contract have been completed, make application for final payment.
- .2 When the Consultant finds the Contractor's application for final payment valid, the Consultant will issue a final certificate of payment
- .3 The Board reserves the right to charge the Contractor for school access card(s) that have not been returned.
- .4 The cost to reprogram or replace the card(s) access system is estimated at \$50.00 (fifty dollars) for each card issued, \$30.00 (thirty dollars) for each keybox key, plus \$35.00 (thirty five dollars) administration fee.

1.8. CLOSEOUT SUBMITTALS

- .1 Prepare instructions and data using personnel experienced in maintenance and operation of described products and submit them to the Consultant for review.
- .2 Copy will be returned to the contractor with the Consultant's comments.

- .3 Revise content of documents as required prior to final submission.
- .4 Two (2) weeks prior to Substantial Performance of the Work, submit to the Consultant, the final copies of operating and maintenance manuals.
- .5 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.
- .6 If requested, furnish evidence as to type, source and quality of products provided.
- .7 Defective products will be rejected, regardless of previous inspections. Replace products at own expense.
- .8 Pay costs of transportation.

1.9. OPERATION AND MAINTENANCE MANUAL FORMAT

- .1 Provide two copies of operating and maintenance data, prepared on 215 X 280mm sheets in printed or typewritten form, contained in 3-ring binders with soft vinyl covers for materials and equipment which require special maintenance or operating procedures.
- .2 When multiple binders are used, correlate data into related consistent groupings. Identify contents of each binder at the front of each volume.
- .3 Cover: Identify each binder with type or printed title 'Project Record Documents'; list title of project and identify subject matter of contents.
- .4 Arrange content by the divisions of the specifications under Section numbers and sequence of Table of Contents.
- .5 Provide tabbed fly leaf for each separate product and system, with typed description of product and major component parts of equipment.
- .6 Include the following in each manual:
 - .1 Complete list of subcontractors and suppliers, their addresses and telephone numbers. Provide 24 hour emergency telephone numbers for such subcontractors as Plumbing, Electrical, Sprinklers, Fire System, Heating, etc.
 - .2 Specified warranties for contractor, each subcontractor and supplier.
 - .3 WRDSB Project Asset and Warranty Card, Appendix 00 41 13A
 - .4 Copy of finish hardware list, complete with all amendments and revisions and lock manufacturer's descriptive and service literature.
 - .5 Schedule of paints and coatings. Include sufficient explanation to fully identify each surface with the applicable paint or coating used. Enclose a copy of the colour schedule.
 - .6 Maintenance instructions for finished surfaces.
 - .7 Brochures, cuts of equipment and fixtures.

- .8 Operating and maintenance instructions for equipment.
- .9 Submit copies of letters from manufacturers of equipment and systems indicating their technical representatives have inspected and tested systems and are satisfied with methods of installation, connection and operations. These letters shall state names of persons present at testing, methods used and list of functions performed.
- .10 Submit one complete set of reviewed shop drawings of architectural, structural, mechanical and electrical items, folded to 215 x 280mm size, contained in heavy duty manila envelopes, numbered and labelled. Follow specification format with no more than one Section per envelope, hard copy and PDF.
- .11 Relevant certificates issued by authorities having jurisdiction
- .12 Computer disc or flash drive with all the above documentation in PDF format

1.10. RECORDING ACTUAL SITE CONDITIONS

- .1 Record information on a set of black line opaque drawings, and within the Project Manual.
- .2 Annotate with coloured felt tip marking pens, maintaining separate colours for each major system, for recording changed information.
- .3 Record information concurrently with construction progress. Do not conceal Work of the Project until required information is accurately 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 warranties, test reports and samples required by individual specifications sections.

1.11. RECORD (AS-BUILT) DOCUMENTS AND SAMPLES

- .1 Store AS-BUILT documents and samples in the field office apart from documents used for construction. Provide files, racks, and secure storage.
- .2 Label AS-BUILT documents and file in accordance with section number listings in List of Contents of the Project Manual. Label each document AS-BUILT DOCUMENTS in neat, large, printed letters.
- .3 Maintain AS-BUILT documents in clean, dry and legible condition. Do not use as-built documents for construction purposes.
- .4 Keep as-built documents and samples available for inspection by the Consultant.

1.12. RECORD DRAWINGS

- .1 Prior to Substantial Performance of the Work, update the marked up information from the AS-BUILT documents to a master set of drawing.
- .2 Submit one set of completed AS-BUILT documents to the Consultant for review.
- .3 Documents will be returned to the contractor with the Consultant's comments.
- .4 Revise content of documents as required prior to final submission.
- .5 After the review is completed resubmit to the Consultant for Consultant to produce electronic record drawings for the owner to use.

1.13. 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 Receive and catalogue all items. Submit inventory listing to Consultant. Include approved listings in the Maintenance Manual.
- .4 Obtain receipt for delivered products and submit prior to final payment.

1.14. REPLACEMENT (MAINTENANCE) MATERIALS

- .1 Deliver to site, unload and store where directed, replacement (maintenance) materials as required elsewhere in these Specifications. Obtain a signed receipt from the Owner's Representative for delivered materials and include a copy of receipt in Operation and Maintenance manuals.
- .2 Package materials so they are protected from damage and loss of essential properties.
- .3 Label packaged materials for proper identification of contents.

1.15. SPECIAL TOOLS

- .1 Provide special tools, in quantities specified in the individual specification section.
- .2 Provide items with tags identifying their associated function and equipment.
- .3 Receive and catalogue all items. Submit inventory listing to Consultant. Include approved listings in Maintenance Manual

1.16. FINAL SITE SURVEY

- .1 Submit final site survey certificate in accordance with Section 01 70 00, certifying that elevations and locations of completed Work are in conformance Contract Documents.

1.17. 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 Except for items put into use with Owner's permission, leave the date of beginning of time of warranty until the Date of Substantial Performance is determined. The date of Substantial Performance of the Work shall be the date for commencement of the warranty period.
- .4 Verify that documents are in proper form, contain full information, and are notarized.
- .5 Co-execute submittals when required.
- .6 Retain warranties and bonds until time specified for submittals.

END OF SECTION

01 78 40 – Maintenance Requirements

1.0 GENERAL

1.1. SECTION INCLUDES

- .1 Equipment and systems.
- .2 Materials and finishes.
- .3 Spare parts
- .4 Maintenance manuals.
- .5 Special tools.
- .6 Storage, handling and protection.
- .7 This section describes requirements applicable to all Sections within Divisions 02 to 49.

1.2. RELATED SECTIONS

- .1 Section 01 45 00 - Quality Control.
- .2 Section 01 78 40 – Maintenance Requirements.
- .3 This section describes requirements applicable to all Sections within Divisions 02 to 49.

1.3. 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
- .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, shut-down, 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 by controls manufacturer.
- .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 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 a list of original manufacturer's spare parts, current prices, and recommended quantities to be maintained in storage.
- .14 Include test and balancing reports as specified in Section 01 45 00.
- .15 Additional requirements: As specified in individual specification sections.

2.0 PRODUCTS

2.1. MATERIALS AND FINISH

- .1 Building Products, Applied Materials, and Finishes: include product data, with catalogue number, size, composition, and colour and texture designations.
- .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 Building Envelope: include copies of drawings of building envelope components, illustrating the interface with similar or dissimilar items to provide an effective air, vapour and thermal barrier between indoor and outdoor environments. Include an outline of requirements for regular inspections and for regular maintenance to ensure that on-going performance of the building envelope will meet the initial building envelope criteria.
- .5 Additional Requirements: as specified in individual specifications sections.

2.2. 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 Receive and catalogue all items. Submit inventory listing to Consultant. Include approved listings in the Maintenance Manual.
- .4 Obtain receipt for delivered products and submit prior to final payment.

2.3. 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 in Work.
- .3 Receive and catalogue all items. Submit inventory listing to Consultant. Include approved listings in the Maintenance Manual.
- .4 Obtain receipt for delivered products and submit prior to final payment.

2.4. SPECIAL TOOLS

- .1 Provide special tools, in quantities specified in the individual specification section.
- .2 Provide items with tags identifying their associated function and equipment.
- .3 Receive and catalogue all items. Submit inventory listing to Consultant. Include approved listings in the Maintenance Manual.

3.0 EXECUTION

3.1. DELIVERY TO SITE

- .1 Deliver to place of work and store.
- .2 General Contractor to receive and acknowledge delivery from contractors and subcontractors of all parts and materials assembled for maintenance requirements. Provide a summary inventory list to the Consultant and/or the Board after all materials are gathered and verification of location. Signatures of receipt will not be accepted from anyone except the General Contractor's representative.

3.2. STORAGE, HANDLING AND PROTECTION

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

END OF SECTION

01 79 00 – Demonstration and Training

1.0 GENERAL

1.1. SECTION INCLUDES

- .1 Procedures for demonstration and instruction of Products, equipment and systems to Owner's personnel.
- .2 Seminars and demonstrations.

1.2. RELATED SECTIONS

- .1 This section describes requirements applicable to all Sections within Divisions 02 to 49.

1.3. DESCRIPTION

- .1 At Substantial Performance, at a time acceptable to Owner and Consultant, but not before operations and maintenance manual have been reviewed and accepted by the consultant; contractor shall give a complete demonstration in the presence of consultant; Sub-consultants, Owner and Owner's personnel of operation and maintenance of systems and equipment once they are 100% complete.
- .2 Owner will provide a list of personnel to receive instructions and will coordinate their attendance at agreed-upon times.

1.4. COMPONENT DEMONSTRATION

- .1 Manufacturer to provide authorized representative to demonstrate operation of equipment and systems.
- .2 Instruct Owner's personnel, and provide written report that demonstration and instructions have been completed.

1.5. SUBMITTALS

- .1 Submit schedule of time and date for demonstration of each item of equipment and each system one (1) week prior to designated dates, for Consultant's approval.
- .2 Submit reports within forty eight (48) after completion of demonstration, that demonstration and instructions have been satisfactorily completed.
- .3 Give time and date of each demonstration, with a list of persons present.

1.6. CONDITIONS FOR DEMONSTRATIONS

- .1 Equipment has been inspected and put into operation in accordance with manufacturer's instructions and contract requirements.
- .2 Testing, adjusting, and balancing have been performed in accordance with manufacturer's instructions and contract requirements, and equipment and systems are fully operational.
- .3 Provide information packages as required for use in demonstrations and instructions.

2.0 PRODUCTS

2.1. NOT USED

- .1 Not used.

3.0 EXECUTION

3.1. PREPARATION

- .1 Verify that suitable conditions for demonstration and instructions are available.
- .2 Verify that designated personnel are present.
- .3 Prepare agendas and outlines.
- .4 Establish seminar organization.
- .5 Explain component design and operational philosophy and strategy.
- .6 Develop equipment presentations.
- .7 Present system demonstrations.
- .8 Accept and respond to seminar and demonstration questions with appropriate answers.

3.2. PREPARATION OF AGENDAS AND OUTLINES

- .1 Prepare agendas and outlines including the following:
 - .1 Equipment and systems to be included in seminar presentations.
 - .2 Name of companies and representatives presenting at seminars.
 - .3 Outline of each seminar's content.
 - .4 Time and date allocated to each system and item of equipment.
 - .5 Provide a separate agenda for each system.

3.3. SEMINAR ORGANIZATION

- .1 Coordinate content and presentations for seminars.

- .2 Coordinate individual presentations and ensure representatives scheduled to present at seminars are in attendance.
- .3 Arrange for presentation leaders familiar with the design, operation, maintenance and troubleshooting of the equipment and systems. Where a single person is not familiar with all aspects of the equipment or system, arrange for specialists familiar with each aspect.
- .4 Coordinate proposed dates for seminars with Owner and select mutually agreeable dates.

3.4. EXPLANATION OF DESIGN STRATEGY

- .1 Explain design philosophy of each system. Include following information:
 - .1 An overview of how the system is intended to operate.
 - .2 Description of design parameters, constraints and operational requirements.
 - .3 Description of system operation strategies.
 - .4 Information to help in identifying and troubleshooting system problems.

3.5. DEMONSTRATION AND INSTRUCTIONS

- .1 Demonstrate start-up, operation, control, adjustment, trouble-shooting, servicing, and maintenance of each item of equipment.
- .2 Instruct personnel in all phases of operation and maintenance using operation and maintenance manuals as the basis of instruction.
- .3 Instruct personnel on control and maintenance of sensory equipment and operational equipment associated with maintaining energy efficiency and longevity of service.
- .4 Review contents of manual in detail to explain all aspects of operation and maintenance.
- .5 Prepare and insert additional data in operations and maintenance manuals when the need for additional data becomes apparent during instructions.

END OF SECTION

1 GENERAL

1.1 INSTRUCTIONS

- .1 Comply with the Instructions to Bidders, the General Conditions of the Contract, the Supplementary Conditions and the General Requirements of Division 01.
- .2 Report in writing to the General Contractor any defects of surfaces or work prepared by other Sections which affect the quality or dimensions of the Work. Commencement of work implies acceptance of existing conditions and work by others.

1.2 INTENT

- .1 Provide articles, labour, materials, equipment and transportation to complete the work of this Section.

1.3 SECTION INCLUDES

- .1 Provide masonry units, and related products including but not limited to the following:
 - .1 Concrete masonry units.
 - .2 Mortar and mortar aggregate.
 - .3 Grout fill for interior door frames.
 - .4 Control joints and expansion joints in masonry walls.
 - .5 Concrete grout in the cells of reinforced block.
 - .6 Reinforcing in cells of concrete unit masonry for reinforced masonry construction.
 - .7 Masonry reinforcement, ties, anchors, connectors and accessories.
 - .8 Firestopping insulation as required of all masonry wall fire separations.
 - .9 Grout in all bearing plates in masonry walls.
 - .10 Infill all beam pockets in masonry walls.
- .2 The summarized breakdown of the above mentioned work does not set out all the work of this Section of the Contract but rather outlines the essentials. Provide any masonry work indicated on the drawings or hereinafter specified, all whether enumerated above or not.

1.4 PRODUCTS INSTALLED BUT NOT SUPPLIED UNDER THIS SECTION

- .1 Build, bed and secure into the masonry work the following materials which are supplied by other trades.
 - .1 Masonry inserts, hangers, anchors, sleeves, bolts, etc.
 - .2 Steel lintels supplied by structural steel and/or miscellaneous metals contractor.
 - .3 Louvres in masonry, supplied by general contractor or mechanical trade.

- .4 Conduit, boxes and devices supplied by general contractor, mechanical and electrical contractors.

1.5 RELATED SECTIONS

- .1 Section 07 84 00 – Firestopping.
- .2 Section 07 92 00 – Joint Sealants.
- .3 Section 08 11 00 – Metal Doors and Frames.
- .4 Section 08 51 13 – Aluminum Windows
- .5 Section 09 90 00 – Painting and Coating: Backpainting of hollow metal door frames in masonry walls.

1.6 REFERENCES

- .1 ASTM A82-05: Standard Specification for Steel Wire, Plain, For Concrete Reinforcement.
- .2 ASTM A123/A123M-02: Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
- .3 ASTM A153/A153M-05: Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.
- .4 ASTM A167-99 (2004): Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
- .5 ASTM A580/A580M-06: Standard Specification for Stainless Steel Wire.
- .6 ASTM A641/A641M-03: Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire.
- .7 ASTM A1011/A1011M-06b: Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability.
- .8 ASTM C207-06: Standard Specification for Hydrated Lime for Masonry Purposes.
- .9 ASTM C331-05: Standard Specification for Lightweight Aggregates for Concrete Masonry Units.
- .10 CAN/CSA A82.1-M87 (R2003): Burned Clay Brick (Solid Masonry Units Made from Clay or Shale).
- .11 CSA A165 Series-04: CSA Standards on Concrete Masonry Units.
- .12 CSA A179-04: Mortar and Grout for Unit Masonry.
- .13 CSA A370-04: Connectors for Masonry.
- .14 CSA A371-04: Masonry Construction for Buildings.
- .15 CAN/CSA-A3001-03: Cementitious Materials for Use in Concrete.
- .16 CAN/CSA-A3002-03: Masonry and Mortar Cement.
- .17 CAN/CSA-G30.18-M92 (R2002): Billet-Steel Bars for Concrete Reinforcement.

- .18 CSA S304.1-04: Design of Masonry Structures.
- .19 CAN/CGSB-1.40-M89: Primer, Structural Steel, Oil Alkyd Type.
- .20 CISC CPMA 2-75: Quick Drying Primer for Use on Structural Steel.

1.7 SUBMITTALS

- .1 Submit a list of products to be used in the work of this section, including insulation manufacturer, mortar supplier, concrete unit masonry supplier, and air barrier products for review by the Consultant
- .2 Prior to commencing the work submit manufacturers' complete set of standard details for the air/vapour barrier membrane system showing a continuous plane of air tightness throughout the building envelope.

1.8 SAMPLES

- .1 Submit samples as specified in Section 01 33 00.
- .2 Samples: duplicate full-size samples of each type of specified masonry unit; showing size, colour, design and pattern of faces.

1.9 QUALITY ASSURANCE

- .1 Submit documentation verifying that the air barrier applicator is a recommended installer by the air barrier manufacturer.

1.10 ENVIRONMENTAL REQUIREMENTS

- .1 Thaw and dry ice and snow which have formed on the bedding surface by the application of heat.
- .2 Remove masonry that has, in the opinion of the Consultant, been frozen or damaged due to weather conditions, before that section of wall is continued.
- .3 Do not lay masonry units that are wet or covered with ice.
- .4 Heating Requirements
 - .1 Provide heat enclosures and heat as required, in accordance with CSA A371.
 - .2 Observe the following heating requirements:
 - (1) Air Temperature 4°C – 0°C (40°F – 32°F): Mortar aggregate or mixing water shall be heated to produce mortar temperatures between 5°C (40°F) and 45°C (110°F).
 - (2) Air Temperature 0°C - -4°C (32°F – 25°F): Mortar aggregate and mixing water shall be heated to produce mortar temperatures between 5°C (40°F) and 45°C (110°F). Mortar temperatures shall be maintained above freezing on the boards.
 - (3) Air Temperature -4°C - -7°C (25°F – 20°F): Mortar aggregate and mixing water shall be heated to produce mortar temperatures between 5°C (40°F) and 45°C (110°F). Mortar temperatures shall be maintained above freezing on the boards. Salamanders or other sources of heat shall be used on both sides of walls under construction. Wind breaks shall be employed when wind is excess of 25 km/hour (15 m.p.h.)

- (4) Air Temperature -7°C and below (20°F and below): Mortar aggregate and mixing water shall be heated to produce mortar temperatures between 5°C (40°F) and 45°C (110°F). Enclosure and auxiliary heat shall be provided to maintain air temperatures above 0°C (32°F). Temperature of units when laid shall not be less than -7°C (20°F).

.5 Protection Requirements for Completed Masonry

.1 The following protection requirements apply to complete masonry and masonry not being worked:

- (1) Air Temperature $4^{\circ}\text{C} - 0^{\circ}\text{C}$ ($40^{\circ}\text{F} - 32^{\circ}\text{F}$): Masonry shall be protected from rain or snow for 24 hours by covering with a weather resistive membrane.
- (2) Air Temperature $0^{\circ}\text{C} - -4^{\circ}\text{C}$ ($32^{\circ}\text{F} - 25^{\circ}\text{F}$): Masonry shall be completely covered with weather resistive membrane for 24 hours.
- (3) Air Temperature $-4^{\circ}\text{C} - -7^{\circ}\text{C}$ ($25^{\circ}\text{F} - 20^{\circ}\text{F}$): Masonry shall be completely covered with insulating blanket or equally protected for 24 hours.
- (4) Air Temperature -7°C and below (20°F and below): Masonry temperature shall be maintained above 0°C (32°F) for 24 hours by enclosure and supplementary heat, by electric heating blankets, infra-red heat lamps or other approved method.

.6 Construct and maintain temporary protection as required to permit continuous progress of the Work. Areas so protected shall be of sufficient size to permit progress of all work necessary to maintain an orderly and efficient sequence of construction operations.

.7 Provide temporary lighting at levels adequate to permit work to be performed in accordance with the Contract Documents.

.8 Give adequate notification to the Consultant and Subcontractors prior to the erection and removal of temporary protective enclosures.

1.11 DELIVERY, STORAGE AND HANDLING

- .1 Refer to Section 01 61 00.
- .2 Deliver Products in dry condition, and keep dry until use.
- .3 Deliver cement, lime and other packaged materials in original unbroken and undamaged packages with the marker's name and brand distinctly marked therein, and upon delivery store in a shed until used on the work.
- .4 Deliver masonry units palletized and protected with Shrink-Film.
- .5 Store or pile mortar aggregate on plywood, asphalt or concrete area, and protect from dirt and rubbish.
- .6 Store masonry units off the ground with care to avoid damage. Damaged units will not be acceptable for face work.
- .7 Do not double stack cubes masonry units.

2 PRODUCTS

2.1 MORTAR MATERIALS

- .1 Portland Cement: to CAN/CSA-A3001, Type GU, Grey colour.
- .2 Masonry Cement: to CAN/CSA-A3002, Type N.

- .3 Hydrated Lime: to ASTM C207, Type N – Normal.
- .4 Sand: to CSA A179, standard masonry type; free from loam, clay, vegetable or organic matter, acid, alkali, salt or other soluble or deleterious matter.
- .5 Water: clean, potable.

2.2 MASONRY UNITS

- .1 Concrete Masonry Units – Lightweight (LCMU): to CSA A165.1, using L₂20S slag aggregate to ASTM C331; 190 x 390 mm size, bed depth as indicated on Drawings; solid factory-finished ends with bull nosed corners for use at exposed wall corners, special shapes as required; types as follows:
 - .1 Hollow: Type H/15/C/M
 - .2 Solid (100 percent): SF/15/C/M
 - .3 Solid (75 percent): SS/15/C/M

2.3 JOINT REINFORCEMENT

- .1 Single Wythe Joint Reinforcement: Ladder type, 3.7 mm side rods with 3.7 mm cross ties; to ASTM A82; hot dipped galvanized; e.g. Blok-Lok BL-10, unless noted on Drawings.
- .2 Bed Joint Reinforcement: single 3.7 mm OD wire rod to ASTM A82; hot dipped galvanized.
- .3 Reinforcing Steel: to CSA G30.18, as specified in Section 03 20 00; sizes as indicated on Drawings.
- .4 Strap Anchors: 6.35 mm thick steel plate, hot dipped galvanized; U-shaped and Z-shaped to suit application; e.g., BLT11Z by Blok-Lok.

2.4 ACCESSORIES

- .1 Firestop Insulation: as specified in Section 07 84 00. Mineral wool insulation in thickness to achieve ratings shown on Drawings; by Roxul, Fibrex, Johns Manville or Thermafiber.
- .2 Shop Paint: for steel angle lintels, CPMA 2-75.
- .3 Sealants: as specified in Section 07 92 00.
- .4 Hollow Metal Coating: as specified in Section 09 90 00.

2.5 MORTAR TYPES

- .1 Mortar Types: to CSA A179 as follows:
 - .1 Non-loadbearing Interior Partitions: Type N (compressive strength 750 psi).
 - .2 Loadbearing Walls, Inner-wythe of Exterior Walls, Piers, and Foundation Walls: Type S (compressive strength 1800 psi).
- .2 Mortar Colour
 - .1 Colour of mortar as directed by the Consultant. Mortar pigments shall be Hacros Pigments Canada or Bayferrox Pigments by Bayer Loading shall be as directed by the Consultant (6% maximum).

- .2 Use natural mortar (without colour additives) in all areas to be painted or covered.

2.6 CONCRETE GROUT

- .1 Proportion normal density concrete to meet the following criteria for concrete grout in reinforced masonry units.

.1	Portland Cement	Type GU
.2	Supplementary Cementing Materials	Permitted
.3	Minimum 28 Day Compressive Strength	15 MPa
.4	Minimum Cementitious Content	As required
.5	Normal Size fo Course Aggregate	10 mm
.6	Slump Range at Point of Discharge	180 to 220 mm
.7	Air Content	Less than 3%
.8	Water/Cementing Materials Ratio	0.55

2.7 MORTAR MIXING AND RE-TEMPERING

- .1 Add mortar colour, when specified, in rates determined by manufacturer. Provide 4' x 3' sample panel in an enclosed area for inspection after 24 hours drying, to determine if colour is correct. Wait for Consultant's approval before proceeding with the work.
- .2 Do not use anti-freeze compounds to lower the freezing point of mortar.
- .3 Machine mix masonry cement mortar in a drum type mixer for not less than 3 minutes and not more than 5 minutes with only enough water to produce a workable consistency.
- .4 Stiffened mortar due to the evaporation of water may be re-tempered within 2 hours of original mixing provided the temperature is not over 25°C (77°F) If the temperature is over 25°C (77°F), it may only be re-tempered within one hour of the original mixing.

2.8 SHOP FINISHES

- .1 Hot Dip Galvanizing:
 - .1 Horizontal Joint Reinforcement Wire and V-Ties: to ASTM A153/A153M, Class B2, minimum 458 g/m² (1.50 oz/ft²) zinc coating.

3 EXECUTION

3.1 EXAMINATION

- .1 Prior to the commencement of work, examine all areas that are to receive the work of this Section.
- .2 Report misalignments that may affect the Work to the Consultant for correction.
- .3 Commencement of the work or any parts thereof shall mean acceptance of the prepared substrate.

3.2 RELATIONSHIP TO OTHERS

- .1 Co-operate with other Sections, leaving chases, slots and reglets.
- .2 Build-in frames, sleeves, anchors, bolts, etc. as supplied by others. Ensure items are set square and true.
- .3 Set metal, wood, and wood buck frames for louvres, pressed metal screens and doors, etc. All pressed metal and wood frames for doors and screens in masonry and concrete shall be set and braced by others. Be responsible for and ensure that all frames are set plumb, true and accurately remain in position. Solidly build-in all frames and anchor with the backs of all jambs solidly packed with mortar unless otherwise noted on Drawings.
- .4 Provide openings and lintels in masonry walls where required by other Sections or where indicated; including those required by the Mechanical and Electrical Subcontractors. Locations of such openings must be coordinated by the Subcontractor involved. Cutting and patching for openings that have been missed or incorrectly located shall be provided at no cost to the Owner.
- .5 Accurately locate and neatly finish chases and openings to the required sizes.
- .6 Do not cover pipe, conduit chases or enclosures until advised that the work has been inspected and tested.

3.3 QUALITY OF WORK

- .1 Perform work by skilled workers under the continuous supervision and direction of skilled and experience foremen in each branch of the work. At least one thoroughly experienced and competent man is to be in charge of all mortar mixing.
- .2 Build work plumb, true, level and square, accurately to the dimensions shown and with all angles and reveals at right angles to faces unless distinctly shown otherwise.
- .3 Set out and build masonry work to the respective dimensions called for on drawings. Build and lay work true in line, plumb, square and level; align vertical joints. Keep angles, reveals etc., strictly true and square and plumb.
- .4 All masonry courses to be of uniform height, and both vertical and horizontal joints to be of equal and uniform thickness.
- .5 Do not use chipped, cracked or otherwise damaged units in exposed and load-bearing masonry walls.

3.4 NON-LOADBEARING PARTITIONS

- .1 Extend non-loadbearing partitions in all cases from the top of the structural floor to the bottom surface of the floor or roof construction above unless noted otherwise on Drawings.
- .2 Anchor wall to the underside of the floor structure according to Standard Details.
- .3 In walls exposed to view, support tops of walls with concealed angle clips fastened to deck above wall.

3.5 PROVISION FOR MOVEMENT

- .1 Leave 25 mm space between top of non load-bearing walls and partitions and structural elements.
- .2 Do not use wedges.

- .3 Fill space with mineral wool.

3.6 TEMPORARY WALL BRACING

- .1 Provide temporary engineered wall bracing design.
- .2 Brace masonry walls to resist wind pressure and other temporary lateral loads during the construction period.

3.7 CONCRETE UNIT MASONRY

- .1 Lay units in face shell mortar bedding, plumb, level and true in line, in running bond and properly jointed with other connecting work. Units with open cells exposed in walls will not be permitted.
- .2 Use lightweight concrete unit masonry for exposed interior walls and partitions. Normal weight concrete blocks may be used for all concealed surfaces unless otherwise noted.
- .3 Remove excess mortar and objects. Exercise special care to prevent breaking block corners and the tooled joints shall be made uniform on exposed work.
- .4 Use special concrete unit masonry as indicated on the drawings.
- .5 Use bull-nosed concrete unit masonry for all interior external corners unless noted otherwise on the drawings.
- .6 While laying units, avoid over-plumbing and pounding of the corners and jambs to fit stretcher units after they are set in position. Where an adjustment must be made after the mortar has started to harden, remove mortar and replace with fresh mortar.
- .7 Exercise special care in laying up concrete unit masonry in locations where plastic wall coating finish or painting is indicated. Plumb and tool all joints of concrete unit masonry walls in these locations.
- .8 Tie tee-shaped intersecting walls together with truss-type joint reinforcement. Do not use masonry header bond. Rake and tool joints as indicated on Drawings.
- .9 Sealants to be completed by Section 07 92 00.

3.8 MORTAR JOINTS

- .1 Mortar Joint Thickness: to CSA A371.
- .2 Mortar joints shall be straight, clean and uniform in thickness.
- .3 Tool joints to a dense, slightly concave curved surface well bonded to the unit at the edges.

3.9 Pointing

- .1 Point and fill holes and cracks in exposed mortar joints.
- .2 Cut out defective joints, refill solidly with mortar and tool to form a neat joint to match existing.

3.10 CONCRETE UNIT MASONRY REINFORCING

- .1 Continuously reinforce and tie together with reinforcing in every second block bed joint concrete unit masonry. Refer to Standard Details.

- .2 Provide horizontal reinforcing in first and second bed joints above and below openings. The first bed joint immediately above and below openings shall have continuous reinforcing. In second bed joint, the reinforcing shall extend 600 mm (24") beyond each side of the opening. Refer to Standard Details.
- .3 Place continuous reinforcing in the second bed joint below the top of the wall. Refer to Standard Details.
- .4 Lap reinforcement a minimum of 150 mm (6") at splices, and cut and bend at corners. Overall width of reinforcement shall be according to the manufacturer's recommendations for the various wall thicknesses.
- .5 Do not use crimped metal wall ties.
- .6 Where vertical bars are called for, fill cores of block full with concrete grout.

3.11 CONTROL JOINTS

- .1 Provide control joints at locations in accordance with Portland Cement Association Concrete Masonry Handbook and determined by the Consultant unless indicated on the drawings to maintain construction integrity.
- .2 Break vertical mortar bond with extruded neoprene gasket
- .3 Prime control joint surfaces to prevent drying out of sealant.
- .4 Provide 2:1 width-to-depth joint for sealant Section 07 92 00.
- .5 To form control joints in interior block walls, fill completely with mortar the core of a full height vertical joint after inserting a strip of building paper to keep the mortar from bonding to one side. Refer to Standard Details.

3.12 BEARING

- .1 Fill concrete masonry units acting as bearing structural members solid with 15 MPa (2175 psi) concrete for a width and depth equal to 3 times the length of bearing.
- .2 Use solid concrete masonry units where indicated on Drawings.

3.13 BEAMS AND LINTELS

- .1 Provide steel angle lintels in accordance with the Drawings unless indicated otherwise.
- .2 Clean steel lintels by scraping, wire brushing or other effective means to remove loose scale, rust, grease, oil or other foreign matter.
- .3 Apply one coat of paint prior to installation, unless lintels are galvanized.
- .4 Angle lintels shall have a bearing of not less than 150 mm (6") at each end.

3.14 SHEET METAL WORK

- .1 Cut and form reglets in masonry walls as required for the securing of flashings.

3.15 ANCHORAGE TO CONCRETE

- .1 Provide continuous dovetail anchor slots to be supplied and set by the Concrete Contractor in the concrete for the anchorage of all masonry facing, furring, abutting walls and partitions to the concrete walls, concrete spandrels, concrete columns, etc. Slot shall be for full height as required equal to D & R galvanized steel dovetail type with fibreglass filler and provided complete with adjustable galvanized steel anchors to be placed at 400 mm (16") vertically. Slots are to be at 400 mm (16").

3.16 FIELD QUALITY CONTROL

- .1 Drying Out
 - .1 When masonry work is completed, provide ventilation and heat as required to reduce moisture level in masonry to maximum 15%, sustained for a 48 hour period. Timing for achieving this to be determined by Contractor, but no later than start of finishing work.
 - .2 Testing may be performed as specified in Section 01 45 00. In the absence of such testing, random sampling with moisture meter will be conducted by the Consultant.

3.17 PROTECTION

- .1 Cover walls exposed to the elements with waterproof membranes at the end of each Working Day and keep covered until work is re-commenced.
- .2 Protect visually-exposed Products from marks and damage.

END OF SECTION

1 GENERAL

1.1 INSTRUCTIONS

- .1 Comply with the Instructions to Bidders, the General Conditions of the Contract, the Supplementary Conditions and the General Requirements of Division 1.
- .2 Report in writing to the General Contractor any defects of surfaces or work prepared by other Sections which affect the quality or dimensions of the Work. Commencement of work implies acceptance of existing conditions and work by others.

1.2 SECTION INCLUDES

- .1 Firestopping, smoke seals and accessories.

1.3 RELATED SECTIONS

- .1 Section 04 20 00 - Unit Masonry: penetrations in rated masonry assemblies.
- .2 Section 07 92 00 - Joint Sealants: non-rated joint sealants.
- .3 Section 09 21 16 - Gypsum Board Assemblies: penetrations in rated gypsum board assemblies.
- .4 Section 23 33 16 – Fire Dampers
- .5 Section 26 05 00 – Common Work Results for Electrical: service penetrations in rated assemblies.
- .6 Section 27 05 00 – Common Work Results for Communications: service penetrations in rated assemblies.
- .7 Section 28 05 00 – Common Work Results for Electronic Safety and Security: service penetrations in rated assemblies.

1.4 REFERENCES

- .1 ASTM E84-05: Standard Test Method for Surface Burning Characteristics of Building Materials.
- .2 ASTM E119-05a: Standard Test Methods for Fire Tests of Building Construction and Materials.
- .3 ASTM E814-02: Standard Test Method for Fire Tests of Through-Penetration Fire Stops.
- .4 ASTM E2174-04: Standard Practice for On-Site Inspection of Installed Fire Stops.
- .5 CAN/CGSB-19.13-M87: Sealing Compound, One Component, Elastomeric, Chemical Curing.
- .6 CAN/CGSB-19.24-M90: Multicomponent, Chemical Curing Sealing Compound.
- .7 CAN/ULC-S102-03: Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.
- .8 ULC-S115-95 (R2001): Standard Method of Fire Tests of Firestop Systems.
- .9 CAN/ULC-S702-97: Standard for Thermal Insulation, Mineral Fibre, for Buildings.

- .10 Underwriters' Laboratories of Canada: List of Equipment & Materials.

1.5 SYSTEM DESCRIPTION

- .1 Firestopping and smoke seals is a complete and integrated system. Bid as a separate work scope and include all firestopping and smoke seal requirements as specified herein and shown on the drawings.
- .2 Provide firestopping and smoke seals within mechanical (i.e., inside ducts, dampers) and electrical assemblies (i.e., inside bus ducts) as part of the work of Divisions 21, 22, 23, 25, 26, 27 and 28 respectively. Firestopping and smoke seals around the outside of such mechanical and electrical assemblies where they penetrate rated fire separations shall be part of the work of this Section.
- .3 Firestopping Materials: tested to ULC-S115 to achieve the required fire rating in accordance with ULC or Warnock Hersey Design Numbers.
- .4 Work of this Section comprises firestopping and smoke seal materials and systems to provide closures to fire and smoke at openings around penetrations, at unpenetrated openings, at projecting or recessed items, and at openings and joints within fire separations and assemblies having a fire-resistance rating, including openings and spaces at perimeter edge conditions.
- .5 Provide seals to form draft tight barriers to retard the passage of flame and smoke.
- .6 The installed seal shall provide and maintain a fire resistance rating equivalent to the rating of the adjacent floor, wall or other fire separation assembly to the requirements of and acceptable to the authorities having jurisdiction, and the Consultant.
- .7 ULC systems used must provide a flame, temperature in cable and cable tray penetrating and hose stream rating in accordance with those outlined in the applicable codes and provide an effective barrier against the passage of flame, smoke and gases.
- .8 All firestopping seals except for wall joints in visible areas must be of an easily identifiable colour, to be clearly distinguished from other building materials.
- .9 For firestopping and smoke seals at openings around penetrations for pipes, ductwork and other mechanical items requiring sound and vibration control, use an elastomeric seal. Do not use a cementitious or rigid seal at such locations, unless penetrant is isolated by firestop pipe insulation or mechanical movement isolators.
- .10 Firestopping and smoke seals at joints and spaces designed and required to allow movement: A flexible, elastomeric seal suitable to withstand the required movement and capable of returning to original configuration without damage to the seal and without adhesive or cohesive failure; do not use a cementitious or rigid seal at building movement joints, sway joints, deflection spaces, control joints, expansion joints, and other such locations, unless used to minimize non-moving part of seal (i.e., firestop mortar deck flute fill).

1.6 SUBMITTALS

- .1 Submit Shop Drawings and Product data as specified in Section 01 33 00.
- .2 Product Data: sealant manufacturer's installation instructions and standard drawings, indicating ULC or WHI test designations.
- .3 Shop Drawings: Indicate sizes of openings, nature of penetrations, and tested method of firestop and smoke seal protection being proposed.

- .4 Shop Drawings are to be sealed, signed and dated by manufacturer's design engineer.
- .5 Submit shop drawings to Consultant and to the authority having jurisdiction for their review and approval.

1.7 CERTIFICATES

- .1 Submit certification as specified in Section 01 33 00.
- .2 Certificate: sealant manufacturer's letter of certification verifying that Products meet or exceed specified requirements.

1.8 TEST REPORTS

- .1 Submit test reports as specified in Section 01 33 00.
- .2 Test Reports: certified laboratory reports, indicating that Products proposed for use conform to ASTM E814 and ULC-S115, and are so classified by the Underwriter's Laboratories of Canada or Warnock-Hersey International.

1.9 QUALITY ASSURANCE

- .1 Manufacturer's Design Engineer: a registered professional engineer licensed to practice in the Place of the Work and having a minimum of 10 years documented experience designing firestop and smoke seal systems.
- .2 Applicator: approved and acceptable to sealant material manufacturer.
- .3 Firestopping compounds shall not contain volatile solvents or require special application to protect plastic pipe from firestopping compound.

1.10 PRE-INSTALLATION MEETING

- .1 Prior to commencement of firestopping, arrange and conduct a pre-installation meeting as specified in Section 01 31 00.
- .2 Pre-installation Meeting: discuss proposed methods and materials to be used in all instances.
- .3 Representatives of the Owner, Consultant, Contractor, installer, manufacturer and the authority having jurisdiction are to be in attendance.
- .4 Do not conduct meeting unless all identified parties are present.

1.11 MOCK-UPS

- .1 Construct job site mock-up as specified in Section 01 40 00.
- .2 Apply one sample seal on representative substrates on each site for each fire rating required at each type of wall, floor or roof construction.
- .3 Comply with project requirements as to thickness and density of application to achieve fire rating.
- .4 Proceed with installation only after Consultant has reviewed and accepted mock-up.
- .5 Acceptable mock-up may remain as part of the completed Work as standard.

1.12 DELIVERY, STORAGE AND HANDLING

- .1 Refer to Section 01 61 00.
- .2 Deliver Products to the Place of the Work in their original unopened packages.
- .3 Store Products in an enclosed shelter, preventing damage to containers.

1.13 PROJECT CONDITIONS

- .1 Do not apply sealants when temperature of substrate material and surrounding air is below 5 degrees C (42 degrees F).
- .2 Maintain sealant at a minimum 18 degrees C (68 degrees F) for best workability.

2 PRODUCTS

2.1 MANUFACTURERS

- .1 Manufacturers of firestopping and smoke seals having Product considered acceptable for use:
 - .1 3M Canada
 - .2 Tremco
 - .3 A/D Fire Protection Systems Inc.
 - .4 Dow-Corning Canada Inc.
 - .5 Hilti Canada.
- .2 Substitution Procedures: refer to Section 01 25 00.

2.2 MATERIALS

- .1 Firestop Sealant, Type A: non-sag; asbestos-free; single component sealant composed of high temperature ceramic fibers and organic and silica binders; ULC labelled; to ULC-S115 and CAN/ULC-S102-M.
- .2 Firestop Sealant, Type B: three component; epoxidized polyurethane terpolymer; accommodating joint movement of +40/-25%; ULC labelled; to CAN/CGSB-19.24-M and ULC-S115.
- .3 Firestop Sealant, Type C: three component; self-levelling; chemically curing polyurethane sealant; ULC labelled; to ULC-S115.
- .4 Firestop Sealant, Type D: single component; low modulus; silicone rubber; moisture curing; ULC labelled; to CAN/CGSB-19.13-M and ULC-S115.
- .5 Firestop Sealant, Type E: single component; modified polyurethane; moisture curing; ULC labelled; to CAN/CGSB-19.13-M and ULC-S115.
- .6 Primer: as recommended by sealant manufacturer for specific material, substrate and end use.
- .7 Firestop Insulation: to CAN/ULC-S702, Type 2; mineral fibre manufactured from rock or slag, suitable for manual application:

- .1 Density: 72 kg/m³ when tested to ASTM C303.
- .2 Combustibility: Noncombustible to CAN/ULC-S114.
- .3 Melt Temperature: greater than 1,175 degrees C (2,385 degrees F).
- .4 Surface Burning Characteristics: to CAN/ULC-S102, maximum flame spread of 0, smoke developed of 0.
- .5 Moisture Sorption: 0.04 percent when tested to ASTM C1104.
- .6 Smoulder Resistance: 0.01 percent when tested to CAN/ULC-S129.

2.3 COMPONENTS

- .1 Provide firestopping and smoke sealing systems to ULC-S115 and as described below:
 - .1 Asbestos free materials and systems fully capable of maintaining an effective barrier against gases, flame and smoke in compliance with ULC-S115, not exceeding opening sizes stated.
 - .2 Service Penetration Assemblies: certified by ULC-S115 and used by ULC Guide 40 U19. Service components listed as certified in this guide are noted under Label Service of ULC.
 - .3 Fire resistance rating of fire stopping material assembly must meet or exceed the fire resistance rating of the floor or wall section being penetrated.
 - .4 Firestopping and smoke seals at openings around penetrations for pipes, ductwork and other mechanical items requiring sound and vibration control: elastomeric seal; do not use a cementitious or rigid seal at such locations.
 - .5 Damming and back up materials, supports and anchoring devices shall be to manufacturer's recommendations, and in strict accordance with tested assembly being installed as acceptable to authorities having jurisdiction.
 - .6 Sealants: non-sagging type for vertical joints.

3 EXECUTION

3.1 EXAMINATION

- .1 Confirm compatibility of surfaces to receive sealant materials.
- .2 Verify that surfaces of openings are sound, clean, dry and ready to receive application of sealant.
- .3 Verify that penetration elements are securely fixed and properly located.
- .4 Commencement of installation means acceptance of existing conditions.

3.2 PREPARATION

- .1 Protect adjacent surfaces and equipment from damage.
- .2 Clean contact surfaces of dirt, dust, grease, oil, loose material, or other matter that may affect bond of sealant.

- .3 Remove incompatible materials that affect bond by scraping, brushing, water or solvent cleaning, or sandblasting.

3.3 PENETRATION SIZING

- .1 The following shall regulate sizing of service penetrations to be fire stopped, in an effort to standardize and minimize penetration sizes:
 - .1 Sleeve single, circular penetrations except in fire rated gypsum wallboard, under work of mechanical and electrical Subcontractors.
 - .2 Multiple penetrations of circular elements are defined as more than one circular penetration having a maximum space of 100 mm (4") between closest faces of such penetrating elements. Forming of such multiple penetrations is responsibility of respective sections whose service penetrates the rated assembly, and such formed opening shall be a square or rectangular frame around a group of penetrations in which maximum clearance between outer penetration element and face of opening shall be 25 mm (1"). This also applies to single circular penetrations in fire rated gypsum wallboard. Fire rated pipe insulation, where applied is to be considered penetrant requiring above mentioned amounts.
 - .3 Square penetrations shall be created in same manner as the above mentioned multiple circular penetrations, but the edge clearance may be increased to maximum 50 mm (2").
 - .4 Exception: At fire dampers, clearances are governed by testing authorities' requirements.

3.4 APPLICATION

- .1 Install mineral fibre insulation in compacted thicknesses required by ULC design. Compress insulation approximately 33 percent.
- .2 Apply sealant in strict accordance with manufacturer's instructions and ULC certification.
- .3 Coordinate and cooperate with adjacent, contiguous and related materials trades, such as concrete, drywall, plumbing, conduit, electrical wiring, communication systems, etc., to ensure a proper and timely installation.
- .4 Seal holes or voids made by penetrating items to ensure an effective fire and smoke barrier.
- .5 Seal all intersections and all penetrations of floors, ceilings, walls and columns.
- .6 Seal around all cutouts for lights, cabinets, pipes and plumbing, ducts, electrical boxes, etc.
- .7 Wrap non-insulated heated pipes that may be subject to movement with a non-combustible smooth material to permit the pipe to move without damaging the firestopping and smoke seal.
- .8 Maintain the integrity of any insulation and vapour retarders on insulated pipes and ducts at the fire separation.
- .9 Where floor openings exceed 100 mm (4") in width and may be subjected to traffic or loading, install cover plate systems capable of supporting same loading as floor.

- .10 Apply tags on each mechanical and electrical seal, either on penetrant(s), on seal or next to seal, at Subcontractor's option. Wall seals require tags on each side. Tag floor seals on the top only. Tags need not exceed 3 sq.in. in size but shall state seal number, installation date, installer's initial and the following text, "Firestop system not to be severed unless prepared to repair immediately".

3.5 FIELD QUALITY CONTROL

- .1 Perform field testing and inspection as specified in Section 01 45 00.
- .2 Conduct inspections to ASTM E2174.
- .3 Examine finished penetrations to ensure proper installation before concealing or enclosing any areas of work.
- .4 Keep areas of work accessible until inspection has been completed.
- .5 Manufacturer's Field Service: inspect to verify and confirm that systems installation is in strict accordance with manufacturer's and ULC requirements.
- .6 Correct unacceptable work and provide further inspection to verify compliance with requirements.

3.6 CLEANING

- .1 Immediately remove all spots, smears, stains, residues, adhesives, etc., from the work of this Section and from upon adjacent areas or surfaces which resulted from the work of this Section.
- .2 Upon completion of firestopping, remove debris, trash, containers, residue, remnants and scraps from the Place of the Work.
- .3 Cleaning to be free of volatile solvents. Leave the Work in a clean and satisfactory condition.

3.7 PROTECTION

- .1 After installation, and until Owner occupancy, protect the rated firestop systems from damage.
- .2 Remove damaged materials and replace with new, undamaged Product, at no additional cost to Owner.

3.8 SCHEDULES

LOCATION	FIRE RATING	ULC ASSEMBLY
1. Main floor lobby walls	1 hours	SP325, SP326, SP383, SP196
2. Stair and service core perimeter	1 hours	
3. Floor to floor assembly	1 hours	

END OF SECTION

1 GENERAL

1.1 INSTRUCTIONS

- .1 Comply with the Instructions to Bidders, the General Conditions of the Contract, the Supplementary Conditions and the General Requirements of Division 1.
- .2 Report in writing to the General Contractor any defects of surfaces or work prepared by other Sections which affect the quality or dimensions of the Work. Commencement of work implies acceptance of existing conditions and work by others.

1.2 SECTION INCLUDES

- .1 Joint Sealants.

1.3 RELATED SECTIONS

- .1 Section 04 20 00 - Unit Masonry: sealants used in conjunction with masonry.
- .2 Section 06 20 00 – Finish Carpentry
- .3 Section 06 40 00 - Architectural Woodwork: sealants used in conjunction with counters and casework.
- .4 Section 07 84 00 - Firestopping: firestop sealants.
- .5 Section 08 11 00 – Metal Doors and Frames: sealants used in conjunction with hollow metal frames.
- .6 Section 08 51 13 – Aluminum Windows: sealants used in conjunction with window frames.
- .7 Section 08 80 00 – Glazing: sealants used in conjunction with glazing methods.
- .8 Section 09 21 16 - Gypsum Board Assemblies
- .9 Section 09 51 00 - Acoustical Ceilings: sealants used in conjunction with suspended metal ceiling systems.

1.4 REFERENCES

- .1 ASTM C920-05: Standard Specification for Elastomeric Joint Sealants.
- .2 CAN/CGSB-19.13-M87: Sealing Compound, One Component, Elastomeric, Chemical Curing.
- .3 CAN/CGSB-19.17-M90: One Component Acrylic Emulsion Base Sealing Compound.
- .4 CAN/CGSB-19.22-M89: Mildew Resistant Sealing Compound for Tubs and Tiles.
- .5 CAN/CGSB-19.24-M90: Multicomponent, Chemical Curing Sealing Compound.

1.5 SYSTEM DESCRIPTION

- .1 Remove sealant from existing joints indicated and clean joints.

- .2 Seal all areas indicated on Drawings, in list following and where required to make building watertight and weathertight:
 - .1 Exterior and interior of masonry control joints. If these are not indicated assume 8000 mm (26'-0") on centres for full height of wall.
 - .2 Abutting masonry walls.
 - .3 Both sides of hollow metal frames.
 - .4 Interior and exterior of aluminum window and door frames.
 - .5 All pipes, grilles and equipment passing through walls.
 - .6 Joint where two different materials abut.
 - .7 Plumbing fixtures.

1.6 SUBMITTALS

- .1 Submit Product data and samples as specified in Section 01 33 00.
- .2 Submit manufacturers' test data as specified in Section 01 45 00.

1.7 QUALITY ASSURANCE

- .1 Applicator: a recognized specialized applicator having skilled mechanics, thoroughly trained and competent in all phases of caulking work, and a member in good standing of the Caulking Contractor's Association of Ontario.

1.8 PRE-CONSTRUCTION MEETING

- .1 Conduct a pre-construction meeting as specified in Section 01 31 00.
- .2 Representatives of the Consultant, Contractor, applicator, and sealant manufacturer(s) are to be in attendance.
- .3 Confirm prior to application that correct Products and methods are being used in specific instances.

1.9 DELIVERY, STORAGE AND HANDLING

- .1 Refer to Section 01 61 00.
- .2 Deliver and store Products in undamaged and original containers, with labels intact and showing the manufacturer's name, brand, colour, etc.
- .3 Ensure at time of use that Products are still within recommended shelf life.
- .4 Maintain storage area at a temperature in accordance with manufacturer's recommendations.

1.10 ENVIRONMENTAL CONDITIONS

- .1 Do not install solvent curing sealants in enclosed building spaces.
- .2 Maintain temperature and humidity recommended by the sealant manufacturer during and after installation.

1.11 WARRANTY

- .1 Submit extended warranties in accordance with the General Conditions of the Contract.
- .2 Extended System Warranty: for a period of 2 years, including coverage against delamination, cracking, running, loss of adhesion and cohesion, blistering, peeling, colour change and staining.
- .3 Extended Manufacturer Warranty: for a period of 10 years, including coverage against failure of the sealant material to achieve air tight and watertight seal, exhibit loss of adhesion or cohesion, maintain stability, or not cure.

2 PRODUCTS

2.1 MANUFACTURERS

- .1 Manufacturers of joint sealants having Products considered acceptable for use:
 - .1 Canadian General Electric.
 - .2 CSL Silicones Inc.
 - .3 Dow Corning.
 - .4 PRC Chemicals.
 - .5 Sika Canada Inc.
 - .6 Tremco Canada.
- .2 Substitution Procedures: refer to Section 01 33 00.

2.2 MATERIALS

- .1 Sealant A: 2-part, polysulphide; CAN/CGSB-19.24-M, Type 2, Class B
- .2 Sealant B: (non-sag, for non-glazing) 2-part, polysulphide; CAN/CGSB-19.24-M, Type 2, Class A
- .3 Sealant C: (non-sag, for glazing) 1-part, acrylic emulsion latex CAN/CGSB-19.17-M.
- .4 Sealant D: 1-part, chemical curing, silicone CAN/CGSB-19.22-M
- .5 Sealant E: 1-part, moisture curing, polyurethane CAN/CGSB-19.13-M
- .6 Joints In Bathrooms, Laundries, Etc.
 - .1 Sealant: Mildew Resistant
 - (1) Silicone Sanitary Sealant (1702 Series) by Canadian General Electric.
 - (2) 786 by Dow Corning.
 - (3) Tremoil 600 by Tremco
- .7 Thinners and Primers: type compatible with appropriate sealant and substrate as recommended by manufacturer.
- .8 Cleaning material: As recommended by manufacturer.

- .9 Joint backing material: preformed, compressible, resilient, non-staining foam compatible with primers, sealants, outsize 30%, polyethylene, extruded closed cell foam, Shore "A" hardness 20, tensile strength 20-30 psi, such as PRC Backer Rod or equal. Outsize 50%, polyethylene, extruded open cell foam, Shore "A" hardness 10, tensile strength 140-150 psi, such as PRC open cell.
- .10 Bond breaker: where joint configuration does not allow for proper depth/width ratio with the use of backer rod (see Section 3.2.5.) - a pressure sensitive plastic tape such as 3M #226 or #481 which will not bond to the sealant shall be placed at the back of the joint.
- .11 Sealant Colours: as selected by Consultant from manufacturers' standard colour range.

3 EXECUTION

3.1 EXAMINATION

- .1 Report to the Consultant, in writing, defects of surfaces or work prepared by other trades and unsatisfactory site conditions.
- .2 Commencement of work implies total acceptance of surface and site conditions.
- .3 Thoroughly examine surfaces scheduled to receive sealants to ensure that they are dry, clean, level; free from cracks, ridges, dusting, scaling, carbonation, mortar droppings, parging, curing compounds, rust, grease, oil, paint or other foreign material likely to impair adhesion, performance or appearance.
- .4 Test substrate for adhesion and staining if any doubt exists.
- .5 Verify at the site that joints and surfaces have been provided as specified under the work of other sections; and that joint conditions will not adversely affect execution, performance or quality of completed work; and that they can put into acceptable condition by means of preparation specified in this section.
- .6 Ascertain that sealers and coatings applied to sealant substrates are compatible with sealant used and that full bond between the sealant and substrate is attained.
- .7 Request samples of the sealed or coated substrate from their fabricators for testing of compatibility and bond if necessary.
- .8 Verify that specified environmental conditions are ensured before commencing work.
- .9 Ensure that releasing agents, coating or other treatments have either not been applied to joint surfaces or that they are entirely removed.
- .10 Defective work resulting from application to unsatisfactory joint conditions will be considered the responsibility of those performing the work of this section.
- .11 Protect adjacent Products from damage, and make good any resulting damage in accordance with the Contract Documents.

3.2 PREPARATION

- .1 Remove dust, paint, loose mortar and other foreign matter and dry joint surfaces.
- .2 Remove dust, silt, scale and coating from ferrous metals by wire brush, grinding or sandblasting.
- .3 Remove oil, grease and other coating from non-ferrous metals.

- .4 Prepare concrete, masonry, glazed and vitreous surfaces as recommended by sealant manufacturer.
- .5 Examine joint sizes and modify to achieve proper width-to-depth ratio.
- .6 For joints wider than 50 mm (2"), contact sealant manufacturer's representative for recommendations.
- .7 Install backer rod or apply bond breaker tape to achieve correct joint configuration.
- .8 Where necessary to prevent staining, mask adjacent surfaces with tape prior to priming and application of sealant.
- .9 Prime sides of joint in accordance with manufacturer's directions, immediately prior to sealing.
- .10 Prior to application, test each sealant with proposed substrate for indications of staining or poor adhesion.
- .11 At locations where another surface will cover the sealed joint (e.g. cove base) ensure the sealant is finished flush with adjacent surfaces.

3.3 QUALITY OF WORK

- .1 Quality of work shall be in accordance with good practice and in strict compliance with the recommendations of the manufacturer of materials being used.
- .2 Check work area for adequate light and heat.
- .3 Carefully mask adjacent surfaces, materials and items not scheduled to receive sealant, taking care to see that masking remains intact until application is complete. Remove masking immediately upon completion of caulking.
- .4 Do not apply sealant to substrate until thoroughly cured and dried.

3.4 APPLICATION

- .1 Prime sides of joints before placing joint backing. Use bond breaker where joint backing not required.
- .2 Mix and apply sealant in strict accordance with manufacturer's directions and under supervision of manufacturer's field representative.
- .3 Sealants shall be of gun grade or knife grade consistency to suit joint condition.
- .4 Apply sealants in accordance with manufacturer's directions, using a gun with proper size nozzle. Use sufficient pressure to fill voids and joints solid, as indicated on Drawings.
- .5 Form surface of the sealant with full bead, smooth, free from ridges, wrinkles, sags, and embedded impurities. Neatly tool surface to a slight concave joint.
- .6 Clean adjacent surfaces immediately and leave work neat and clean. Remove excess and droppings using recommended cleaners as work progresses. Remove masking tape immediately after tooling of joints.
- .7 In masonry cavity construction with an air seal, vent sealed joints from cavity to beyond external face of wall.
- .8 Superficial pointing with the skin bead is not acceptable.

- .9 Provide test results of pull test performed by the manufacturer representative before completion of sealant work.
- .10 Promptly, as the work proceeds and upon completion, clean-up and remove from the Place of the Work masking tapes, rubbish and surplus material.

3.5 SCHEDULE

- .1 Sealant AE:
 - .1 Masonry to metal
 - .2 Masonry to masonry
 - .3 Masonry to stucco
 - .4 Masonry to wood
 - .5 Metal to metal
 - .6 Wood to stucco
- .2 Sealant B:
 - .1 Glass to all materials
- .3 Sealant C E:
 - .1 Gypsum board to gypsum board
 - .2 Gypsum board to wood
- .4 Sealant D:
 - .1 Plumbing fixtures to wall and floor surfaces

END OF SECTION

1 GENERAL

1.1 INSTRUCTIONS

- .1 Comply with the Instructions to Bidders, the General Conditions of the Contract, the Supplementary Conditions and the General Requirements of Division 1.
- .2 Report in writing to the General Contractor any defects of surfaces or work prepared by other Sections which affect the quality or dimensions of the Work. Commencement of work implies acceptance of existing conditions and work by others.

1.2 SECTION INCLUDES

- .1 Supply only of:
 - .1 Steel Frame Products including frames, transom frames (glazed or panelled), side light and window assemblies, fire labelled and non-labelled as indicated on drawings and door schedule.
 - .2 Steel doors, swing type, flush, glazed or louvred, fire labelled, with or without temperature rise ratings, and non-labelled as indicated on drawings and door schedule.
- .2 Provide:
 - .1 Steel frame products including frames, transom frames (glazed or panelled), sidelight and window assemblies, fire labelled and non-labelled as indicated on drawings and door schedule

1.3 RELATED WORK NOT INCLUDED IN THIS SECTION

- .1 Section 04 20 00 – Unit Masonry: Building in and grouting frames into concrete unit masonry.
- .2 Section 06 20 00 – Finish Carpentry: Installation of frames, doors, surface mounted hardware and finishing hardware.
- .3 Section 07 92 00 – Joint Sealants: sealing joints between frames and other building components.
- .4 Section 08 70 00 – Hardware: Supply of finishing hardware.
- .5 Section 08 80 00 – Glazing.
- .6 Section 09 21 16 - Gypsum Board Assemblies: Gypsum board partitions.
- .7 Section 09 90 00 – Painting and Coating.

1.4 REFERENCES

- .1 ASTM A568/A568M-06a: Standard Specification for Steel, Sheet, Carbon, Structural, and High-Strength, Low-Alloy, Hot-Rolled and Cold-Rolled, General Requirements for.
- .2 ASTM A653/A653M-03: Standard Specification for Steel Sheet, Zinc Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- .3 CAN/CGSB-1.181-99: Ready-Mixed Organic Zinc-Rich Coating.
- .4 CGSB 41-GP-19Ma: Rigid Vinyl Extrusions for Windows and Doors.

- .5 CAN/CSA-G40.21-04: Structural Quality Steel.
- .6 NFPA 80-1999: Fire Doors and Windows.
- .7 CAN4-S104-M80: Fire Tests of Door Assemblies.

1.5 REGULATORY REQUIREMENTS

- .1 Install fire labelled steel doors and frames products to NFPA 80.

1.6 SHOP DRAWINGS

- .1 Submit shop drawings as specified in Section 01 33 00.
- .2 Shop Drawings: indicating type of door, material, steel core thickness, mortises, reinforcements and glazed openings and details. Include schedule identifying each unit, with door marks and numbers relating to numbering on drawings and in door schedule.

1.7 QUALITY ASSURANCE

- .1 Supply material manufactured to standards of Canadian Steel Door and Frame Manufacturers Association (CSDFMA) "Canadian Metric Guide for Steel Doors and Frames" (Modular Construction).
- .2 Fire rated doors frames glazing stops and fire door hardware shall bear U.L.C. labels. Refer to architectural drawings for location of fire rated assemblies. All hollow metal work in fire separations and fire walls shall be in accordance with NFPA 80 and CAN4-S104.

1.8 REJECTIONS

- .1 Defective materials whenever found at any time prior to final acceptance of the work shall be rejected regardless of previous site review. Site review will not relieve Contractor from responsibility but is a precaution against oversight and error.
- .2 Remove and replace defective materials and work of other trades affected by this replacement at no additional cost to the Owner.

1.9 WARRANTY

- .1 Materials and quality of work shall be warranted by Manufacturer in accordance with the CSDFMA members standard warranty for steel doors and frames.

2 PRODUCTS

2.1 MATERIALS

- .1 Doors
 - .1 Acceptable Materials: All and only steel doors and frames product manufactured by CSDFMA members are eligible for use on this project.
 - .2 Minimum requirements for fire doors are that individual manufacturer's proprietary designs must be successfully tested to CAN4-S104-M.
 - .3 Fire Rated Doors assembly and fire rated glazing stops, material and construction approved by ULC.

- .4 Interior Door Faces: 1.2 mm (18 gauge) base thickness as Commercial grade steel to ASTM A568, Class 1, hot-dip galvanized to ASTM A653, ZF75 (A25) coating designation, known commercially as "Colourbond", "Satincoat" or "Galvanneal". Minimum base steel thickness shall be as per Table 1 / CSDFMA.
 - .5 Use Z275 (G90) fully galvanized door faces on door numbers indicated on door schedule.
 - .6 Cores for non-insulated interior doors: honeycomb structural core consisting of kraft paper having 20 mm (3/4") cell size to thickness indicated to ULC Guide 40U8.8.
- .2 Frames
- .1 Frames: 1.6 mm (16 gauge) base thickness steel, zinc wipe coated steel for interior door frames and fully galvanized to Z275 (G90) for exterior door frames.
 - .2 Frames shall be blanked, reinforced, drilled and tapped for mortised, templated hardware minimum steel thickness.
 - .3 Mortised cutouts shall be protected with steel guard boxes minimum steel thickness 1.2 mm (18 Gauge).
 - .4 Frames shall be reinforced, where required, for surface mounted hardware. Drilling and Hardware reinforcing minimum steel thickness 3.5 mm (10 Gauge), tapping is by others on site, at time of installation.
 - .5 Provide for appropriate anchorage to floor and wall construction. Each wall anchor shall be located immediately above or below each hinge reinforcement on the hinge jamb and directly opposite on the strike jamb. For rebate opening heights up to and including 1520 mm (60") provide two anchors, and an additional anchor for each additional 760 mm (30") of height or fraction thereof, except as indicated below. Frames in previously placed concrete masonry or structural steel shall be provided with anchors located not more than 150 mm (6") from the top and bottom of each jamb, and intermediate anchors at 660 mm (26") on centre maximum. Minimum anchors steel thickness 1.6 mm (6 Gauge).
 - .6 Each door opening shall be prepared for single grey or black stud neoprene door silencers, three for single door openings, and two for double door openings.
 - .7 Provide factory-applied touch up primer at areas where zinc coating has been removed during fabrication.
 - .8 Fire labelled frame products shall be provided for those openings requiring fire protection ratings, as scheduled on the drawings. Such products shall be tested to CAN4-S104-M, ASTM E152, or NFPA 252 and listed by a nationally recognized agency having a factory inspection service and shall be constructed as detailed in Follow-Up Service Procedures / Factory Inspection Manuals issued by the listing agency to individual manufacturers.
 - .9 Corrugated Steel Frame Tee Anchors: Thickness and design approved by ULC.
 - .10 Glazing Stops in Fire Rated Frames: Commercial grade 1.5 mm (16 Gauge) sheet steel thickness and ULC approved design. All approved design.
 - .11 Glazing Stops-Non-Fire Rated Doors and frames: Minimum 0.8 mm (20 gauge) base thickness sheet metal with zinc finish as per door, tamperproof on exterior doors, screw fixed on interior doors.

- .12 Reinforcing Channel: To CAN/CSA-G40.21, Type 300W.
- .13 Primer: For touch up, rust inhibiting primer to CAN/CGSB-1.181.
- .14 Specialty trims: "J" shaped electro-galvanized steel trims, to cover cut ends of concrete blocks where new doors cut into existing walls. Custom shape and size trims to suit door and wall conditions.

2.2 FABRICATION

- .1 Fabricate doors, panels, screens and frames as detailed in accordance with Canadian Steel Door and Frame Manufacturers Association, "Specifications for Commercial Steel Doors and Frames", for insulated, hollow steel and honeycomb core construction, except where specified otherwise.
- .2 Fabricate fire rated doors and frames in accordance with details, approved shop drawings and ULC requirements at the time of printing.
- .3 Provide temperature rise doors where indicated in the door schedule, Doors shall have fire rated mineral cores as manufactured by RODIX or Georgian Pacific.
- .4 Stiffen interior doors with honeycomb core, laminated to face sheets under pressure. Insulate exterior doors, using manufacturer's recommended adhesive and pressure.
- .5 Fabricate interior doors and frames of wipe coat galvanized steel.
- .6 Fabricate interior steel frames in minimum thickness of 1.6 mm (16 gauge) thick sheet steel.
- .7 Grind welded corners and joints to flat plane, fill with metallic paste filler and sand to uniform smooth finish.
- .8 Close tops of exterior doors with steel caps in minimum thickness 1.6 mm (16 gauge) so they are flush with face edges. Close top of interior doors with PVC caps.
- .9 Mortise, reinforce, drill and tap doors and reinforcements to receive hardware using templates provided by finish hardware supplier.
- .10 Doors to have tack welded and filled seams, ground smooth. Tack weld 6 in. on centre.
- .11 Make provision for glass where indicated and provide glazing stops.
- .12 Provide astragals for pairs of doors in accordance with ULC requirements.
- .13 Protect strike and hinge reinforcements using guard boxes welded to frames.
- .14 Weld in two channel spreaders per frame, to ensure proper frame alignment.
- .15 Provide for anchorage of frames to floors. Provide 1.6 mm (16 gauge) angle clips, with two holes for floor anchorage welded to frame.
- .16 Reinforce head of frames wider than 1200 mm (4' - 0").
- .17 Provide frames with manufacturer's proprietary anchorage system suitable to secure frame rigidly to wall assembly. Secure frames set into previously constructed concrete or masonry openings by countersunk expansion bolts at same centres as for adjustable Tee-anchors. Reinforce frame at fastening location to prevent indentation of frame by fastening device.

- .18 Construct rail and stile doors in same manner as flush doors.
- .19 Construct matching panels in same manner as doors.
- .20 Chemically treat surfaces of plain steel doors and frames and apply one coat of primer.
- .21 Attach ULC labels to doors and frames requiring fire rating.
- .22 Install three (3) bumpers on strike jamb for each single door and two bumpers at head for pairs of doors.

3 EXECUTION

3.1 INSTALLATION

- .1 This part does not apply to this Section. Doors and frames shall be installed by Section 06 20 00.
- .2 Install fire rated frames, doors and fire door hardware to NFPA 80.

3.2 GLAZING INSTALLATION

- .1 Refer to Section 08 80 00 for glazing.

3.3 ADJUSTING AND CLEANING

- .1 Adjust operable parts for correct function.

END OF SECTION

1 GENERAL

1.1 INSTRUCTIONS

- .1 Comply with the Instructions to Bidders, the General Conditions of the Contract, the Supplementary Conditions and the General Requirements of Division 1.
- .2 Report in writing to the General Contractor any defects of surfaces or work prepared by other Sections which affect the quality or dimensions of the Work. Commencement of work implies acceptance of existing conditions and work by others.

1.2 SECTION INCLUDES

- .1 Provide the following hardware which is covered under the finishing hardware allowance in Section 01 21 00:
 - .1 Hollow Metal Doors Hardware:
 - (1) Universal washroom kit (1)
 - (2) Butt hinges (15)
 - (3) Overhead stop (4)
 - (4) Passage Lock Set (2)
 - (5) Push to Lock for BF Washroom (1)
 - (6) Passage Lock with Privacy Indicator Deadbolt (3)

1.3 ALLOWANCES

- .1 The Contract Price includes a stipulated sum cash allowance as specified in Section 01 21 00.
- .2 Cash Allowance: cover all items supplied under this Section, to be selected by the Consultant at a later date.

1.4 RELATED SECTIONS

- .1 Section 06 20 00 – Finish Carpentry: Installation of hardware for hollow metal and wood doors and frames.

1.5 SUBMITTALS

- .1 Hardware Schedule: Submit a hardware schedule showing a detailed list of finish hardware complete with a description, purpose and location of each hardware item.
- .2 Templates: Upon award of Contract, furnish promptly to the applicable trades, any patterns, templates, template information and manufacturer's literature required to the proper preparation for the application of hardware, in ample time to facilitate the progress of the work.

1.6 DELIVERY, STORAGE AND HANDLING

- .1 Deliver materials undamaged, in original wrappings or containers with manufacturer's labels and seals intact.
- .2 Pack finishing hardware for each floor, etc., where possible, in the same carton complete with all screws, expansion shields and necessary fittings for fixing same.

- .3 Clearly label cartons and packages designating contents and locations for which each item is intended. Indicate on packing memos carton in which each item is packed.

1.7 REJECTIONS

- .1 Defective materials or quality of work whenever found at any time prior to final acceptance of the work shall be rejected regardless of previous inspection. Inspection will not relieve responsibility but is a precaution against oversight and error.
- .2 Remove and replace defective materials and work of other trades affected by this replacement, at no additional cost to the Owner.

1.8 EXTRA MATERIALS

- .1 At the completion of the Work, supply Owner with the following:
 - .1 Two (2) sets of manufacturer's instructions for door closers, locksets, door holders and panic hardware.

2 PRODUCTS

2.1 MATERIALS

- .1 Provide new materials in perfect condition, free from defects impairing durability or appearance. In every case hardware shall be of quality design, and finish suitable for the purpose for which it is intended.
- .2 Fastenings
 - .1 Provide hardware complete with screws, bolts, expansion shields and other fastening devices as required for the satisfactory installation and operating of the hardware.
 - .2 Provide fastening devices of the same finish as the hardware which is to be fastened.
- .3 Keying
 - .1 Lay out the keying system for the building in consultation with the Consultant. Keying system shall include keying alike, keying differently, keying in groups, master keying and grand master keying locks as required.
 - .2 Keying chart and related explanatory data shall be prepared and submitted to the Consultant for his approval, and lock work shall not be commenced until written confirmation of keying arrangements is received from the Consultant.

2.2 SHOP FINISHES

- .1 Provide hardware of type and finish in accordance with, and equal in all respects to the samples of hardware and finishes approved by the Consultant.
- .2 Metal finishes shall be free from defects, clean and unstained, and of a uniform colour and finish for each type of finish required.

3 EXECUTION

3.1 ADJUSTING

- .1 The services of a competent mechanic shall be provided without additional cost to the Owner.
- .2 Mechanic: inspect the installation of all hardware furnished under this Section and supervise all adjustments (by the trades responsible for fixing) which are necessary to leave hardware in perfect working order.

3.2 DEMONSTRATION

- .1 Demonstrate proper care of hardware to Owner as specified in Section 01 77 00, including:
 - .1 lubrication of locksets,
 - .2 adjustments of door closers,
 - .3 cleaning, and
 - .4 general maintenance.

END OF SECTION

1 GENERAL

1.1 INSTRUCTIONS

- .1 Comply with the Instructions to Bidders, the General Conditions of the Contract, the Supplementary Conditions and the General Requirements of Division 1.
- .2 Report in writing to the General Contractor any defects of surfaces or work prepared by other Sections which affect the quality or dimensions of the Work. Commencement of work implies acceptance of existing conditions and work by others.

1.2 SECTION INCLUDES

- .1 Supply and install automatic swing door operators as detailed on drawings. Co-ordinate installation and operation of new work with existing doors, frames, and controls such as card access system, to suit owners requirements and maintain continued public access to premises during work.

1.3 RELATED SECTIONS

- .1 Section 06 20 00 – Finish Carpentry: Installation of hardware for hollow metal and wood doors and frames.
- .2 Section 06 40 00 – Architectural Woodwork: Supply and Installation of hardware for millwork and casework.
- .3 Section 08 70 00 – Hardware: Supply of door hardware.
- .4 Section 26 05 19 – Wires and Cables Section 26 05 33 – Conduits, Conduit Fastenings, and Conduit Fittings
- .5 Section 26 27 26– Wiring Devices

1.4 SUBMITTALS

- .1 Submit shop drawings as specified in Section 01 33 00, specifically provide the following:
- .2 Shop Drawings: showing assembly and installation details, methods and location of fastenings.

1.5 QUALITY ASSURANCE

- .1 Door operator shall be installed by manufacturer's authorized and trained personnel. The work shall be done in strict compliance with the manufacturer's recommendations.
- .2 Products will comply with UL listed standard 325, CSA standards and all OBC standards.

1.6 WARRANTY

- .1 Components shall be warranted to be free of defects in materials or workmanship under normal use for a period of two (2) years from the date of Substantial Performance. During the period of this warranty the manufacturer, will repair or replace any components or parts thereof found to be defective in material or workmanship if any necessary return charges are prepaid. Components repaired or replaced under this warranty are warranted only for the remainder of the period covered by this warranty.

1.7 DELIVERY, STORAGE AND HANDLING

- .1 Deliver materials undamaged, in original wrappings or containers with manufacturer's labels and seals in tact.
- .2 Clearly label cartons and packages designating contents and locations for which each item is intended. Indicate on packing memos carton in which each item is packed.

1.8 REJECTIONS

- .1 Defective materials or quality of work whenever found at any time prior to final acceptance of the work shall be rejected regardless of previous inspection. Inspection will not relieve responsibility but is a precaution against oversight and error.
- .2 Remove and replace defective materials and work of other trades affected by this replacement, at no additional cost to the Owner.

1.9 EXTRA MATERIALS

- .1 At the completion of the Work, supply Owner with the following:
 - .1 Two (2) sets of wrenches.
 - .2 Two (2) sets of manufacturer's instructions.

2 PRODUCTS

2.1 AUTOMATIC SWING DOOR OPERATORS

- .1 Automatic swing door operators shall be "Power Swing", self contained, surface mounted system, as manufactured by Besam Inc. [and supplied and installed by Hi-Techdoor Automation of Guelph, Ontario, (519) 824-5331.]
- .2 Operator Housing: The operator shall be completely contained in a 150 x 150 mm (6" x 6") extruded aluminum housing. The housing shall extend across entire door opening. Where located on a leaf of a double door, it shall extend over both doors. All aluminum sections shall be of 6006-T6 alloy and shall have a minimum wall thickness of 4 mm (0.156"). All exposed surfaces shall be finished to match existing door frames. The operator housing shall provide a seal against dust, dirt and moisture. Operator housing shall extend the full width of the door frames.
- .3 Finish: Stainless Steel.
- .4 Electrical Motor: Electric motor shall be minimum 1/4 HP, 120 V and shall be equipped standard with a built in thermal overload protection and shall not exceed 5 Amps.
- .5 Operator Assembly: Operator shall be non-handed and the power transmission shall be servo unit type with one moving part. Helical/mesh or chain driven system will not be accepted.
- .6 Electric Control: A self-contained, 100% solid state integrated circuit shall control the operation and switching of the swing door power operator. The electronic control shall provide low voltage power supply for all means of operation. No external or auxiliary low voltage source shall be allowed. The control shall include time delay (adjustable between 1 to 60 seconds) for normal cycle. Plug-in relays, resistors, contacts, etc., will not be accepted.
- .7 Push Buttons: Large 100 mm diameter flush mount.

.8 Function Switch: Provide keyed function switch located on door frame at 1500mm A.F.F. with the following set points:

.1 Off: No power to operator or buttons.

2.2 OPERATION

.1 Power Open: The automatic door operator shall be powered by a force transmitted by the electric motor to the servo unit and shall be connected by way of an adjustable arm linkage to the door. A constant opening pressure shall be maintained at all times. Both opening speed and backcheck must be individually adjustable. External/manual stops will not be accepted. The automatic door system shall function as a manual door closer in the event of a power failure, and allow for manual operation at all times, requiring no more than 5 - 7 pounds force on opening manually.

.2 Spring Close: The automatic door operator shall be spring closed action. The spring shall be non-handed and designed to counter-act wind and stack conditions, and return the door to its fully closed position. Both closing speed and latching shall be individually adjustable, without the need to change resistors or any other components.

.3 The automatic door system shall be self-contained, requiring no remote pumps or compressors. Pneumatic tubing will not be accepted.

.4 Operator must be adjusted with sufficient backcheck to prevent wind from damaging the door.

.5 Push and go feature will not be accepted.

.6 Manual reset buttons will not be accepted.

.7 Operator must be electro-hydraulic technology to ensure longer life with lower maintenance.

2.3 FASTENINGS

.1 Provide hardware complete with screws, bolts, expansion shields and other fastening devices as required for the satisfactory installation and operating of the hardware.

.2 Provide fastening devices of the same finish as the hardware that is to be fastened.

2.4 SHOP FINISHES

.1 Provide hardware of type and finish in accordance with, and equal in all respects to the samples of hardware and finishes approved by the Consultant.

.2 Metal finishes shall be free from defects, clean and unstained, and of a uniform colour and finish for each type of finish required.

3 EXECUTION

3.1 EXAMINATION

.1 Verify that the openings are plumb and are dimensioned properly. Insure adequate support has been provided for the operator header. Proceed with the installation only after conditions have been deemed satisfactory.

3.2 INSTALLATION

.1 Install equipment in accordance with manufacturer's installation guidelines.

- .2 Adjust equipment to ANSI 156.10.
- .3 Refer to Division 26 for wiring, connections and installation standards. Provide wiring diagrams and schematics.

3.3 ADJUSTING

- .1 The services of a competent mechanic shall be provided without additional cost to the Owner.
- .2 Mechanic: inspect the installation of hardware furnished under this Section and supervise adjustments (by the trades responsible for fixing) which are necessary to leave hardware in perfect working order.

3.4 DEMONSTRATION

- .1 Demonstrate proper care of hardware to Owner as specified in Section 01 79 00, including:
 - .1 lubrication,
 - .2 adjustments,
 - .3 cleaning, and
 - .4 general maintenance.

END OF SECTION

1 GENERAL

1.1 INSTRUCTIONS

- .1 Comply with the Instructions to Bidders, the General Conditions of the Contract, the Supplementary Conditions and the General Requirements of Division 1.
- .2 Report in writing to the General Contractor any defects of surfaces or work prepared by other Sections which affect the quality or dimensions of the Work. Commencement of work implies acceptance of existing conditions and work by others.

1.2 SECTION INCLUDES

- .1 Non-load-bearing steel stud partitions
- .2 Ceiling and bulkhead framing
- .3 Wall furring
- .4 All gypsum wallboard
- .5 Gypsum wallboard trims

1.3 RELATED SECTIONS

- .1 Section 05 40 00 – Cold-Formed Metal Framing.
- .2 Section 06 10 00 - Rough Carpentry: Wood support systems.
- .3 Section 09 51 00 - Acoustical Ceilings.

1.4 REFERENCES

- .1 CAN/CGSB-71.25-M88: Adhesive, for Bonding Drywall to Wood Framing and Metal Studs.
- .2 CAN/CSA-A82.27-M91: Gypsum Board.
- .3 CSA A82.31-M1980: Gypsum Board Application.
- .4 Gypsum Drywall Construction Handbook by Canadian Gypsum Company.
- .5 Manual of Gypsum Wallboard Construction by Gypsum Drywall Contractors International.

1.5 QUALITY ASSURANCE

- .1 Employ fully trained mechanics who are regularly employed in this field.

1.6 REJECTIONS

- .1 Defective materials or quality of work whenever found at any time prior to acceptance of the work shall be rejected regardless of previous inspection. Inspection will not relieve responsibility, but is a precaution against oversight and error.

- .2 Remove and replace defective materials and work of other Trades affected by this replacement, at no additional cost to the Owner.

1.7 DELIVERY, STORAGE AND HANDLING

- .1 Refer to Section 01 61 00.
- .2 Deliver and store Products in a dry area under cover, in original wrappings, cartons or containers clearly marked as to type, colour and manufacturer.
- .3 Store gypsum board flat. Take care to avoid undue sagging damage to ends, edges, or surfaces. Avoid stacking unequal lengths together.
- .4 Store gypsum board so that it is not in contact with new concrete floors - use dunnage at 400 mm (16") OC to raise board piles.

1.8 PROJECT CONDITIONS

- .1 Co-operate in co-ordinating work of other Sections with work of this Section, in order that the work may proceed in an orderly and effective manner.

2 PRODUCTS

2.1 MANUFACTURERS

- .1 Manufacturers of gypsum products having Products considered acceptable for use:
 - .1 CertainTeed.
 - .2 Canadian Gypsum Company.
 - .3 G-P Gypsum Company.
- .2 Manufacturers of metal studs, track, trim and accessories having Products considered acceptable for use:
 - .1 Bailey Metal Products.
 - .2 Canadian Gypsum Company.
 - .3 Chicago Metallic.
 - .4 Gordon Arch. Alum. Specialties.
 - .5 Pittcon Industries.
 - .6 Fire Trak Corp.

2.2 MATERIALS

- .1 Steel Studs: Minimum 0.55 mm (25 ga.) hot dipped or electro-galvanized sheet steel at 400 mm (16") OC, to ASTM C645; knockout pass-through holes at 460 mm (18") OC; Flanges minimum 30 mm (1¼") wide, edges bent back 90 degrees and doubled over; single length floor to ceiling.

- .2 Floor and Ceiling Track (standard application): Minimum 0.55 mm (25 ga.) hot dipped or electro-galvanized sheet steel at 400 mm (16") OC, to ASTM C645; Leg design minimum 25 mm (1") high; width to suit studs. Provide deflection track as required to suit deflection anticipated by structural conditions.
- .3 Ceiling Track (deflection application): Inner and outer deflection type tracks; minimum 0.91 mm (20 ga) x size to fit 92 mm (3 5/8") stud, and full galvanized G60 steel; by Bailey or approved equal. Refer to Standard Details.
- .4 Ceiling track (curved walls): Two 0.55 mm (25 ga.) continuous angles, crimped/cut to suit shape.
- .5 Ceiling Deflection Track and Firestop System: Fire Trak System by Fire Trak Corp., Kimball, MN (1-800-394-9875). System shall include 16 gauge galvanized steel ceiling runner profile (Shadowline, Cavity Shadowline, Reveal or Cavity Reveal) and Fire Trak Stud Clips.
- .6 Furring Channels: 19 mm, 22 mm (3/4", 7/8") - minimum .55 mm (25 gauge) G90 galvanized steel at 400 mm (16") OC.
- .7 Fasteners: Manufacturer's standard, suitable for application intended.
- .8 Tie Wire: 1.6 mm (16 gauge) galvanized soft annealed steel wire.
- .9 Hangers: 4.1 mm (No. 8) galvanized wire.
- .10 Carrying Channels: 39 mm x 19 mm - 1.6 mm (1½" x 3/4" - 16 gauge) G90 galvanized steel channel, for bulkhead construction.
- .11 Ceiling Suspension Systems
 - .1 Rigid "X" drywall suspension system by CGC Inc. or approved equal.
 - .2 System shall be comprised of 30 mm x 24 mm (1½" x 15/16") tee sections of 0.60 mm (24 gauge) steel and 73 mm x 22 mm (2" x 7/8") cross channels of 0.38 mm (26 gauge) hot dipped galvanized steel.
- .12 Furring Clips: Snap-on clips - 2.6 mm (12 gauge) wire.
- .13 Partition Attachment to T-bar: Use partition attachment clips PACS15 (standard edge) or PACR15 (Reveal Edge) by CGC Interiors.
 - .1 Securement Channel: 0.55 mm (25 gauge) galvanized steel - 50 mm x 25 mm (2" x 1") by Bailey or approved equal.
 - .2 Fasteners: Non-powder activated as recommended by manufacturer, suitable for wall composition by Rawl Tapcon or approved equal.

- .14 Gypsum Board: to CAN/CSA A82.27-M, as follows:
 - .1 Moisture and mold resistant wall panels conforming to ASTM C1658, glass mat water-resistant gypsum panel.
 - (1) 16mm (5/8") tapered edge, straight cut ends.
 - (2) 13mm (1/2") tapered edge, straight cut ends.
 - (3) Acceptable Products:
 - (a) DensArmour Plus by Georgia-Pacific Gypsum
 - (b) Glass-Mat Panels Mold Tough by CGC
 - .2 Fire Resistant Board (Type "X"): Minimum 16 mm (5/8") thick, tapered edges, straight cut ends, type X., identified for use in a ULC tested assembly.
 - .3 Abuse-Resistant Board: 16 mm (5/8") Sheetrock Abuse-resistant gypsum panels; tapered edges; panel weight minimum 2500 lbs./MSF
 - .4 Impact Resistant Board: 16 mm (5/8") high density core 40 bls. Hardness "Fiberbond" by Louisiana - Pacific (Phone: 1-800-411-2500 / 902-625-3070)

2.3 ACCESSORIES

- .1 Corner Bead, Bailey Tear off L Trim
- .2 Screws: Self-drilling, self-threading case hardened steel; length as recommended by board manufacturer for each application.
- .3 Adhesive: High strength, waterproof, compatible with materials; to CAN/CGSB-71.25-M.
- .4 Joint Filler: Casein, vinyl or latex base, slow setting, as recommended by board manufacturer.
- .5 Joint Tape: 50 mm (2") wide perforated paper as recommended by board manufacturer.
- .6 Primer Sealer: Alkyd based material recommended by board manufacturer.
- .7 Texture Finish and Primer - Sealer: Water based spray finish recommended by board manufacturer.
- .8 Access Door Panels:
 - .1 Material: Steel
 - .2 Door: 16-gauge, beveled edge
 - .3 Mounting Frame: 16 gauge. Flush to frame with reinforced edges, drywall taping bead flange
 - .4 Hinge: Concealed
 - .5 Size: 12" x 12"
 - .6 Standard Latch: Stainless steel screwdriver operated cam latch
 - .7 Finish: White alkyd baking enamel
 - .8 Acceptable Products:

- (1) Model # - BP-2002 by Acudor
- (2) Or equivalent by manufacturer acceptable to the Consultant

3 EXECUTION

3.1 EXAMINATION

- .1 Thoroughly examine all surfaces scheduled to receive work of this Section to see that they are secure, rigid, true and not liable to impair performance or appearance of this Trade's work.
- .2 Commencement of work implies total acceptance of surface and site conditions.

3.2 PREPARATION

- .1 Protect work of other trades from damage resulting from work of this trade.
- .2 Make good any resulting damage, to the satisfaction of the Consultant, at no additional cost.
- .3 Maintain uniform temperature in work area, adequate for work being performed, as recommended by materials manufacturer.
- .4 Keep temperature as uniform as possible with deflectors or screens.
- .5 Provide air circulation if humidity is excessive. Avoid high temperature with low humidity. Avoid force drying.
- .6 Allow concrete and masonry to dry thoroughly before installing gypsum board.
- .7 Protect installed materials from weather and dampness.
- .8 Replace any damaged work before further work proceeds.
- .9 Promptly, as the work proceeds and upon completion, clean-up and remove from the site all rubbish and surplus material resulting from work of this trade.

3.3 QUALITY OF WORK

- .1 Erect framing level, plumb and true; to a tolerance of 5 mm in 3 metres (1/4" in 10'), and square with adjoining work.

3.4 APPLICATION

- .1 Framing System
 - .1 Metal Stud Partitions
 - (1) Place studs vertically at 400 mm (16") centres and not more than 50 mm (2") from abutting walls, openings, and each side of corners. Install studs in tracks at floors and ceiling.
 - (2) Provide freedom for deflection under beams and structural slabs.
 - (3) Permanently attach studs for cornice height partition to top and bottom track.
 - (4) Full-height stud each side of opening.
 - (5) Erect track at head and/or sill of opening to accommodate intermediate studs above and/or below opening in same manner and spacing as wall studs. Screw fasten members together adjacent to openings.

- .2 Deflection Head Allowance
 - (1) Allow for a maximum of 2" deflection under beams and structural slabs by utilizing outer and inner top tracks as per Standard Details in this Section.
- .3 Fire Dampers in Fire Rated Partitions
 - (1) Frame openings for fire dampers required by the Mechanical Contractor. Provide a 13 mm (1/2") drywall filler piece inside the perimeter of opening before installation of the damper so as to maintain the partition fire rating.
- .4 Ceiling Suspension System
 - (1) Hangers for suspended gypsum board ceilings shall support the grillage independent of walls, columns, pipes, ducts: erect plumb and securely anchor to the structural frame or imbed into concrete slabs.
 - (2) Install angle moulding at wall perimeter at a level above the finished ceiling line equal to the total thickness of wallboard to be used. Install only on walls perpendicular to cross channels.
 - (3) Hang main tees in parallel rows spaced 1220 mm (4'-0") apart and supported by hanger wires spaced 1220 mm (4'-0") apart at same level as angle moulding. Main tees in adjacent rows must have cross tee slots in perpendicular alignment.
 - (4) Install cross-channels by snap locking into position in perpendicular rows spaced 400 mm (16") apart and not less than 200 mm (8") from parallel walls. Fasten ends of cross-channels to angle moulding with screws or pop rivets.
 - (5) Fire rated assemblies shall have additional cross-channels within 200 mm (8") of all butt joints and openings for ducts or light fixtures. Allowable percentage of openings and additional wallboard enclosures shall conform to U.L.C. design criteria.
- .2 Wall Furring
 - .1 Attach furring channels to masonry or concrete surfaces at 400 mm (16") OC and not more than 100 mm (4") from corners and openings.
 - .2 Wallboard Application: Always leave a 3 mm (1/8") to 6 mm (1/4") gap between wall board and floor.
- .3 Single Layer Board
 - .1 Screw-on Application
 - (1) Erect gypsum board horizontally or vertically on walls; across framing on ceilings; and secured to the framing with drywall screws at:
 - (2) Ceilings: 300 mm (12") OC
 - (3) Walls:
 - (a) 300 mm (12") OC along ends of board
 - (b) 200 mm (8") OC at perimeters of board
 - (c) 300 mm (12") OC through centre of board.
 - (4) Where it must be applied parallel, support or furring must be provided at maximum 400 mm (16") OC.
 - (5) Allow for 1/4" gap between bottom of gypsum board and top of floor.
 - (6) Ceiling board: 12.7 mm (1/2") minimum thickness.
 - .2 Adhesive Application

- (1) Apply panel adhesive in 6 mm (1/4") beads to face of framing members or masonry substrate, using caulking gun. Avoid adhesive squeeze-out at joints.
 - (2) Erect gypsum board immediately, press firmly into place and drive supplementary screw fasteners at 600 mm (24") centres.
 - (3) Apply adhesive in well ventilated area. Avoid open flame.
- .3 Screw-on Application
- (1) Apply base layer horizontally and screw fasten. Apply face layer vertically and screw fasten in the same manner as base layer.
 - (2) Screw fastening spacing shall be at 300 mm, 600 mm (12", 24") centres.
 - (3) Locate joints over framing and secure with screws.
- .4 Adhesive Application
- (1) Adhere base layer to framing with 6 mm (1/4") adhesive beads.
 - (2) Laminate face layer to base layer, using Panel Adhesive (Joint Filler).
- .4 Tilebacker Board
- .1 Fasten to framing with screws at 200 mm (8") centres where ceramic tile finish is called for on stud partitions.
 - .2 Apply 50 mm (2") glass fibre tape over joints and corners, embed with mortar or adhesive used to set tile.
- .5 Control Joints
- .1 Gypsum board surfaces should be isolated with control joints or other stress relief where:
 - (1) partition or furring abuts a structural element or dissimilar wall or ceiling;
 - (2) ceiling abuts a structural element, dissimilar wall or partition or other vertical penetration;
 - (3) construction changes within the plane of the partition or ceiling;
 - (4) partition or furring run exceeds 9 m (30');
 - (5) ceiling dimensions exceed 15 m (50') for drywall in either direction;
 - (6) exterior soffit dimensions exceed 9 m (30') in either direction;
 - (7) wings of "L", "U" and "T" -shaped ceiling areas are joined;
 - (8) expansion or control joints occur in the structural elements of the building.
 - .2 Ceiling-height door frames may be used as control joints, as may less-than-ceiling-height door frames if control joints extend to ceiling from both corners.
 - .3 Leave a 13 mm (1/2") continuous opening between gypsum boards for insertion of surface-mounted joint.
 - .4 Interrupt wood floor and ceiling plates with a 13 mm (1/2") gap, wherever there is a control joint in the structure.
 - .5 Do not attach steel studs on one side of control joint.
 - .6 Provide separate supports for each control joint flange.
 - .7 Provide an adequate seal behind control joint where sound and/or fire ratings are prime considerations.

- .8 Agree on exact locations of joints with the Consultant.
- .9 Use drywall screws to fasten board to framing.
- .10 Minimum fastener length to provide:
 - (1) 10 mm (3/8") minimum penetration into steel framing.
 - (2) 16 mm (5/8") minimum penetration into wood framing.
- .11 Drive screws perpendicular to face of board with sufficient penetration of screw head to sink below the surface of board without breaking the paper face.
- .12 Start securing board from the centre and work towards perimeter.
- .13 Hold board firmly to framing while fastening.
- .14 Do not set unlike edges together; always mate square to square or tapered to tapered edges.
- .15 Install casing bead at junction with dissimilar materials.

3.5 FINISHING

- .1 Install corner bead and other metal trims as required to finish board.
- .2 Fill and tape joints and fill over fastenings. Sand lightly.
- .3 Where painted surfaces are required fill and tape all joints and nail holes in the conventional manner. Allow to dry thoroughly and then skim coat all board surfaces by mixing the joint compound slightly thinner than for joint taping. Lightly cover the entire board surface using a trowel or board knife. Immediately scrape the excess joint compound off to fill surface texture and variations. Allow the skim coat to dry completely then carefully sand away any ridges in preparation for painting.
- .4 Leave finished work smooth, plumb and true ready for painting (vinyl wall covering) by others.

END OF SECTION

1 GENERAL

1.1 INSTRUCTIONS

- .1 Comply with the Instructions to Bidders, the General Conditions of the Contract, the Supplementary Conditions and the General Requirements of Division 1.
- .2 Report in writing to the General Contractor any defects of surfaces or work prepared by other Sections which affect the quality or dimensions of the Work. Commencement of work implies acceptance of existing conditions and work by others.

1.2 INTENT

- .1 Provide all articles, labour, materials, equipment, transportation, hoisting and incidentals noted, specified or required, to complete the work of this Section.

1.3 SECTION INCLUDES

- .1 Provide all ceramic tile and required accessories as indicated on the drawings, room finish schedule, and colour schedule, including but not limited to, the following:
 - .1 Porcelain floor tiles.
 - .2 Porcelain wall tiles.
 - .3 Porcelain base.
 - .4 Grouting.
 - .5 Adhesives.
 - .6 Setting materials: Sand, cement, lime.
 - .7 Ceramic accessories.
 - .8 cleaning of ceramic tile installation.

1.4 RELATED SECTIONS

- .1 Section 04 20 00 – Unit Masonry.
- .2 Section 09 21 16 – Gypsum Board Assemblies.
- .3 Section 22 13 13 Sanitary Drains –

1.5 REFERENCES

- .1 ANSI A108.5-2005: Ceramic Tile Installed with Dry-Set Portland Cement Mortar or Latex-Portland Cement Mortar.
- .2 ANSI A118.3-2005: Water Cleanable Tile Setting and Grouting Epoxy.
- .3 ANSI A118.4-2005: Latex-Portland Cement Mortar.
- .4 ANSI A118.6-2005: Ceramic Tile Grouts.

- .5 ASTM C370-88 (2006): Standard Test Method for Moisture Expansion of Fired Whiteware Products.
- .6 ASTM C372-94 (2001): Standard Test Method for Linear Thermal Expansion of Porcelain Enamel and Glaze Frits and Fired Ceramic Whiteware Products by the Dilatometer Method.
- .7 ASTM C373-88 (2006): Standard Test Method for Water Absorption, Bulk Density, Apparent Porosity, and Apparent Specific Gravity of Fired Whiteware Products.
- .8 ASTM C424-93 (2006): Standard Test Method for Craze Resistance of Fired Glazed Whiterwares by Autoclave Treatment.
- .9 ASTM C484-99 (2003): Standard Test Method for Thermal Shock Resistance of Glazed Ceramic Tile.
- .10 ASTM C485-83 (2003)e1: Standard Test Method for Measuring Warpage of Ceramic Tile.
- .11 ASTM C499-78 (2003): Standard Test Method for Determining Facial Dimensions and Thickness of Flat, Rectangular Wall and Floor Tile.
- .12 ASTM C501-84 (2002): Standard Test Method for Relative Resistance to Wear of Unglazed Ceramic Tile by the Taber Abraser.
- .13 ASTM C502-04: Standard Test Method for Wedging of Flat, Rectangular Ceramic Wall and Floor Tile.
- .14 ASTM C609-90 (2000): Standard Test Method for Measurement of Small Colour Differences between Ceramic Wall or Floor Tile.
- .15 ASTM C648-04: Standard Test Method for Breaking Strength of Ceramic Tile.
- .16 ASTM C1026-87 (2002): Standard Test Method for Measuring Frost Resistance of Ceramic Tile to Freeze Thaw Cycling.
- .17 ASTM C1027-99 (2004): Standard Test Method for Determining Visible Abrasion Resistance of Glazed Ceramic Tile.
- .18 ASTM C1028-06: Standard Test Method for Evaluating the Static Coefficient of Friction of Ceramic Tile, and Other Like Surfaces by the Horizontal Dynamometer Pull Meter Method.
- .19 CAN/CGSB-75.1-M88: Tile, Ceramic.
- .20 Terrazzo Tile & Marble Association of Canada (TTMAC): Tile Specification Guide 09300 -2002.

1.6 REJECTIONS

- .1 Defective materials or quality of work whenever found at any time prior to acceptance of the work shall be rejected regardless of previous inspection. Inspection will not relieve responsibility, but is a precaution against oversight and error.
- .2 Remove and replace defective materials and work of other Trades affected by this replacement, at no additional cost to the Owner.

1.7 PERFORMANCE REQUIREMENTS

- .1 All installation assemblies will be composed of materials from the same manufacturer and be completely compatible. The completed assembly will meet the service requirements “extra-heavy” or “heavy” passing ASTM C627 cycles 1 thru 14 as described in the Tile Council of America Handbook 1997 (page number 10) and recognized by TTMAC (tile, Terrazzo, Marble Association of Canada) and the CTCIA.
- .2 Install tiles to comply with ANSI A108.5 (80% uniform bonding mortar contact between the tile and the substrate. 95% uniform bonding mortar contact for exterior application).
- .3 Provide only those products that meet or exceed the performance standard of CAN/CGSB-75.1-M, as follows:
 - .1 Factor of sliding friction on a dry surface using a leather test surface to be 0.50.
 - .2 Factor of sliding friction on a wet surface using a leather test surface to be 0.60.
 - .3 Factor of sliding friction on a dry surface using a rubber test surface to be 0.70.
 - .4 Factor of sliding friction on a wet surface using a rubber test surface to be 0.65.
- .4 Provide only those products that meet or exceed the performance standards as described in the specified ASTM Standards.

1.8 SUBMITTALS

- .1 Submit manufacturer test and performance data as specified in Section 01 33 00.
- .2 Manufacturer Test and Performance Data: indicating slip resistance, compressive strength, water absorption, coefficient of expansion, conductivity, and other pertinent values for each type of tile specified.
- .3 Do not commence work until the performance data sheets are reviewed.

1.9 SAMPLES

- .1 Submit samples as specified in Section 01 33 00.
- .2 Selection Samples: duplicate set of available tile sizes, shapes, and colours for selection by Consultant.

1.10 CLOSE-OUT SUBMITTALS

- .1 Submit three (3) copies of the manufacturer's maintenance instructions, for porcelain floor and ceramic wall tile, to the Consultant upon completion of the ceramic installation. Refer to Section 01 78 10.

1.11 DELIVERY, STORAGE AND HANDLING

- .1 Refer to Section 01 61 00.
- .2 Deliver and store Products in original cartons, clearly marked as to type, colour and manufacturer.
- .3 Store Products in a warm, dry area.

- .4 The Tile Contractor will be responsible to insure the timely arrival of installation materials on site and he will order the appropriate approved materials with sufficient lead time to insure that no delays are incurred due to late material procurement.

1.12 WARRANTY

- .1 Manufacturer's Extended Warranty: Submit a written warranty stating that the products used on each assembly will be free from manufacturing defects so that these products will not breakdown or deteriorate for a period of five (5) years from the date of substantial completion when installed in accordance with the manufacturers written specifications and guidelines.

2 PRODUCTS

2.1 MANUFACTURERS

- .1 Substitution Procedures: as specified in Section 01 33 00.

2.2 MATERIALS

- .1 Porcelain Floor Tile: 305mm x 610mm (12" x 24") size; Regal Series by Olympia Tile or accepted alternate, colours as selected by Consultant from supplier's full range of colours.
- .2 Porcelain Wall Tile: 100mm x 400mm (4" x 12") size; Colour + Dimension Series by Olympia or accepted alternate, colours as selected by Consultant from supplier's full range of colours.
- .3 Porcelain Base: 100mm (4") x length of tile size, to match floor tile.
 - .1 Colour as selected by Consultant from supplier's full range of colours to match floor tile.
 - .2 All walls in spaces calling for porcelain tile shall have matching porcelain wall base including on walls that call for ceramic tile.
- .4 Grout:
 - .1 Floor: Laticrete Tri-Poly Fortified Sanded Grout (1500 Series) or Laticrete Tri-Poly Fortified Unsanded Grout (1600 Series) gauged with Laticrete 1776 Admix Plus as manufactured by Laticrete International Inc., complete with grout sealer compatible with and recommended by manufacturer.
 - .2 Wall: Latex Grout ANSI A118.6 for Latex Portland Cement Grout.
- .5 Adhesives: Wall and Floor/Concrete, Blockwall, Cement Backer Board, Drywall Laticrete 4237 Latex thin-set. Mortar additive mixed with Laticrete 211 Crete Filler powder. (ANSI A118.4 for Latex Thinset Mortars).
- .6 Plywood Substrates: Laticrete 333 super flexible admix with Laticrete Drybond floor/wall thinset, or Latapoxy 210 modified epoxy adhesive.
- .7 Trim and Control Joints: Schluter - Systems Trims and Control Joints or approved equal by Bengard Manufacturing Ltd.
- .8 Outside Corner Trim: Schluter - "Jolly" anodized aluminum trim for all outside corners on tile surfaces.
- .9 Transition Trim: Schluter - "Reno" extruded aluminum edge trim for barrier free access.
- .10 Control Joint: Schluter - "Dilex" BWS for control joints, colour to match adjacent grout.

- .11 Perimeter Control Joint: Schluter - "Dilex" - BWA for control joints at perimeter and around columns.

3 EXECUTION

3.1 EXAMINATION

- .1 Before starting the work, examine existing surfaces to be covered and report to the Consultant, in writing, all defects of work prepared by others and unsatisfactory existing conditions.
- .2 Do not commence until surfaces specified to receive tile are dry, clean, level: free from cracks, ridges, dusting, scaling, carbonation, mortar droppings, parging, curing compounds, grease, oil, or other foreign material liable to impair adhesion, performance or appearance.
- .3 Commencement of work implies total acceptance of surface conditions.
- .4 Dry or dusty concrete or masonry surfaces shall be wet down or washed and excess water removed just prior to the application of finish.
- .5 Waive the right to any after claims by failure to comply with the above procedure of examination.

3.2 BREAKAGE

- .1 Make good any and all breakage resulting from faulty materials or installation.

3.3 QUALITY OF WORK

- .1 Ceramic tile application shall comply with TTMAC Tile Specification Guide 09300, the Tile Council of America Handbook for Ceramic Tile Installation, and relevant ANSI Standards.
- .2 Provide 80% uniform bonding mortar contact between the tile and the substrate for interior applications and 95% uniform bonding mortar for exterior application.
- .3 Install ceramic tiles over a "crack-free" substrate. All concrete joints or cracks should be in direct alignment with the tile expansion joints.
- .4 Control Joints
 - .1 For interior ceramic tile the control joint should be placed every 4.88 – 6.10 metres (16'-20') apart.
 - .2 All area control joints should also be placed around perimeter, around columns and where tile abuts other hard materials. Control joints must always be placed directly over all slab control and expansion joints.
- .5 The ambient air temperature and structural base temperature should be no less than 12 degrees C (56 degrees F) during application of ceramic tile and during curing period. Epoxy mortars and grouts require temperatures between 10 degrees and 30 degrees C (50 degrees and 90 degrees F).
- .6 Neatly cut tile around fitments, fixtures and drains. Form intersections, corners and returns accurately.
- .7 Make joints in tile uniform in width, subject to normal variance in tolerance allowed in tile size. Joints shall be watertight without voids, cracks, excess mortar, or grout. Joints between sheets to be of same width as joints between individual tiles.
- .8 All internal angles of base to be square . External angles to be bullnose. Bullnose to be from full size tile.

- .9 Where floor tile is required to be laid so floor slopes to drains it will be this Contractor's responsibility to ensure that the slopes are achieved and that no water ponds or lodges behind ridges. Use Laticrete 3701 Latex Mortar Admix with Laticrete 226 thick bed mortar as per manufacturer's instructions to achieve required consistencies and a 5 year warranty mortar bed.
- .10 Sound tile after setting; remove and replace hollow backed tile.
- .11 Allow minimum 24 hours after setting prior to grouting. Do not permit foot traffic for a minimum of 48 hours.
- .12 Completed work shall be free of broken, damaged or faulty tile.
- .13 Carry out layout of tile in accordance with the Consultant's approved tile colour percentages and patterns.
- .14 Pattern to be uninterrupted through doorways
- .15 All tiles should be fully embedded with at least 95% coverage of mortar on the back of tiles. Backbutter tiles larger than 200 x 200 mm (8" x 8") in size.

3.4 CLEANING AND PROTECTION

- .1 Protect the ceramic tile work during the period of construction.
- .2 Remove all excess material and debris from the site and thoroughly wash and clean the tile work upon completion of the ceramic tile installation.
- .3 Do not use muriatic acid for cleanup.
- .4 Protect the finish floor installation with a suitable and durable material or by keeping traffic off the floor until the area is ready for occupancy.

END OF SECTION

1 GENERAL

1.1 INSTRUCTIONS

- .1 Comply with the Instructions to Bidders, the General Conditions of the Contract, the Supplementary Conditions, and the General Requirements of Division 1.
- .2 Report in writing to the General Contractor any defects of surfaces or work prepared by other Sections which affect the quality or dimensions of the Work. Commencement of work implies acceptance of existing conditions and work by others.

1.2 INTENT

- .1 Provide all articles, labour, materials, equipment, transportation, hoisting, and incidentals noted, specified, or required, to complete the work of this Section.

1.3 SECTION INCLUDES

- .1 Provide all acoustic tile and required accessories as indicated on the working drawings, room finish schedule, including but not limited to the following:
 - .1 Acoustic Tile
 - .2 "T" Grid Suspension System

1.4 RELATED SECTIONS

- .1 Section 09 21 16 - Gypsum Board Assemblies.
- .2 Mechanical and Electrical Divisions: for installation of grilles, diffusers, lighting and additional requirements

1.5 REFERE NCES

- .1 ASTM C635-00: Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.
- .2 ASTM C636-04: Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels.
- .3 ASTM E84-06: Standard Test Method for Surface Burning Characteristics of Building Materials.
- .4 ASTM E1264-98: Standard Classification for Acoustical Ceiling Products.

1.6 SAMPLES

- .1 Submit minimum 300 mm x 300 mm (1'-0" x 1'-0") samples of acoustic tile, as required for completion of the work for the Consultant's review before proceeding with the acoustic tile work.
- .2 Submit samples of acoustic products in type specified for approval by the Consultant.

1.7 CLOSE-OUT SUBMITTALS

- .1 Submit two copies of the manufacturer's maintenance directions for each type of acoustic panel or tile.

1.8 PERFORMANCE REQUIREMENTS

- .1 Design and install the ceiling system to support the weight of the light fixtures, maximum deflection of 1/360 of the span.
- .2 Submit a letter stating that the ceiling system is capable of supporting the light fixtures. This letter is required to obtain Ontario Hydro-Electric Commission approval.

1.9 REJECTIONS

- .1 Defective materials or quality of work whenever found at any time prior to acceptance of the work shall be rejected regardless of previous inspection. Inspection will not relieve responsibility, but is a precaution against oversight and error.
- .2 Remove and replace defective materials and work of other Trades affected by this replacement, at no additional cost to the Owner.

1.10 DELIVERY, STORAGE AND HANDLING

- .1 Refer to Section 01 61 00.
- .2 Deliver acoustic tile and materials in undamaged and original containers and make certain that the storage area is dry.

1.11 EXTRA MATERIALS

- .1 Furnish the Owner with 2 percent extra materials of each type of ceiling tile to be used for future repair work.

2 PRODUCTS

2.1 MANUFACTURERS

- .1 Armstrong World Industries Limited (Ceiling Tile and Suspension)
- .2 CGC Limited (Ceiling Tile and Suspension)
- .3 Bailey Metal Products (Suspension)

2.2 ACOUSTIC CEILING TILE TYPE 1

- .1 Suspension system: to ASTM C635; Prelude XL 15/16" by Armstrong, Colour: white.
- .2 Acoustical Panels: to ASTM E1264, Cortega 823 Fireguard by Armstrong (610mm x 1220mm x 16mm), Colour: white.

3 EXECUTION

3.1 EXAMINATIONS

- .1 Report to the Consultant, in writing, all defects of work prepared by other trades and on unsatisfactory site conditions.

- .2 Do not commence the work of this Division until this Contractor has thoroughly examined all areas to receive an acoustic tile installation and has ascertained the compatibility of the installation of his material with the other trades involved directly or indirectly with this work, and has found the areas in a condition suitable for the commencement.
- .3 Consult and co-operate with trades whose work precedes or follows his work to permit an orderly and effective procedure in the execution of the work of this section.
- .4 Commencement of the work of this Section implies total acceptance of all applicable conditions by the Acoustic Tile Contractor.
- .5 Waive the right to any after claims by failure to comply with the above procedure of examinations.

3.2 QUALITY OF WORK AND APPLICATION

- .1 Install the tile and suspension system to ASTM C636, and in accordance with the manufacturer's specifications.
- .2 Plumb and square finish work with adjoining work.
- .3 Lay the work out, in accordance with the Consultant's approved reflected ceiling plan, symmetrical within each area to obtain uniform borders of at least half the acoustic panel size.
- .4 Distribute variations in shades of finish from several cartons of panels uniformly over the ceiling area.
- .5 Erect the suspension system level with tolerance of 3 mm (1/8") in 3600 mm (12').
- .6 Exposed main tees shall be as long in length as practical to minimize joints. Joints shall be tight, square flush, and reinforced with splines. Distribute jointing over the ceiling area.
- .7 Use edge moulding or shadow moulding where ceiling abuts vertical surfaces as indicated on the drawings. Use corner moulding along external edges at ceiling steps.

3.3 CLEANING AND PROTECTION

- .1 Be responsible for protection of all materials and work of this trade from damage during period of construction.
- .2 Be responsible for the protection of the work of other Contractors (trades) from damage resulting from work of this trade. He shall make good any resulting damage, to the satisfaction of the Consultant at his own expense.
- .3 Promptly, as the work proceeds and on completion, clean-up and remove from the premises all rubbish and surplus materials resulting from the foregoing work.

END OF SECTION

1 GENERAL

1.1 INSTRUCTIONS

- .1 Comply with the Instructions to Bidders, the General Conditions of the Contract, the Supplementary Conditions and the General Requirements of Division 1.
- .2 Report in writing to the General Contractor any defects of surfaces or work prepared by other Sections which affect the quality or dimensions of the Work. Commencement of work implies acceptance of existing conditions and work by others.

1.2 INTENT

- .1 Provide all articles, labour, materials, equipment, transportation, hoisting and incidentals noted, specified or required, to complete the work of this Section.

1.3 SECTION INCLUDES

- .1 Supply labour, material, and equipment for the complete and finished application of terrazzo to all areas indicated on the Room Finish Schedule, drawings and specification.
 - .1 Terrazzo Floors and Bases
 - .2 Curing Compounds and Admixes
 - .3 Surfacing and Grouting
 - .4 Cleaning and Sealing

1.4 RELATED SECTIONS

- .1 Section 04 20 00 – Unit Masonry.
- .2 Section 09 30 00 – Tiling.

1.5 REFERENCES

- .1 ASTM A185-02: Standard Specification for Steel Welded Wire Reinforcement, Plain, for Concrete.
- .2 CAN/CGSB-25.20-95: Surface Sealer for Floors.
- .3 CAN/CSA-A3001-03: Cementitious Materials for Use in Concrete.
- .4 Terrazzo, Tile and Marble Association of Canada (TTMAC): 2002 Terrazzo Specification Guide.

1.6 SAMPLES

- .1 Submit minimum 300 mm X 300 mm (1'-0" X 1'-0") samples, of terrazzo in colours and types specified for review by the Consultant.

1.7 QUALITY ASSURANCE

- .1 Installers: use mechanics with terrazzo training and experience as certified by the Terrazzo, Tile and Marble Association of Canada.

1.8 REJECTIONS

- .1 Defective materials or quality of work whenever found at any time prior to acceptance of the work shall be rejected regardless of previous inspection. Inspection will not relieve responsibility, but is a precaution against oversight and error.
- .2 Remove and replace defective materials and work of other Trades affected by this replacement, at no additional cost to the Owner.

1.9 DELIVERY, STORAGE AND HANDLING

- .1 Refer to Section 01 61 00.
- .2 Store materials in a warm dry room, undamaged, in original containers or cartons, and in an area that will not interfere with the work of other trades.

2 PRODUCTS

2.1 MATERIALS

- .1 It is intended that the materials for Terrazzo Flooring will match the existing flooring. Patched areas to blend into existing floor. Divider strips to be located to match existing.
- .2 Portland Cement: to CAN/CSA-A3000,
 - .1 Type 10, grey for underbed, topping colour to match existing flooring.
- .3 Sand, fine and coarse aggregates:
 - .1 To CSA A23.1/A23.2.
 - .2 Clean, washed, locally available.
 - .3 Oval aggregate.
- .4 Marble Chips: sound, free from dust and to match existing flooring. Graded in accordance with TTMAC standard. Abrasion resistance to ASTM C241/C241M.
- .5 Colour Pigments: Non-Fading Mineral Pigments to match existing flooring colours.
- .6 Waterproof/Sealer: non-staining, to CAN/CGSB-25.20.
- .7 Divider Strips: 32 mm (1¼") deep, standard B type. (Aluminum, brass, zinc) provided with necessary anchorage devices.
- .8 Non-Slip Aggregate: silicone carbide or aluminum oxide chips (Maximum Size No. 1) added to terrazzo topping; colour to match existing terrazzo flooring where existing
- .9 Non-Slip Strips: fine aluminum oxide with cement mixture.
- .10 Non-Slip Strip Channels: 10 mm x 10 mm (3/8" x 3/8"), 0.91 mm (0.036") thickness, dove tailed shaped channels with anchor tabs.
- .11 Reinforcing Mesh: to ASTM A185, 50 mm x 50 mm (2" x 2"), No. 16 x No. 16, steel, electric welded, galvanized after fabrication.

- .12 Slip Sheet: 0.05 mm (2 mil) thick polyethylene film.
- .13 Curing Compound: non-staining, as recommended by TTMAC.

3 EXECUTION

3.1 EXAMINATION

- .1 Report to the Consultant, in writing, any defects of work prepared by other trades and unsatisfactory site conditions.
- .2 Do not commence work of this Division until surfaces specified to receive terrazzo are dry, clean level; free from cracks, ridges, dusting, scaling, carbonation, mortar droppings, parging, curing compounds, grease, oil, or other foreign material liable to impair adhesion, performance or appearance.
- .3 Commencement of work implies total acceptance of all surface conditions by the Terrazzo Flooring Contractor.
- .4 Waive any after claims by failure to comply with the above procedure of examination.

3.2 SUBSTRATE TREATMENT

- .1 Bonded Terrazzo
 - .1 Clean base slab and saturate with water.
 - .2 Remove free water.
 - .3 Apply a slurry consisting of a thick paste of cement and water immediately preceding application of underbed.
- .2 Floating Terrazzo
 - .1 Broom clean base slab.
 - .2 Fill voids with loose sand.
 - .3 Apply 1 ply polyethylene film over sand.
 - .4 Lap joints 100 mm (4").
 - .5 Install mesh reinforcing over polyethylene. Lap mesh joints 50 mm (2") and nail or staple to wood flooring.
- .3 Underbed: 1 part cement to 4 parts sand. Wet and mix thoroughly.
 - .1 Apply over substrate; make allowance for terrazzo topping 19 mm (3/4").
 - .2 Allow a minimum 24 hours cure period before applying terrazzo topping.
 - .3 Use a maximum 18 litres (4 gallons) of water per bag of cement.
- .4 Divider Strips
 - .1 Install divider strips in underbed while it is still in a plastic state. Set strips true and level.

- .2 Divide floor area into panels 760 mm (2'-6") square approximately.
- .3 Separate terrazzo from resilient flooring and carpet floor areas.
- .4 Consultant to provide divider pattern layout.

3.3 TERRAZZO TOPPING

- .1 Terrazzo topping shall consist of 91 kg (200 lb.) of marble chips to 1 bag 36 kg (80 lb) of cement mixed dry.
- .2 Topping shall be minimum 16 mm (5/8") thick.
- .3 Topping shall contain integral waterproofing agent.
- .4 Soak underbed, minimum of 24 hours after installation, remove excess water, and apply a slurry of cement and colour using same proportions as topping.
- .5 Wet topping mixture, mix and apply to underbed while slurry is still wet. Sprinkle wetted marble chips to match sample. Roll with heavy rollers (minimum 91 g (200 lbs.)). Hand trowel to level topping flush with top of divider strips.
- .6 Surface and grout terrazzo when it has set sufficiently hard. Surface by machine rubbing with No. 24 grit or finer abrasive block. Use plenty of water during grinding.
- .7 Flush terrazzo surfaces with water only, after initial grinding.
- .8 Apply grout to fill voids. Mix grouts in same proportions of cement and colour as topping.
- .9 Allow grout to cure for 48 hours.
- .10 Resurface using No. 120 grit abrasive blocks and plenty of water.
- .11 Remove grout residue, scrub terrazzo with clean water and dry. Dry thoroughly with vacuum cleaner.
- .12 Apply first application of sealer immediately, in accordance with manufacturer's instructions, wipe off excess sealer before it dries.
- .13 Apply second application of sealer prior to completion of project, in same manner as first coat. Clean terrazzo as previously specified.
- .14 Apply two coats of surface finish.

3.4 NON-SLIP TERRAZZO TOPPING

- .1 Install non-slip terrazzo in the following areas:
- .2 Mix abrasive chips integrally through topping in proportion 1 part abrasive chips to 2 parts marble chips.
- .3 Immediately following initial rolling, sprinkle abrasive chips so that finished surface contains 20 kg (40 lbs) of non-slip aggregate per 10 sq.m. (100 sq.ft.) of floor area. Apply in two passes, right angle to each other. Lightly roll and trowel into topping.

3.5 TERRAZZO BASES

- .1 Apply underbed consisting of 1 part cement to 4 parts sand and sufficient water to form a stiff mix.
- .2 Install cove base dividers in line with floor dividers.
- .3 Apply terrazzo topping in a similar manner as for floors; omit sprinkling of surface chips and rolling.
- .4 Topping to match floor topping.

3.6 CLEANING

- .1 Upon completion and acceptance of all work of this Section remove from the site all debris tools and equipment of this Trade.

3.7 PROTECTION

- .1 Protect all terrazzo work during period of construction.
- .2 Be responsible for the protection of the work of other trades during and after the installation of the terrazzo work.
- .3 Traffic is prohibited on terrazzo floors for a period of 24 hours after installation. Protect newly ground floors from damage and staining.
- .4 Correct all defects to the satisfaction of the Consultant.
- .5 Protect the finished floor with suitable material, plywood, plastic or by keeping traffic off the floor until the building or area is ready for occupancy.

END OF SECTION

1 GENERAL

1.1 INSTRUCTIONS

- .1 Comply with Instructions to Bidders, the General Conditions of the Contract as amended by the Supplementary Conditions including all Sections outlined in Division 00 – Procurement and Contracting Requirements and Division 01 - General Requirements.
- .2 Report in writing to the General Contractor any defects of surfaces or work prepared by other Sections which affect the quality or dimensions of the Work. Commencement of work implies acceptance of existing conditions and work by others.

1.2 SECTION INCLUDES

- .1 Complete painting of all surfaces noted on drawings, on Room Finish Schedule and as follows:
 - .1 Interior:
 - .1 Gypsum surfaces
 - .2 Metal surfaces - prime painted and galvanized, including but not confined to hollow metal doors and frames, access panels, exposed piping, exposed structure.
 - .3 Masonry surfaces
 - .4 Concrete surfaces

1.3 RELATED SECTIONS

- .1 Section 07 92 00 – Joint Sealants.

1.4 REFERENCES

- .1 CAN/CGSB-1.57-2003: Interior Alkyd Semi-gloss Enamel.
- .2 CAN/CGSB-1.100-99: Interior Flat Latex Paint.
- .3 CAN/CGSB-1.119-2000: Interior Latex Primer-Sealer.
- .4 CAN/CGSB-1.175-97: Polyurethane Interior Coating.
- .5 CAN/CGSB-1.188-2004: Emulsion Filler for Masonry Block.
- .6 CAN/CGSB-1.195-99: Interior Latex Semi-gloss Paint
- .7 CAN/CGSB-1.209-2003: Interior Latex Low Gloss Paint.
- .8 Environmental Choice Program ECP 07.89: Water-borne Surface Coatings.
- .9 Environmental Choice Program ECP 02.89: Solvent-borne Paints.
- .10 Master Painters Institute: Architectural Painting Specification Manual.
- .11 Steel Structures Painting Council.
- .12 C.P.C.A. – Canadian Painting Contractors Association – Painting Manual.
- .13 G.G.S.B. – Standard for Paint.

1.5 SAMPLES

- .1 Submit brush-outs 150 mm x 150 mm of each paint application, labelled as to product and location.
- .2 Proceed with painting and staining mock-up only when colour and finish has been approved.

1.6 QUALITY ASSURANCE

- .1 Employ fully trained workmen who are regularly employed in this field.
- .2 Comply with VOC limits set out by Green Seal Organization for all non-alkyd and non-epoxy coatings/paints.

1.7 REJECTIONS

- .1 Defective materials or quality of work, whenever found, at any time prior to acceptance of the work, shall be rejected regardless of previous inspection. Inspection will not relieve responsibility but is a precaution against oversight or errors.
- .2 Remove and replace defective materials and work of others affected by this replacement, at no additional cost to the Owner.

1.8 DELIVERY, STORAGE AND HANDLING

- .1 Refer to Section 01 61 00.
- .2 Bring materials to the site in the original unopened containers labelled to indicate the name of the manufacturer, brand, colour and quality of the contents.
- .3 Store thinners, loose soaked rags and similar combustible materials in closed containers. Remove from site or store in an assigned area.
- .4 Store paint materials at temperatures recommended by manufacturer.

1.9 PROJECT CONDITIONS

- .1 Cooperate in coordinating the work of other Sections with the work of this Section, so that the work may proceed in an orderly and effective manner.
- .2 If requested, provide proof of purchase of all paint materials needed for the job.

1.10 ENVIRONMENTAL CONDITIONS

- .1 Maintain minimum interior temperature of 18 degrees C during application and drying of paint and maintain until handover to Owner.
- .2 Do not paint when ambient air and surface temperatures are less than 15 degrees C for 24 hours before or during painting application.
- .3 Test for moisture content in each location immediately before commencing application of paint. Do not apply paint on surfaces where moisture content exceeds 14%. Promptly notify Consultant if such conditions exist.

1.11 SCHEDULING

- .1 Unoccupied Areas: Cooperate with other trades to minimize touch-ups, but to ensure completion prior to installation of floor coverings and furniture.
- .2 Occupied Buildings: Schedule painting to prevent disruption to occupants. Painting shall be carried out as arranged/agreed with Owner.

1.12 EXTRA MATERIALS

- .1 Supply one (1) litre of each finish material in each colour used at the Place of the Work, properly labelled.

1.13 TEST AREA

- .1 A room or area in the building will be designated by the Architect as a test area to establish standard or workmanship, texture, gloss and coverage.
- .2 Prior to any painting being started, request a meeting on Site between Architect, Contractor, Sub-contractor, to review conditions, surfaces, anticipated problems and to clarify quality of workmanship acceptable to Architect. Minutes are to be documented by the Contractor and distributed to all parties at the meeting.
- .3 Apply finishes to each type of surface within room with correct material, coats, colour, texture and degree of gloss in sample area and have same approved prior to providing Work of this Section. On concrete block walls complete one wall with block filler only, one wall with block filler and one finish coat, one wall with block filler and two finish coats.
- .4 Clearly mark area as the test area. Retain test area until after completion of Work. Test area to be minimum standard for the Work.
- .5 Failure to comply with the above will be cause for the Architect to request all Work previously painted to be repainted.

2 PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS AND PRODUCT

- .1 Paints, stains and varnish:
 - .1 General Paint
 - .2 Benjamin Moore
 - .3 Sherwin-Williams
 - .4 Zinsser
 - .5 Glidden
- .2 Water-based Epoxy:
 - .1 Sherwin-Williams B70W00211 Water-based Catalyzed Epoxy Extra White/Tint base
A/B60V00025-Water-based Catalyzed Epoxy Egg Shell or Semi-Gloss Hardener Part B

- .2 Glidden – 4420 - True Glaze Water born Epoxy / 4426 True Glaze Egg Shell or Semi-Gloss Converter
- .3 Latex Super Adherent Primer:
 - .1 General Paint 51-050 Premium Latex Plastic Primer
 - .2 Benjamin Moore #23-00 Freshstart Acrylic Primer Sealer
 - .3 Zinsser 1-2-3 Acrylic Primer Sealer
 - .4 Sherwin-Williams – B51WQ8850 – Adhesion Primer
 - .5 Glidden Latex Super Undercoat 94280
- .4 Interior Latex Block Filler:
 - .1 Glidden # 36250 Concrete Block Filler
 - .2 Sherwin-Williams B42W00046 Heavy Duty Block Filler
 - .3 General Paint 70-224 Premium Latex Block Filler
 - .4 Benjamin Moore #595-01 Latex Block Filler
- .5 Stain Suppressant Sealer/Primer Hi-Hide:
 - .1 General Paint, 60-200 X-Terminator 2 Later Sealer
 - .2 Zinsser BIN Primer, hi-hide (spot priming only)
 - .3 Sherwin-Williams B49WQ8820 Multipur LTX Primer
 - .4 Glidden Jammer 200
- .6 Rust Inhibiting Metal Primer:
 - .1 Sherwin-Williams B66-310 Pro-Cryl Universal Primer
 - .2 Devoe Coatings, Devflex 4020PF Direct to Metal Primer
- .7 Dry Fall:
 - .1 Benjamin Moore and Co. Ltd. #597-01 Sweep-Up Spray Latex Flat
 - .2 Glidden #10120 Spraymaster Latex Eggshell
 - .3 Sherwin-Williams B42W2 Waterborne Acrylic Dry Fall, Eggshell

2.2 MATERIALS

- .1 Colours shall be those selected by the Architect as per finish plan. All primers and undercoats may be tinted to no more than 25% of the intensity of the finish colour. Where deep/intense colours are specified, only colours from the nearest factory premixed colour selection shall be altered to match those specified. The application of Clear Base Deep Tints in either Primer or Finish is not acceptable.

- .2 All primer and paint must be delivered to the job site in manufacturer's original containers.
- .3 All materials used in this painting contract are to be applied according to product label directions and in accordance with information stated on the Products Data Specification sheet.
- .4 Unless otherwise indicated two coats of the specified finish paint are required.
- .5 Any work not conforming to the specification, or not meeting with the approval of the Architect, shall be removed, or corrected and or/repainted.

3 EXECUTION

3.1 INSPECTION

- .1 Verify that all surfaces and substrate conditions are ready to receive work, as per the instructions of the product manufacturer.
- .2 Minimum application temperatures for latex paints:
 - .1 Interior 7°C; Exterior 10°C.
- .3 Beginning of installation means acceptance of site conditions.

3.2 PREPARATION

- .1 The painting contractor shall be wholly responsible for the quality of his work, and is not to commence any part of it until surface is in proper condition.
- .2 If the painting contractor considers any surface unsuitable for proper finishing, he is to notify the Architect of this fact in writing. He is not to apply any material until corrective measures have been taken or they have instructed him to proceed.
- .3 All surfaces are to be clean, dry, and free from contaminates such as, but not limited to oil, grease, or dust. If for any reason the surface cannot be cleaned, this condition shall be reported to the Architect promptly.
- .4 If the painting contractor has been instructed by the Architect to begin painting under conditions and circumstances he believes could result in poor performance and early failure of the coatings, he shall request an order to proceed in writing. The first coat of primer or finish should be applied soon after surface has been cleaned properly to prevent contamination of the substrate.
- .5 All manufacturers' directions must be followed regarding surface and product preparation. Product failure due to non-compliance and any indicated corrective measures shall be the Contractor's responsibility. Surface irregularities and blemishes shall be repaired with materials which match strength, and texture of surrounding surfaces.
- .6 Walls and Ceilings: Preparation shall consist of a strong solution of tri-sodium phosphate and water, followed by a clear water rinse.

- .7 Metal surfaces: Such as but not limited to; hollow metal doors and frames, ducts, metal roof decks. Solvent wash to remove protective oil films consistent with SSPC -SP1. All surfaces must be free of grease, oil, mildew, dirt and shall be cleaned in accordance with SSPC-SP1 Solvent cleaning. This method employs the use of emulsifiers or solvents to remove surface contaminants such as oil, grease, soil, cutting compounds, etc. Thoroughly scrub entire surface with solvent. Replace cleaning rags frequently to avoid spreading the surface contaminants around. Repeat process at least once. Use clean rags for final cleaning. Use this cleaning standard as a first step prior to any abrasive blasting standards.
- .8 Wooden surfaces: All surfaces must be free of grease, oil, wax, and dust. Use solvents to remove surface contaminants. Thoroughly scrub entire surface with solvent using steel wool or Scotch Brite pads. Replace cleaning rags frequently to avoid spreading the surface contaminants around. Repeat the process at least once. Use clean rags for final cleaning.
- .9 Walls and Ceilings: Loose or flaking paint must be removed, and feather edge sanded to produce a smooth uniform surface. Any defects should be filled with an appropriate patching compound. Bare surfaces or patch compound must be primed with specified primer. High gloss painted surfaces must be dulled with sandpaper especially those that are high gloss alkyd or urethane. Surfaces to receive paint must be finished to a level 5 finish.
- .10 Metal Surfaces: Such as, but not limited to previously painted hollow metal doors and frames, ducts, metal roof decks. Remove loose mill scale, non-adherent rust, scaling paint, and other foreign matter consistent with SSPC-SP2 by employing the use of scrapers, sandpaper, wire brushes, or hand impact tools. Bare surfaces must be primed with specified primer. High gloss painted surfaces must be dulled with sandpaper especially those that are high gloss alkyd or urethane.
- .11 Wooden Surfaces: All surfaces shall be free of loose or failing paint or clear coatings. Sand using 100 grit sand paper with the grain or employ a paint scraper in a manner consistent with removing the coating only so as to not damage the surface of the wood. Paint stripper may be employed taking care not to contact and damage adjacent surfaces. Sand surface to a final smoothness with the grain using 220 grit sandpaper wipe surface with a clean tack cloth to remove sanding dust. Spot prime any bare wood areas with the appropriate primer or clear coating.
- .12 Prepare surfaces in accordance with covering manufacturer's instructions.

3.3 APPLICATION

- .1 Perform mandatory surface cleaning and preparation prior to commencing this section.
- .2 Application of primers and finishes shall be by brush, roller, spray, or a combination of those methods.
- .3 On each designated substrate, apply in compliance with this specification, only the approved products or product combinations.
- .4 Concrete Block – Previously Painted:
 - .1 Latex super adherent primer: one coat
 - .2 Water based catalyzed epoxy semi-gloss: two coats
- .5 Drywall Board
 - .1 Latex super adherent primer: one coat
 - .2 Water based catalyzed epoxy egg-shell or semi-gloss: two coats

- .3 Ceilings are to receive egg-shell finish
- .6 Hollow Metal Doors/Frames
 - .1 Sherwin-Williams Pro-Cryl Universal Primer: one coat
 - .2 Water based catalyzed epoxy semi-gloss: two coats
- .7 Apply products in accordance with manufacturer's instructions.
- .8 Sand lightly between coats to achieve required finish.
- .9 Do not apply finishes to surfaces that are not dry.
- .10 Where clear finishes are required, tint fillers to match wood. Work fillers into the grain before set. Wipe excess from surfaces.
- .11 Finishes and number of coats specified in the schedule are intended to cover surfaces perfectly. If they do not, apply further coats until perfect coverage and colour are achieved as required.
- .12 Dark colours will require multiple coats to full saturation and coverage. Acceptance will be confirmed by Consultant.
- .13 Any areas exhibiting incomplete or unsatisfactory coverage shall have the entire plane painted. Patching will not be acceptable.
- .14 Walls needing repainting, entire wall/plane shall be painted to the satisfaction of the Architect.
- .15 Primer and subsequent top coats are to be products from same manufacturer unless otherwise stated in this specification.
- .16 Concrete Block: Block filler is to be applied at the minimum rate of 80 sq ft per gallon (1.63 m² per litre), or as required by block texture to completely fill block. **Pinholes will not be accepted.** Apply more block filler if necessary to completely fill the block before applying finish coats. Note that lightweight block requires more block filler to fill than standard weight block does and adjust application rate as required.
- .17 Paint gas piping on exterior of building.
- .18 Paint all exposed piping within school.
- .19 Paint all exposed structural steel.

3.4 PROTECTION

- .1 Protection (drop sheets, tarps, plywood decking and masking) for surfaces not being painted under this Specification shall be supplied and kept in place during the project. It will be the Contractor's responsibility to repair any and or all damaged surfaces.
- .2 Wall mounted electrical fixture face plates, such as but not limited to; receptacles, switch boxes, cover plates, etc. are to be removed before painting and are to be replaced at completion of painting.
- .3 Upon completion of a room or area, it shall be left in a clean and orderly condition and all paint splatters, contaminated rags and trash shall be removed.

- .4 Upon completion of the job, the Painting Contractor is to remove all surplus materials and scaffolds that relate to his trade from the premises.
- .5 It will be the Contractor's responsibility to ensure the rooms being painted have adequate fresh air for safe occupancy by workers.

3.5 CLEANING

- .1 As work proceeds, promptly remove paint where spilled, splashed or spattered.

END OF SECTION

1 GENERAL

1.1 INSTRUCTIONS

- .1 Comply with the Instructions to Bidders, the General Conditions of the Contract, the Supplementary Conditions and the General Requirements of Division 1.
- .2 Report in writing to the General Contractor any defects of surfaces or work prepared by other Sections which affect the quality or dimensions of the Work. Commencement of work implies acceptance of existing conditions and work by others.

1.2 INTENT

- .1 The following prefabricated items to be supplied and installed:
 - .1 Grab Bars
 - .2 Utility Shelf
 - .3 Backrests
 - .4 Mirrors
 - .5 Medicine Cabinet, as shown on drawings.
- .2 The following items to be supplied by the Waterloo Region District School Board and installed by Section 06 20 00.
 - .1 Paper towel dispensers.
 - .2 Soap dispensers.
 - .3 Toilet tissue dispenser.
- .3 Approved Manufacturers: The manufacturers listed are only approved if they can provide the product as described.

1.3 SUBMITTALS

- .1 Shop Drawings
 - .1 Submit shop drawings as specified in Section 01 33 00, specifically provide the following:
 - (1) grab bars,

1.4 REJECTIONS

- .1 Defective materials or quality of work, whenever found, at any time prior to acceptance of the work, shall be rejected regardless of previous inspection. Inspection will not relieve responsibility, but is a precaution against oversight or errors.
- .2 Remove and replace defective materials and work of other trades affected by this replacement, at no additional cost to the Owner.

1.5 DELIVERY, STORAGE AND HANDLING

- .1 Refer to Section 01 61 00.
- .2 Deliver and store materials undamaged in original cartons or wrappings.
- .3 Store material in a secure, dry area.

1.6 WARRANTY

- .1 Contractor shall guarantee the installation and materials against defective material and workmanship for a period of two (2) years from the date of Substantial Completion.
- .2 Warrant mirrors for a minimum of 5 years against silver deterioration.

2 PRODUCTS

2.1 MATERIALS

- .1 Provide new materials in perfect condition, free from defects impairing strength, durability or appearance.
- .2 Refer to the Architectural plans for location and required quantity of items specified.

2.2 GRAB BARS AT BARRIER FREE WASHROOMS

- .1 No. 1: 1¼ in. diameter stainless steel, 24 in. long straight bar, standard flange position at back of water closet.
- .2 No. 2: L-shaped bar as detailed 1¼ in. diameter stainless steel, 30 in. long horizontal and vertical 30 in. at side of water closet.
- .3 NOTE: Install No. 1 and No. 2 grab bars at each barrier free water closet.
- .4 Fold-down grab bars: refer to drawings
- .5 NOTE: Grab bars to be 18 gauge stainless steel tubing with Mandrel bends. Knurled grab bars to be peened grip full length of the tubing to within 4 in. of ends of bends. Secure concealed fastening grab bars with 2½ in. No. 14 screws to solid backing, capable of supporting a 500 lb pull. All accessories must comply with "Building Standards for the Handicapped 1997" of the Ontario Building Code as currently amended.
- .6 Approved Manufacturers:
 - .1 ASI-Waterous
 - .2 Bobrick
 - .3 Frost

2.3 UTILITY SHELF

- .1 Supply and install one(1) stainless steel shelf projecting not more than 100mm from finished wall, mounted not more than 1100mm above finished floors.

2.4 BACKREST AT UNIVERAL WASHROOMS

- .1 Grab bar shall be Type-304 stainless steel with satin finish. Grab bar shall have 18-gauge 1.2mm (18-gauge) wall thickness and 30mm (1-1/4") outside diameter. Clearance between the grab bar and wall shall be 210mm (8-1/4"). Concealed mounting flanges shall be 3mm (11-gauge) stainless steel plate, 50 x 80mm (2" x 3-1/8") and equipped with six screw holes for attachment to wall. Flange covers shall be 0.8mm (22-gauge) stainless steel, 85mm (3-1/4") diameter, and shall snap over mounting flanges to conceal mounting screws. Ends of grab bar shall pass through concealed mounting flanges and be heliarc welded to form one structural unit. Grab bar shall be equipped with a 360 x 160 x 40mm (14-1/4" x 6-3/8" x 1-5/8") white polyurethane integral foam backrest.
- .2 Mounting: vertically as shown on Drawings.
- .3 Acceptable Manufacturers and models:
 - .1 Bobrick, Model B-5892
 - .2 Equivalentents by Frost or ASI Watrous

2.5 HOOK

- .1 Stainless steel utility hook, Model RH2112016 by Richelieu.

2.6 SANITARY NAPKIN DISPOSAL

- .1 Surface mounted disposal, brushed stainless steel. Pivoting self closing lid. French/English napkin disposal label is embossed on lid.
- .2 Acceptable product and manufacturer:
 - .1 Surface Mounted Sanitary Napkin Disposal – Stainless – 622 by Frost.

2.7 MIRRORS

- .1 Mirrors: 6 mm type 18 tempered glass Blue label, to ISO 25537:2008; c/w galvanized steel back; as follows:
 - .1 Over Lavatories: 457 mm x 610 mm (18" x 24") over each lavatory, stainless steel frame with concealed wall hangers.
 - .2 Over Vanities: 914 mm (36") high by full width of vanities, polished edges with tamperproof fasteners.

3 EXECUTION

3.1 EXAMINATIONS

- .1 Report to the Consultant, in writing, all defects of work prepared by other trades and on unsatisfactory site conditions.
- .2 Do not commence the work of this Division until surfaces, area, conditions specified or indicated on drawings, to receive manufactured specialties, are compatible with the manufacturer's installation requirements.
- .3 Commencement of work implies total acceptance of all preliminary installation requirements by the Contractor installing manufactured specialty items.

- .4 Waive any after claims by failure to comply with the above procedure of examination.

3.2 INSTALLATION

- .1 Carry out installation of manufactured specialty items by tradesmen with the necessary training and experience, and certified by the manufacturer or by the Contractor.
- .2 Conform to manufacturer's printed installation instructions and/or shop drawings.

3.3 CLEANING AND PROTECTION

- .1 Be responsible for protection of all manufactured specialty work during period of construction.
- .2 Upon completion of installation of all manufactured specialty items remove all excess material, empty cartons, wrappings, etc. and remove any dirt spots and foreign material from the installed items, leaving them in a clean, usable condition.

3.4 CLEAN-UP

- .1 Upon the completion of work, remove from the site all surplus materials and debris caused by this work and leave the site in a clean condition to the satisfaction of the Consultant.

END OF SECTION

24-7544-RFT - Kitchener Collegiate Institute Universal Washroom

Opening Date: March 21, 2024 12:00 PM

Closing Date: April 11, 2024 2:00 PM

Schedule of Prices

* Denotes a "MANDATORY" field

Do not enter \$0.00 dollars unless you are providing the line item at zero dollars to the Board.

Bid Price Form

The amounts stipulated on the Bid Price Form(s) are intended to cover the cost of the complete Work as described in this Procurement and must remain fixed and firm for the term of the Contract unless otherwise specified in this Procurement.

All prices shall be in Canadian Funds, Free On Board (FOB) Destination, and Freight Prepaid (Board locations). and shall be exclusive of Harmonized Sales Tax (HST) but shall include all materials, labour, equipment, disbursements, expenses, insurance, bonding, customs charges, freight, shipping and handling costs, travel costs and all other charges of every kind attributable to the Work and Services provided.

Bid Price includes Cash Allowance

Line Item	Description	Unit of Measure	Quantity	Bid Price *	Total
1	Kitchener Collegiate Institute Universal Washroom as per scope of work	Lump Sum	1		
Subtotal:					

Summary Table

Bid Form	Amount
Bid Price Form	
HST (13%)	\$ 0.00
Total Contract Amount:	

Bid Questions

Bill S-211 - This enactment enacts the Fighting Against Forced Labour and Child Labour in Supply Chains Act, which imposes an obligation on certain government institutions entities to ensure measures are taken to prevent and reduce the risk that forced labour or child labour is used by suppliers or in their supply chains. The Board principles align with Bill S-211. Please confirm that your organization will comply with this Act. YES or NO. If no, please explain.

The Board will require General Contractors on the approved Roster List to have their IHSA - Certificate of Recognition (COR®) by January 2026. Although not mandatory for this bid opportunity, the Board requests bidders to respond to the question below YES or NO. By responding NO, you acknowledge the deadline requirement above. Does your company have a current IHSA - Certificate of Recognition (COR®)? - YES or NO

Specifications

Bidder's Contact Information

A Site Supervisor and Project Manager, assigned to manage and supervise the Work, must be named in this form. Personnel will be subject to approval by the Board and cannot be changed without prior written approval from the Board.

A dedicated Site Supervisor is required full-time for this project. If your company is awarded more than one project/contract, a different Site Supervisor is required for each project. In the event of this situation, you have the option to name and include a resume for an alternative Site Supervisor at this time.

If providing an alternative Site Supervisor with your submission, it is understood, that the alternative Site Supervisor will only be reviewed if the first Site Supervisor has already been accepted and working on another WRDSB project.

Note: resumes are required to be uploaded in the document section. Optional for alternative Site Supervisor

Title	Name *	E-mail *	Cell Phone Number *	
Project Manager				*
Site Supervisor				*
Optional - Alternative Site Supervisor in the event the Site Supervisor listed above is assigned to another WRDSB Project.				

Documents

It is your responsibility to ensure the uploaded file(s) is/are not defective or corrupted and are able to be opened and viewed by the Owner. If the attached file(s) cannot be opened or viewed, your Bid Submission may be rejected.

Upload a resume for each person named in the Specification section.

- Project Manager - Resume * (mandatory)
- Site Supervisor - Resume * (mandatory)
- Optional - Alternative Site Supervisor - Resume (only if Site Supervisor #1 is assigned to another WRDSB project prior to this award) (optional)

BONDING UPLOAD SECTION

Refer to the Bonding Requirements Section of the Terms and Conditions.

Bonding is required if the project is equal to or greater than \$200,000.00. Note: The Bidding System has flagged these fields as mandatory. If your bid is less than \$200,000.00, please upload a pdf document stating: Not Applicable.

Bidders shall upload their electronically verifiable and enforceable (e-Bond) format for Bid Deposit Bond and Agreement to Bond separately in this section. If both Bonds are in the same pdf file, please upload it in both fields and indicate one is a "duplicate"

The date on the Bonds must be the Closing Date

Tender # and Project Title must be included on the Bonds

- Bid Deposit Bond * (mandatory)
- Agreement to Bond * (mandatory)

Addenda, Terms and Conditions

I/We have read and understand this Bid Solicitation document, and agree to perform the Work required in accordance with this Bid

Solicitation document, including all addenda, at the price(s) detailed in the Bid.

I/We confirm that:

1. The person named in this Bid is authorized to sign and electronically submit this Bid through the Bidding System.
2. I/We meet all mandatory requirements of the Bid Solicitation document.
3. The bid will remain open for a specified acceptance period after the Closing Time. The Board may, at any time within this period, accept the Bid whether or not any other Bid has previously been accepted.
4. All prices provided in the Bid will remain fixed and firm for the duration of the term of the agreement, unless specified otherwise.
5. All prices provided in my/our Bid are in Canadian funds and include all charges of every kind attributable to the Work. Harmonized Sales Tax will be extra and not shown, unless specified otherwise.
6. To the best of my/our knowledge and belief:
 - a) the information provided in the Bid is correct; and
 - b) the Bid is made without any comparison of figures or arrangement with any other individual, corporation or person submitting a Bid for the same Work and is in all respects fair and without collusion or fraud.
7. I/We comply with the all applicable Board policies, provincial, and federal laws, and are aware of the Board's "Principles of Business Conduct" and will comply.
8. I/We agree and understand that the recommendation to award the Work may be subject to the approval from the Board as well as availability of funds.
9. I/We agree to be bound by the terms and conditions of the Bid Solicitation document and submit this Bid on behalf of the Bidder.

I have the authority to bind the Bidder.

The Bidder/Proponent is to declare any actual, potential or perceived conflict of interest that could arise from submitting the Bid/Proposal.

Do you have a potential conflict of interest?

Yes No

The Bidder acknowledges and agrees that the addendum/addenda below form part of the Bid Solicitation Document.

Please check the box in the column "**I have reviewed this addendum**" below to acknowledge each of the addenda.

File Name

**I have reviewed the
below addendum and
attachments (if
applicable)**

Pages

There have not been any addenda issued for this bid.