

CONNAUGHT BUILDING
EXTERIOR INVESTIGATIONS

ÉDIFICE CONNAUGHT
INVESTIGATIONS EXTÉRIEURES

PUBLIC SERVICES AND PROCUREMENT CANADA
SERVICES PUBLICS ET APPROVISIONNEMENT CANADA

Project N° / N° de projet
R.076864.236

SPECIFICATION (ENGLISH)

ISSUED FOR 100% SUBMISSION

September 24, 2020

PART 1 GENERAL

1.01 SEALS



PART 2 PRODUCTS

2.01 NOT USED

.1 Not used

PART 3 EXECUTION

3.01 NOT USED

.1 Not used.

END OF SECTION

Number Title

No. of pages

SPECIFICATIONS

DIVISION 01 GENERAL REQUIREMENTS

00 01 07	SEALS PAGE	2
00 01 10	TABLE OF CONTENTS	1
01 00 10	GENERAL INSTRUCTIONS	6
01 01 10	SECURITY REQUIREMENTS.....	2
01 14 00	WORK RESTRICTIONS.....	3
01 14 25	DESIGNATED SUBSTANCES	4
01 33 00	SUBMITTAL PROCEDURES.....	4
01 35 29.06	HEALTH AND SAFETY REQUIREMENTS	6
01 45 00	QUALITY CONTROL	3
01 54 00	VERTICAL ACCESS.....	4
01 56 00	TEMPORARY BARRIERS AND ENCLOSURES.....	3

DIVISION 04 MASONRY

04 03 00	MASONRY EXPLORATORY OPENINGS.....	7
----------	-----------------------------------	---

APPENDIX A

PSPC CMS Construction Site COVID-19 Protocols.....	2
--	---

DRAWINGS

A000- COVER & DRAWING LIST

A001- BUILDING & SITE PHOTOGRAPHS

A010- SITE PLAN

A200- EAST ELEVATION SUSSEX DRIVE

A201- WEST ELEVATION MACKENZIE AVENUE

A202- NORTH ELEVATION

A203- SOUTH ELEVATION

A500- DETAIL SL-01

A501- DETAIL SL-02

A502- DETAIL PT-01

A503- DETAIL PT-02

A504- DETAIL PT-03

A505- DETAIL B/S/-W5-1

A506- DETAIL B/S/-W4-5

A507- DETAIL B/H/S/-W4-4

A508- DETAIL B/H/M/S/W/-W4-6

A509- DETAIL S-W1-4

A510- PARAPET & ROOF PHOTOS

PART 1 GENERAL

1.01 INQUIRIES

- .1 Inquiries related to starting date, schedule, security passes, building access, storage, and other related components, shall be conducted through the Departmental Representative:
 - .1 Name: Glenn Gervais
 - .2 Address: 1010 Somerset West, 2nd Fl., Ottawa ON, K1A 0K9
 - .3 Telephone number: 613-913-5270
 - .4 Facsimile number: 613-946-6321
 - .5 E-mail: Glenn.Gervais@pwgsc-tpsgc.gc.ca

1.02 PHASING

- .1 Commence Work in accordance with notification of acceptance and complete Work within approved schedule. Work is divided into two (2) seasonal phases, Fall 2020 and Spring 2021.
 - .1 Phase 1 Fall 2020: Non-destructive investigations of the masonry façade.
 - .2 Phase 2 Spring 2021: Invasive investigations of masonry elements.
- .2 Provide all necessary plant, materials, tools, and equipment and carry out Work in a careful and workmanlike manner and to satisfaction of Departmental Representative.
- .3 Mobilisation and demobilisation will be required at each phase.

1.03 DEFINITIONS AND RESPONSIBILITIES

- .1 Definitions :
 - .1 "Site Supervisor" means the employee or representative of the Contractor designated by the Contract that must be present on site when Work is being done and available at all times for the project duration.
 - .2 "Competent Person" identifies a person with knowledge, training and expertise organizing Work and its performance, a person familiar with acts and regulations that apply to Work, and a person with knowledge of any potential or actual danger to Health and Safety in the workplace.
 - .3 "Working Alone" means the performance of any function by an employee who is the only employee in the workplace at any given time or an employee who is not within the range of sight, or within the hearing distance of another employee for more than five minutes at a time.
 - .4 "Occupants" identifies the personnel employed by Canada Revenue Agency (CRA) working in the project building, whose offices comprise all user spaces within the project building.
 - .5 "Regular Business Hours" identifies Work performed between Monday and Friday from 6:00 to 18:00 hours.
 - .6 "Off-Hours" identifies Work performed between Monday and Friday from 18:00 to 6:00 hours, during weekends and statutory holidays.

- .7 "Non-Destructive Evaluations (NDE)" identifies evaluations performed by the Departmental Representative using scanning and x-ray hand held and pole mounted devices. All NDE are performed within identified AREAS.
- .8 "AREA(S)" identifies Work zones designated for NDE. Location and size of each AREA are indicated in the drawings.
- .9 "OPENING(S)" identifies Work zones of localized masonry stone removal for investigative purposes. Location and size of each OPENING are indicated in the drawings.
- .10 "Electronic Copy" identifies electronic documents in PDF format to be submitted to the Departmental Representative for review.
- .2 Special Requirements :
 - .1 On award of contract submit Gantt bar chart Work schedule, indicating anticipated Work and progress stages within time of completion. When Work schedule has been reviewed by Departmental Representative, take necessary measures to complete Work within scheduled time. Do not modify Work schedule without notifying Departmental Representative.
 - .2 Ensure Contractor's personnel employed on site become familiar with, respect, and obey regulations including safety, fire, traffic, and security.
 - .3 Ensure Contractor's personnel employed on site become familiar with, respect, and obey the requirements related to the building's occupancy to prevent interruption or interference with normal use of premises.
- .3 Subcontracting:
 - .1 Neither the whole nor any part of the Work may be subcontracted by the Contractor without the written consent of Departmental Representative.
 - .2 The Contractor shall notify Departmental Representative in writing of Contractor's intention to subcontract.
 - .3 The Contractor shall notify Departmental Representative in writing identifying the part of Work, and the Subcontractor with whom it is intended to subcontract.
 - .4 If Departmental Representative objects to a subcontracting pursuant, the Contractor shall not enter into the intended subcontracting.
 - .5 Neither a Subcontractor nor the Departmental Representative's consent to a Subcontractor employed by the Contractor shall be construed to relieve the Contractor from any obligation under the Contract or to impose any liability upon the Government of Canada.
 - .6 Should the Departmental Representative consent to Subcontractor, all submittal requirements in this Contract shall apply. Submittals shall be made for review by Departmental Representative prior to Subcontractor being permitted to enter construction site.

1.04 PHASING AND COORDINATION

- .1 Plan Work to ensure continuous use of premises during each Phase of Work and to provide access to Departmental Representative to perform NDE and OPENING reviews.

- .1 Provide Departmental Representative digital photographs of surrounding properties, objects and structures liable to be damaged or be the subject of subsequent claims in accordance to Section 01 33 00 – Submittal Procedures.
- .2 Coordinate with Departmental Representative to collect mortar samples at each identified OPENINGS. Departmental Representative to issue DSR to Contractor prior to proceeding with OPENINGS. Refer to Section 01 14 25 - Designated Substance and Section 04 03 00 - Masonry Exploratory Openings.
- .3 Departmental Representative to confirm in writing exact locations of each OPENING subsequent to NDE investigations.
- .4 Departmental Representative to review OPENINGS. Allow one (1) full day for review and documentation of OPENINGS in each AREA. Departmental Representative may give instructions for additional masonry material removal based on findings. OPENING sizes shall not exceed sizes identified in Contract.
- .5 Perform additional masonry material removal where and as directed by the Departmental Representative.
- .6 Departmental Representative to perform final review of OPENINGS. Allow one (1) full day for review and documentation of OPENINGS in each AREA.

1.05 MINIMUM STANDARDS

- .1 Materials shall be new and work shall conform to the minimum applicable standards of the Canadian General Standards Board, the Canadian Standards Association, the National Building Code of Canada 2015 (NBC), the National Fire Code 2015 (NFC) and all applicable federal, provincial and municipal codes, laws and by-laws, and to all standards mentioned herein.
- .2 Approval of alternate materials must be given in writing by the Departmental Representative prior to tender closing date.

1.06 MEASUREMENTS

- .1 Measurements, sizes, exact count, and dimension are the responsibility of the Contractor. Verify all drawings, measurements and detentions or omissions before commencing the work.
- .2 Verify all conditions and dimensions prior to fabrication and construction.
- .3 Notify the Departmental Representative of any discrepancies or divergences from the drawings before proceeding.

1.07 QUALITY ASSURANCE

- .1 The Connaught Building is classified Heritage Building. Work must be managed, sequenced, planned, and executed in order to preserve the building's heritage value.
 - .2 Carry out work by a Contractor who holds a valid license issued by the Province in which the work is being contracted.
-

- .3 Appoint a Site Supervisor who is an employee of the Contractor to be present on site when Work is being done and available at all times for the duration of the project.
- .4 Carry out Work using qualified licensed workers or apprentices in accordance with Provincial Act respecting manpower vocational training and qualification.
- .5 Permit employees registered in Provincial apprenticeship program to perform specific tasks only if under direct supervision of qualified licensed workers.
- .6 Determine permitted activities and tasks by apprentices, based on level of training attended and demonstration of ability to perform specific duties.

1.08 WORK ZONE LOCATIONS AND IDENTIFICATION

- .1 Be responsible and assume the role of Contractor as described in the Ontario Occupational Health and Safety act and regulations for construction projects.

1.09 SALVAGED MATERIALS

- .1 Masonry units indicated for salvage/reinstatement are to be temporarily stored on site in lay-down location to the satisfaction and approval of Departmental Representative.

1.10 WASTE MANAGEMENT AND DISPOSAL

- .1 Unless otherwise specified, materials for removal become the Contractor's property and shall be taken from site.
- .2 Immediately take removed materials from site. Leave no build-up of removed materials on site, unless indicated for reinstatement.
- .3 Comply with Environmental Protection Act, Ontario Regulation O.Reg. 102/94 and O.Reg. 103/94 for waste management program on construction and demolition projects.
- .4 Garbage and recycling are to be removed from site at the completion of each work day.
- .5 Remove from site and dispose of packaging materials at appropriate recycling facilities.
- .6 Collect and separate paper, plastic, polystyrene, corrugated cardboard packaging material, and pallets for recycling.
- .7 Unused metal is to be diverted from landfill to a metal recycling facility as approved by Departmental Representative.
- .8 Unused or damaged masonry materials must be diverted from landfill to a local facility as approved by Departmental Representative.

1.11 CLEAN UP

- .1 Clean up work areas as Work progresses. At the end of each work period, and more often as per O. Reg. 213/91, s. 35 (1) or if ordered by the Departmental Representative, remove debris from site, neatly stack material for use, and clean up generally.
- .2 Clean areas under Contract to a condition at least equal to that previously existing and to Departmental Representative's approval.

- .3 Clean adjacent roadways, sidewalks, plazas, gardens, and grounds at the end of every shift, as often as required to prevent a hazard as per regulations and as required by the Departmental Representative.

1.12 SITE STORAGE

- .1 Store materials within the fenced limits of site. Small storage areas shall be equipped and maintained by the Contractor. Materials may be stored on roof such that roof is not overloaded.
- .2 Do not unreasonably encumber site with materials or equipment. Coordinate extents of building site areas with Departmental Representative.
- .3 Move stored products or equipment which interferes with all operations of the occupied building and site, including vehicular traffic.
- .4 Ensure material is tied down and secure to resist wind uplift.
- .5 Obtain and pay for use of additional storage or Work areas needed for operations.

1.13 CUT PATCH AND MAKE GOOD

- .1 Cut existing surfaces as required to accommodate access as required.
- .2 Remove all items so shown or specified.
- .3 Patch and make good surfaces cut, damaged or disturbed, to Departmental Representative's approval. Match existing material, colour, finish and texture.

1.14 DOCUMENTS REQUIRED TO BE AVAILABLE ON SITE

- .1 Maintain at job site, one printed copy of each of the following documents:
 - .1 Construction Drawings.
 - .2 Specifications.
 - .3 Addenda.
 - .4 Reviewed Shop Drawings.
 - .5 List of Outstanding Shop Drawings.
 - .6 Change Orders.
 - .7 Modifications to Contract.
 - .8 Field Test Reports.
 - .9 Approved Work Schedule.
 - .10 Health and Safety Plan and other safety related documents.
 - .11 Other documents as specified.

1.15 GUARANTEES AND WARRANTIES

- .1 Under the Company Letter Head, submit a 12 months guarantee.
 - .2 Upon notice from Departmental Representative, any failures or defects in material or workmanship shall be corrected by the Contractor at no further cost to her Majesty within 12 months of the date of acceptance.
-

- .3 Conduct an inspection of Work and identify deficiencies, defects, and repairs as required to conform to Contract. Notify Departmental Representative in writing of satisfactory completion of inspection of Work.
- .4 The Departmental Representative and Contractor will perform inspection of Work to identify obvious defects and deficiencies. Contractor to correct Work accordingly.
- .5 Submit written certificate that the following actions have been performed:
 - .1 Work has been completed and inspected for compliance with Contract.
 - .2 Defects have been corrected and deficiencies have been completed.
 - .3 Equipment and system have been tested, and are fully operational.
 - .4 Operation of systems has been demonstrated to Departmental Representative.
 - .5 Work is completed and ready for final Inspection.
- .6 Request final inspection of Work to Departmental Representative when items noted above are completed. If work is deemed incomplete by Departmental Representative complete outstanding items and request re-inspection.

PART 2 PRODUCTS

2.01 NOT USED

- .1 Not Used.

PART 3 EXECUTION

3.01 NOT USED

- .1 Not Used.

END OF SECTION

PART 1 GENERAL

1.01 PROCEDURE

- .1 Designate a Security Clearance liaison person to be the principal contact with Departmental Representative. The security liaison person is to maintain a log of personnel with the minimum security status.
- .2 Submit within five (5) business days after contract award a list of all personnel to the Departmental Representative who require access to site for scheduled start of Work. The list shall contain full names, firms they represent, and date of birth. All personnel must have minimum security status of RELIABILITY.
- .3 Continue to submit names of additional personnel who will require access to site.
- .4 The Company Security Officer (CSO) of the Contractor and each Subcontractor shall manage the processing of security applications of their personnel requiring access to the premises.
 - .1 If applicant does not have the required security status, the applicant must complete and submit appropriate security forms, available from: <https://www.canada.ca/en/services/defence/nationalsecurity/screening.html>
 - .1 Fingerprinting.
 - .2 Credit Check.
 - .3 Out-of-Country verifications.
 - .4 Other supporting documents.
 - .2 The review period can vary depending upon the information provided by the applicant and the number of applicants being processed at the time. Allow for a minimum 30 day review period for all properly submitted forms. Within this period each applicant will be informed of their security status and ability to access and work on the site.
- .5 In the case security status is not granted for specific individuals, ensure that replacement personnel are available for the scheduled start of Work.
- .6 Late or failure in obtaining required security status for personnel will have direct impact to schedule and cost to Contractor which will not be reimbursable from the Departmental Representative.

1.02 SECURITY

- .1 The minimum security status to access the Connaught building and construction site is RELIABILITY.
- .2 Request an Authorization for Building Access (ABA) to access building. Personnel must have required security status to access building. Submit names, dates of birth, and company name of personnel and include date, duration, purpose, and exact areas

- (include room numbers) of requested visit. Submit ABA requesting access to Departmental Representative twelve (12) business days prior to requested site visit.
- .3 Personnel must obtain a Contractor's daily security pass from Connaught Building Security Desk Office located at the Connaught Building, 555 Mackenzie Ave, Ottawa, Ontario. Passes must be worn at all times. Passes must be returned at end of work shift and personnel checked out.
- .4 Security escort:
- .1 Personnel employed on this project must be escorted in all areas and at all times when executing Work.
- .2 Escorts are provided by CRA's building security and will be assigned when Contractor's daily security pass is attributed.
- .3 Submit an escort request to Departmental Representative at least ten (10) business days before service is needed. This notice period may increase if more than one escort is required or if there are multiple projects requesting escorts.
- .4 For requests submitted within time noted above, costs of security escort will be paid for by Departmental Representative. Cost incurred by late request will be Contractor's responsibility.
- .5 Any escort request may be cancelled free of charge if notification of cancellation is given at least four (4) hours before scheduled time of escort. Cost incurred by late request will be Contractor's responsibility.
- .6 Calculation of costs will be based on average hourly rate of security officer for minimum of eight (8) hours per day for late service request and of four (4) hours for late cancellations.
- .5 Request an Authorization for Vehicle Access (AVA) for all vehicles requiring access to premises. Submit names of drivers, vehicle make and model, colour, and license plate number of all vehicles to the Departmental Representatives five (5) business days prior to the site access.
- .6 The Departmental Representative will inform the Contractor if the AVA has not been approved no sooner than 48 hours after receipt of the information.

PART 2 PRODUCTS

2.01 NOT USED

- .1 Not Used.

PART 3 EXECUTION

3.01 NOT USED

- .1 Not Used.

END OF SECTION

PART 1 GENERAL

1.01 ACCESS AND EGRESS

- .1 Design, construct and maintain temporary "access to" and "egress from" Work areas, including stairs, runways, ramps or ladders, and scaffolding, independent of finished surfaces and in accordance with relevant municipal, provincial and other regulations.
- .2 All access gates to lay-down, storage, and Work areas are to be kept closed at all times except for movement of materials and personnel.
- .3 Provide temporary access, barriers, and perimeter security fencing in accordance with Section 01 56 00 – Temporary Barriers and Enclosures.

1.02 USE OF SITE AND FACILITIES

- .1 Premises will remain occupied during entire construction period for execution of normal operations.
- .2 Execute work with least possible interference or disturbance to occupied building, and the normal use of premises. Arrange with Departmental Representative to facilitate execution of Work.
- .3 Coordinate use of premises and space allocation with the Departmental Representative. Use of premises for Work, storage and access is limited. Allow for continued occupancy.
- .4 Maintain existing building services and provide for personnel and vehicular access. Services or access interruptions are not expected for Work prescribed in this Contract.
- .5 Departmental Representative will assign sanitary facilities for use by Contractor's personnel. Keep facilities clean.
- .6 A site trailer will not be permitted on site.
- .7 Parking will not be permitted on site. Contractor is responsible for their own parking. The site is in the downtown core and public parking is available nearby.
- .8 Other use of building and building provisions:
 - .1 Departmental Representative will provide for continuous supply of potable water for construction use. Hose bib is located in building parking garage.
 - .2 Departmental Representative will provide and pay for temporary power during construction to maximum supply of 120 volts 15 amps at, single phase. Electrical receptacle is located in parking garage. Connect to existing power supply in accordance with Canadian Electrical Code.
 - .3 Remove all temporary facilities from premises after use.
- .9 Use exterior vertical access provisions for moving workers and material to AREAS and OPENINGS as indicated. Interior access to elevators and stairs is limited to off-hours. Coordinate access with Departmental Representative. Elevators do not go to roof.
 - .1 Provide visual and/or safety protection to existing building as indicated and to approval of Departmental Representative prior to use.
 - .2 Accept liability for damage, safety of equipment and overloading of existing building conditions.

1.03 SPECIAL REQUIREMENTS

- .1 Coordinate extents of Work, and their scheduled duration with Departmental Representative.
- .2 Give Departmental Representative a minimum of five (5) work days' notice to carry out noise, vibration, and odour generating Work. Coordinate with Departmental Representative in scheduling noise and/or vibration and odour incurring operations Off-Hours only to minimize interference or disturbance to Occupants and normal use of premises.
- .3 Ensure Contractor's personnel employed on site become familiar with and obey regulations including safety, fire, traffic and security regulations.
- .4 Keep within limits of work and avenues of ingress and egress.
- .5 Ingress and egress of Contractor vehicles in accordance with Section 01 01 10 – Security Requirements.
- .6 Deliver materials outside of peak traffic hours 18:00 to 06:00 unless otherwise approved by Departmental Representative. Schedule all construction deliveries with Departmental Representative.
- .7 Coordinate location, use, and Off-Hour schedule for movement of equipment to roof using powered vertical access equipment with Departmental Representative.

1.04 WORK SCHEDULING

- .1 Coordinate use of premises with Departmental Representative.
- .2 Execute the work as needed per phase, including but not limited to:
 - .1 Road Diversions.
 - .2 Installation of perimeter security fencing.
 - .3 Installation of vertical access and temporary enclosures.
 - .4 Masonry work.
 - .5 Dismantling of vertical access and temporary barriers and enclosures.
 - .6 Cleaning.
- .3 Schedule Work to accommodate occupant's continuous and normal use of premises during Work. Coordinate with Departmental Representative in scheduling Work to minimize conflict and to facilitate Occupant's usage.
- .4 Schedule Work to provide for continuous public usage. Do not close off public usage of facilities until use of one stage of Work will provide alternate usage.
- .5 Work requiring the obstruction of roads or obstruction of building access/egress must be carried out on weekends, after Friday 21:00 hours to Monday 06:00 hours.
- .6 Work Stoppage: Contractor and Departmental Representative to coordinate and establish communication channel and Contractor procedures for un-planned Work Stoppages. Provide Contact Names, Back-up contacts for Subcontractors for notification purposes in the event that a Work Stoppage needs to be communicated to Contractor.
 - .1 Include in the Tender price for five (5) days of random interruptions of unscheduled work stoppages to accommodate Occupants' normal use of premises. Assume all associated costs and maintain all security operations during Work Stoppages.

- .2 Redirect all personnel on site at time of Work Stoppage to other Work. If no other Work can be found for trained personnel, this will constitute a period of "Stop Work" applicable to the specified allowance.
- .3 The cost must include all labour costs, equipment charges, lost production plus overhead and profit.
- .4 Site must remain secure during all periods of Work Stoppage.
- .5 The delays caused by Work Stoppages will be taken by float in the Schedule.
- .6 Stop Work orders for infraction of Contract or violations of applicable health and safety regulations will not be considered a "Stop Work" period.

1.05 BUILDING SMOKING ENVIRONMENT

- .1 Comply with smoking restrictions. Smoking is not permitted.

1.06 ROADWAY AND PEDESTRIAN TRAFFIC MANAGEMENT PLAN

- .1 Traffic Management Plan and implementation to Site and building and use of all existing roadways and pedestrian paths must be approved by Departmental Representative.
 - .1 Work in Contract must not impede use of occupied building and access to premises.
 - .2 Apply for and acquire all permits and permissions necessary to change roadway and pedestrian traffic
 - .3 Maintain dust control on roadways to ensure safe operation at all times and to approval of Departmental Representative.
- .2 Submit a Traffic Management Plan on a detailed site plan in accordance to Section 01 33 00 – Submittal Procedures to Departmental Representative for review no later than ten (10) days after contract award.
 - .1 Identify vehicle flow and vehicle size where applicable.
 - .2 Identify temporary installation of access equipment and temporary storage.
 - .3 Identify safe routes of pedestrian traffic flow.
 - .4 Include proposed signage and barriers for traffic control.
- .3 Provide measures for protection and diversion of traffic, including provision of watch-persons and flag-persons, erection of barricades, placing of lights around and in front of equipment and Work, and erection and maintenance of adequate warning, danger, and direction signs.

PART 2 PRODUCTS

2.01 NOT USED

- .1 Not Used.

PART 3 EXECUTION

3.01 NOT USED

- .1 Not Used.

END OF SECTION

PART 1 GENERAL

1.01 REFERENCES

- .1 Federal Legislation :
 - .1 Canada Labour Code, Part II, section 124 and 125.
 - .1 Canada Occupational Health and Safety Regulations.
 - .2 Transportation of Dangerous Goods Act, 1992 (TDGA).
 - .3 PSPC Asbestos Management Standard.
 - .4 Canada Consumer Product Safety Act.
 - .1 Surface Coating Materials Regulations SOR/2016-193.
 - .5 Canadian Environmental Protection Act, 1999 (CEPA).
 - .1 PCB Regulations (SOR/2008-273).
 - .2 Federal Halocarbon Regulations, 2003 (SOR/2003-289).
- .2 Provincial Legislation :
 - .1 Ontario Occupational Health and Safety Act, R.S.O. 1990.
 - .1 Ontario Regulation 490/09: Designated Substances, (O.Reg. 490/09).
 - .2 Ontario Regulation 278/05: Designated Substance - Asbestos on Construction Projects and in Buildings and Repair Operations, (O.Reg. 278/05).
 - .3 Ontario Regulation 213/91: Construction Projects (O.Reg. 213/91).
 - .2 Ontario Environmental Protection Act, R.S.O. 1990.
 - .1 Ontario Regulation 347/90: General – Waste Management (O.Reg. 347/90).
 - .2 Ontario Regulation 463/10: Ozone Depleting Substances and Other Halocarbons (O.Reg. 463/10).
 - .3 Ontario Dangerous Goods Transportation Act, R.S.O. 1990.
- .3 Canadian General Standards Board (CGSB).
- .4 Canadian Standards Association (CSA International). Selection, Use, and Care of Respirators.
- .5 Underwriters' Laboratories of Canada (ULC).

1.02 DEFINITIONS

- .1 Asbestos-Containing Material (ACM): means material that contains 0.5 per cent or more asbestos by dry weight as per O.Reg. 278/05.
- .2 Friable Material: material that when dry can be crumbled, pulverized or powdered by hand pressure and includes such material that is crumbled, pulverized or powdered.
- .3 Time-weighted average exposure limit (TWAEL): the time-weighted average airborne concentration of a biological or chemical agent to which a worker may be exposed in a

work day or work week as prescribed by Ontario Regulation 490/09 Designated Substances, as amended.

1.03 DESIGNATED SUBSTANCES

- .1 Confirm with the Departmental Representative that no additional designated substances have been brought to the project area prior to beginning work.
- .2 Additional designated substances and hazardous materials may exist outside the accessible survey areas but are beyond the scope of this project.
- .3 Should any additional material, suspected to be a designated substance, be encountered within the project area, any disturbance of such material must be stopped, precautionary measures taken, and the Departmental Representative must be notified immediately. Do not proceed until written instructions have been received.
 - .1 ACRYLONITRILE: Not Identified.
 - .2 ARSENIC: Not Identified.
 - .3 ASBESTOS: Assumed:
 - .1 Non-friable mortar (shallow and bedding mortar) is assumed to be asbestos-containing material unless bulk sampling proves otherwise. Samples will be collected for analysis at the beginning of the project once equipment is in place to access the elevated work areas. Department Representative will perform sample analysis and report results at that time.
 - .2 Historic shallow mortar samples collected from other areas of the building have not contained asbestos.
 - .4 BENZENE: Not Identified.
 - .5 COKE OVEN EMISSIONS: Not identified.
 - .6 ETHYLENE OXIDE: Not Identified.
 - .7 ISOCYANATES: Not Identified.
 - .8 LEAD: Assumed:
 - .1 All surface coatings should be assumed to be lead containing unless proven otherwise by bulk sampling.
 - .2 Mortar may contain lead. Samples will be collected for analysis at the beginning of the project once equipment is in place to access the elevated work areas. Departmental Representative will perform sample analysis and report results at that time.
 - .9 SILICA: Identified:
 - .1 Based on the historic composition of building materials, silica is expected to be present in:
 - .1 Concrete;
 - .2 Stone, Brick; and other masonry units;
 - .3 Mortar(s).
 - .10 VINYL CHLORIDE MONOMER: Not Identified
 - .11 POLYCHLORINATED BIPHENYLS (PCBs): Not Identified

1.04 RECOMMENDATIONS

.1 ASBESTOS

- .1 All work that may disturb ACMs must be done in accordance with Canada Occupational Health and Safety Regulations (as amended), PSPC Asbestos Management Standard, and O.Reg 278/05 (as amended). In the event of conflict between the federal and provincial regulations, the most stringent procedures apply.
 - .1 The disturbance of ACMs on construction and demolition projects is regulated by the Canada Occupational Health and Safety Regulations, PSPC Asbestos Management Standard, and in the province of Ontario by O.Reg 278/05, as amended. These Regulations classifies all asbestos disturbances as Low Risk (Type 1), Moderate Risk (Type 2), or High Risk (Type 3), each of which has defined precautionary measures. All asbestos materials are subject to specific handling and disposal precautions, and must be removed prior to demolition. The Ontario Ministry of Labour (MoL) must be notified of any project involving removal of more than a minor amount (e.g. typically 1 square metre) of friable asbestos material.
- .2 Disposal of asbestos waste must be done in accordance with “General – Waste Management” O.Reg. 347/90 (as amended) under the Ontario Environmental Protection Act, the Ontario Dangerous Goods Transportation Act, and the federal Transportation of Dangerous Goods Act. The waste must be disposed at a licensed waste disposal site. Proper notification must be issued to the Departmental Representative prior to transportation of waste.

.2 LEAD

- .1 When disturbing lead containing materials, follow recommendations provided in the Ontario Ministry of Labour (MoL) Guideline entitled “Guideline: Lead on Construction Projects”. This guideline classifies all lead disturbances as Type 1, Type 2a, Type 2b, Type 3a or Type 3b work, and assigns different levels of respiratory protection and work procedures for each classification.
- .2 Work procedures and personal protective equipment must be used to ensure that workers are not exposed to airborne lead levels that exceed the TWAEI of 0.05 milligram per cubic metre (mg/m³) prescribed by O.Reg. 490/09.
- .3 Disposal of construction waste containing lead must be done in accordance with O.Reg. 347/90 – General Waste Management, as amended, under the Ontario Environmental Protection Act, the Ontario Dangerous Goods Transportation Act, and the federal Transportation of Dangerous Goods Act. The classification of the waste is dependent upon the result(s) of leachate test(s). The waste can be classified as “hazardous”, “non-hazardous” or “registerable solid waste” depending on the results of the leachate test.

.3 SILICA

- .1 Comply with Ontario Regulations O.Reg. 490/09 when performing work that may disturb silica-containing materials.

- .2 Silica dust can be generated through such processes as sanding, blasting, grinding, crushing, and sandblasting silica-containing material. Since silica is present in select materials within the project area, appropriate respiratory protection and ventilation must be used during work.
- .3 Follow recommendations provided in the MoL Guideline entitled "Guideline: Silica on Construction Projects". This document classifies all silica disturbances as Type 1, Type 2 or Type 3 work, and assigns different levels of respiratory protection and work procedures for each classification. These work procedures should be followed when performing work involving the disturbance of silica-containing materials.

PART 2 PRODUCTS

2.01 NOT USED

- .1 Not used.

PART 3 EXECUTION

- .1 At outset of contract award, proceed immediately with investigation and testing as indicated in this section.
- .2 Investigation requires performance of masonry opening, see Section 04 05 10.01 Masonry Stone Removal Openings.
- .3 Upon completion of opening for DSR investigation, provide material samples for testing performed by Departmental Representative.

END OF SECTION

PART 1 GENERAL

1.01 ADMINISTRATIVE

- .1 Submit to Departmental Representative submittals listed for review. Submit promptly and in orderly sequence to not cause delay in Work. Failure to submit in ample time is not considered sufficient reason for extension of Contract Time and no claim for extension by reason of such default will be allowed.
- .2 Do not proceed with Work affected by submittal until review is complete.
- .3 Present shop drawings, product data, samples and mock-ups in SI Metric units.
- .4 Where items or information is not produced in SI Metric units converted values are acceptable.
- .5 Review submittals with Contractor prior to final submission. This review represents that necessary requirements have been determined and verified, or will be, and that each submittal has been checked and coordinated with requirements of Work and Contract. Submittals not stamped, signed, dated and identified as to specific project will be returned without being examined and considered rejected.
- .6 Notify Departmental Representative, in writing at time of submission, identifying deviations from requirements of Contract Documents stating reasons for deviations.
- .7 Verify field measurements and affected adjacent Work are coordinated.
- .8 Contractor's responsibility for errors and omissions in submission is not relieved by Departmental Representative's review of submittals.
- .9 Contractor's responsibility for deviations in submission from requirements of Contract Documents is not relieved by Departmental Representative review.
- .10 Keep one reviewed copy of each submission on site.
- .11 Meet all submittal requirements indicated in this section, and all submittal requirement indicated in the specific section from which the work is primarily defined.

1.02 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 Submit drawings stamped and signed by professional engineer registered or licensed in Ontario, Canada.
- .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 co-ordinated, regardless of Section under which adjacent items will be supplied and installed. Indicate cross references to design drawings and specifications.

- .4 Allow ten (10) days for Departmental Representative's review of each submission.
 - .5 Adjustments made on shop drawings by Departmental Representative are not intended to change Contract Price. If adjustments affect value of Work, state such in writing to Departmental Representative prior to proceeding with Work.
 - .6 Make changes in shop drawings as Departmental Representative may require, consistent with Contract. When resubmitting, notify Departmental Representative in writing of revisions other than those requested.
 - .7 Submissions include:
 - .1 Date and revision dates.
 - .2 Project title and number.
 - .3 Name and address of:
 - .1 Contractor.
 - .2 Subcontractor.
 - .3 Supplier.
 - .4 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 Identification and quantity of each shop drawing, product data and sample.
 - .6 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 adjacent work.
 - .8 After Contractor's review, distribute electronic copies to Departmental Representative.
 - .9 Submit Electronic Copy of shop drawings for each requirement requested in specification Sections and as Departmental Representative reasonably request.
 - .10 Submit Electronic Copy of product data sheets or brochures for requirements requested in specification Sections and as requested by Departmental Representative where shop drawings will not be prepared due to standardized manufacture of product.
 - .11 Submit Electronic Copy of test reports for requirements requested in specification Sections and as requested by Departmental Representative.
-

- .1 Report signed by authorized official of testing laboratory that material, product or system identical to material, product or system to be provided has been tested in accord with specified requirements.
- .2 Testing must have been within three (3) years of date of contract award for project.
- .12 Submit Electronic Copy of certificates for requirements requested in specification Sections and as requested by Departmental Representative.
 - .1 Statements printed on manufacturer's letterhead and signed by responsible officials of manufacturer of product, system or material attesting that product, system or material meets specification requirements.
 - .2 Certificates must be dated after award of project contract complete with project name.
- .13 Submit Electronic Copy of manufacturer's instructions for requirements requested in specification Sections and as requested by Departmental Representative.
 - .1 Pre-printed material describing installation of product, system or material, including special notices and Material Safety Data Sheets concerning impedances, hazards and safety precautions.
- .14 Submit Electronic Copy of Manufacturer's Field Reports for requirements requested in specification Sections and as requested by Departmental Representative.
- .15 Documentation of the testing and verification actions taken by manufacturer's representative to confirm compliance with manufacturer's standards or instructions.
- .16 Clearly indicate information specifically applicable to this project.
- .17 Supplement standard information to provide details applicable to project.
- .18 If upon written review by Departmental Representative no errors or omissions are discovered or if only minor corrections are made, fabrication and installation of Work may proceed. If shop drawings are rejected, noted copy will be returned and resubmission of corrected shop drawings, through same procedure indicated above, must be performed before fabrication and installation of Work may proceed.
- .19 The review of shop drawings by Departmental Representative is for sole purpose of ascertaining conformance with general concept.
 - .1 This review shall not mean that the Departmental Representative approves detail design inherent in shop drawings, responsibility for which shall remain with Contractor submitting same, and such review shall not relieve Contractor of responsibility for errors or omissions in shop drawings or of responsibility for meeting requirements of construction and Contract Documents.

1.03 SAMPLES

- .1 Submit for review samples in duplicate as requested in respective specification Sections. Label samples with origin and intended use.
- .2 Deliver samples prepaid to Departmental Representative's office.

- .3 Notify Departmental Representative in writing, at time of submission of deviations in samples from requirements of Contract Documents.
- .4 Where colour, pattern or texture is criterion, submit full range of samples.
- .5 Adjustments made on samples by Departmental Representative are not intended to change Contract Price. If adjustments affect value of Work, state such in writing to Departmental Representative prior to proceeding with Work.
- .6 Make changes in samples which Departmental Representative may require, consistent with Contract Documents.
- .7 Reviewed and accepted samples will become standard of workmanship and material against which installed Work will be verified.

1.04 MOCK-UPS

- .1 Erect mock-ups in accordance with Section 01 45 00 - Quality Control.

1.05 PHOTOGRAPHIC DOCUMENTATION

- .1 Submit electronic copy of colour digital photography in JPG format, fine resolution, organized by date and location, weekly and as directed by Departmental Representative.
 - .1 Quality: well-illuminated, appropriate exposure, sharply focused, free of glare and motion blur.
 - .2 Identification: name and number of project, location, orientation and date of exposure. Include Opening number and Area number as required.
 - .3 Number of viewpoints: viewpoints and their location as determined by Departmental Representative.
 - .4 Frequency of photographic documentation: daily.
 - .1 Minimum 10 daily photographs documenting the progress of Work.

PART 2 PRODUCTS

2.01 2.01 NOT USED

- .1 Not Used.

PART 3 EXECUTION

3.01 3.01 NOT USED

- .1 Not Used.

END OF SECTION

PART 1 GENERAL

1.01 REFERENCE STANDARDS

- .1 Canada Labour Code, Part 2, Canada Occupational Safety and Health Regulations.
- .2 Province of Ontario :
 - .1 Occupational Health and Safety Act and Regulations for Construction Projects, R.S.O. 1990, c. O.1, as amended and O. Reg. 213/91, as amended.
 - .2 Occupational Health and Safety Act and Regulations for Designated Substances, R.S.O. 1990, c.O.1, as amended and O.Reg. 490/09, as amended.

1.02 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Bids not meeting all of the following submittal requirements will be given no further consideration.
- .3 Submit the following requirements to the Departmental Representative within 24 hours after date of Notice to Proceed and prior to commencement of Work:
 - .1 Submit proof of liability insurance paper with a valid clearance certificate from the Workplace Safety Insurance Board (WSIB) and/or Commission des normes, de l'équité, de la Santé et de la Sécurité du Travail (CNESST).
- .4 Submit site-specific Health and Safety Plan: 24 hours 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 found in work plan.
 - .3 Company Health and Safety Policy.
 - .4 On-site Contingency and Emergency Response Plan: address standard operating procedures to be implemented during emergency situations.
 - .5 Planned implementation of Traffic Management measures.
- .5 Departmental Representative will review Contractor's site-specific Health and Safety Plan and provide comments to Contractor within 5 business days after receipt of plan. Revise plan as appropriate and resubmit plan to Departmental Representative within 24 hours after receipt of comments from Departmental Representative.
- .6 Departmental Representative'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.
- .7 Submit to Departmental Representative, submittals listed for review. Submit promptly and in orderly sequence to not cause delay in Work. Do not proceed with Work affected by submittal until review is complete.

- .8 Advise Departmental Representative immediately of any visit to the site by Federal or Provincial authorities, or health and safety inspectors. Submit copies of reports or directions issued by such authorities within 24 hours of the visit.
- .9 Advise Departmental Representative immediately of any incident, accident, injury, near-miss, fire, explosion, or chemical spill occurring at the work site. Submit copies of incident and accident reports within 24 hours of the event.
- .10 Submit WHMIS MSDS - Material Safety Data Sheets.
- .11 Submit proof of training and qualifications of Contractor, personnel, alternates, and person responsible for site health and safety including, but not limited to, the following:
 - .1 Requirements for hazards present on site.
 - .2 Training for use of personal protective equipment.
 - .3 Proof of liability Insurance. Insurance must be Site Specific with PWGSC indicated.
 - .4 Ministry of Labour (MOL) Registration of Contractors and employers engaged in construction form (Form 1000) completed.
 - .5 Employees Working at Heights Training Certificates.
 - .6 Employees WHMIS Certificates.
- .12 Work at site in accordance with Appendix A **PSPC CMS Construction Site COVID 19 Protocols**.

1.03 DOCUMENT VALIDITY

- .1 The Departmental Representative reserves the right to verify applicability and validity of all documents submitted.

1.04 FILING OF NOTICE

- .1 File Notice of Project with Provincial Authority prior to beginning of Work and keep a printed copy on site.
- .2 Contractor shall agree to install proper site separation and identification in order to maintain time and space at all times throughout life of project.

1.05 MEETINGS

- .1 Attend health and safety pre-construction meetings.

1.06 PROJECT/SITE CONDITIONS

- .1 Work at site will involve contact with, but not exclusively:
 - .1 Silica (identified).
 - .2 Lead (assumed).
 - .3 Asbestos (assumed).
- .2 Work at site will involve, but not exclusively:
 - .1 Difficult vertical access on site.

1.07 RESPONSIBILITY

- .1 Be responsible for health and safety of persons on site, safety of property on site and for protection of public adjacent to site, and the environment to extent that they may be affected by conduct of Work.
- .2 Contractor will be responsible and assume the role Contractor as described in the Ontario Occupational Health and Safety Act and Regulations for Construction Projects.
- .3 Comply with and enforce compliance by employees with safety requirements of Contract, applicable federal, provincial, and local statutes, regulations, and ordinances, and with site-specific Health and Safety Plan.
- .4 Do not allow any person to work alone as per provincial regulations.

1.08 COMPLIANCE REQUIREMENTS

- .1 Comply with specified standards and regulations to ensure safe operations at site containing hazardous or toxic materials.
- .2 Comply with Ontario Occupational Health and Safety Act, R.S.O. 1990, c.O.1 and Ontario Regulations for Construction Projects, O.Reg. 213/91.
- .3 Comply with the most recent Provincial Electrical Code.
- .4 Comply with CSA Z462 - Workplace electrical safety.

1.09 FIRE SAFETY REQUIREMENTS

- .1 Comply with both the National Building Code of Canada 2015 (NBC) and the National Fire Code of Canada 2015 (NFC) for safety of persons in buildings in the event of a fire and the protection of buildings from the effects of fire, as follows:
 - .1 The National Building Code (NBC): for fire safety and fire protection features that are required to be incorporated in a building during construction.
 - .2 The National Fire Code (NFC):
 - .1 The on-going maintenance and use of the fire safety and fire protection features incorporated in buildings.
 - .2 The conduct of activities that might cause fire hazards on premises.
 - .3 Limitations of hazardous contents on premises.
 - .4 The establishment of fire safety plans.
 - .5 Fire safety at construction and demolition sites.
- .2 No hot work, fire, or fire inducing activities, or flammable or explosive chemicals or compounds are permitted in, around, or on the building premises

1.10 UNFORESEEN HAZARDS

- .1 When unforeseen or peculiar safety-related factor, hazard, or condition occur during performance of Work, follow procedures in place for Employee's Right to Refuse Work in accordance with Acts and Regulations of Province having jurisdiction and advise Departmental Representative verbally and in writing.

1.11 CONSTRUCTION SAFETY CHECKLISTS

- .1 Complete the PWGSC General Safety Orientation Checklist from the Departmental Representative prior to starting Work on site.
- .2 PWGSC General Safety Orientation Checklist will be kept on site in a three ring site binder unless stated otherwise.
- .3 Review and implement applicable Health and Safety regulations in accordance to the PWGSC General Safety Orientation Checklist provided by the Departmental Representative.

1.12 HAZARDOUS MATERIALS

- .1 Comply with current requirements of Workplace Hazardous Materials Information System (WHMIS 2015) regarding use, handling, storage, and disposal of hazardous materials and current requirements regarding labeling and provision of Material Safety Data Sheets (MSDS).
- .2 Demolition of asbestos can be hazardous to health. Should material resembling spray or trowel applied asbestos be encountered in the course of demolition, stop Work, take preventative measures, and notify Departmental Representative immediately. Do not proceed with Work until written instructions have been received from the Departmental Representative.
- .3 Provide Departmental Representative a minimum of fifteen (15) working days' notice for Work involving designated substances (O.Reg. 490/09), hazardous substances, and before commencing any caulking, or before using adhesives.
- .4 In the event that Hazardous Materials are brought on site, Contractor will provide Departmental Representative Safety Data Sheets (SDS). SDS will be kept into the 3 ring binder located on site.

1.13 SITE SUPERVISOR REQUIREMENT

- .1 Employ and assign to Work a Competent Person as the Site Supervisor to be on site during execution of Work, and to enforce Contract safety requirements, applicable federal, provincial and local statutes, regulations, and ordinances, and site-specific Health and Safety Plan.

1.14 HEALTH AND SAFETY CO-ORDINATOR

- .1 Employ and assign to Work, competent and authorized representative as Health and Safety Co-ordinator; Site Supervisor can assume this role. Health and Safety Co-ordinator must:
 - .1 Have site-related working experience specific to activities associated with:
 - .1 Demolition and reconstruction of masonry,
 - .2 Working at heights.
 - .3 Hazardous materials.
- .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 and monitoring site-specific Contractor's Health and Safety Plan.
- .5 Be on site during execution of Work.

1.15 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 Ontario, and in consultation with Departmental Representative.

1.16 CORRECTION OF NON-COMPLIANCE

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

1.17 POWDER ACTUATED DEVICES

- .1 Use of powder actuated devices are not permitted in occupied buildings unless receipt of written permission from Departmental Representative.

1.18 POWER ACTUATED FASTENING DEVICES

- .1 Use of power actuated fastening devices are not permitted in occupied buildings unless receipt of written permission from Departmental Representative.

1.19 WORK STOPPAGE

- .1 Give precedence to the safety and health of public and site personnel and protection of environment over cost and schedule considerations for Work.
- .2 Assign responsibility and obligation to Site Supervisor to stop or start Work when, and at Site Supervisor's discretion, it is necessary or advisable for reasons of Health and Safety considerations. The Departmental Representative may also stop Work for Health and Safety considerations.

1.20 PUBLIC SAFETY

- .1 Precaution shall be taken to ensure that no person is exposed to undue risk. Risk area shall be adequately barricaded and warning signs (in both official language) or lights shall be installed on each section of barricades. Barricades shall be without opening.

PART 2 PRODUCTS

2.01 NOT USED

.1 Not Used.

PART 3 EXECUTION

3.01 NOT USED

.1 Not Used.

END OF SECTION

PART 1 GENERAL

1.01 INSPECTION

- .1 Allow Departmental Representative 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 if Work is designated for special tests, inspections, or approvals by Departmental Representative, or law of Place of Work.
- .3 If Contractor covers or permits to be covered Work that is 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.
- .4 Construction Documents represent Work applied to existing building conditions. In a timely manner, examine building site conditions before and during Work implementation. If unforeseen conditions are discovered and do not comply with design intents and requirements, inform Departmental Representative in writing immediately.
- .5 Departmental Representative will order part of Work to be examined if Work is suspected to be not in accordance with Contract. If, upon examination such work is found not in accordance with Contract, correct such Work and pay cost of examination and correction. If such Work is found to be in accordance with Contract, Departmental Representative will pay cost of examination and replacement.

1.02 INDEPENDENT INSPECTION AGENCIES

- .1 Independent Inspection/Testing Agencies will be engaged by Departmental Representative for purpose of inspecting and/or testing portions of Work. Cost of such services will be borne by Departmental Representative.
- .2 Provide equipment required for executing inspection and testing by appointed agencies.
- .3 Employment of inspection/testing agencies does not relax responsibility to perform Work in accordance with Contract.
- .4 If defects are revealed during inspection and/or testing, appointed agency will request additional inspection and/or testing to ascertain full degree of defect. Correct defect and irregularities as directed by Departmental Representative at no cost to Departmental Representative. Pay costs for retesting and re-inspection.

1.03 ACCESS TO WORK

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

1.04 PROCEDURES

- .1 Notify Departmental Representative in advance of requirement for tests, in order that attendance arrangements can be made.
- .2 Submit samples and/or materials required for testing, as specifically requested in specifications. Submit with reasonable promptness and in orderly sequence to not cause delays 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.

1.05 REJECTED WORK

- .1 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 Departmental Representative as failing to conform to Contract. Replace or re-execute in accordance with Contract.
- .2 Make good other Contractor's Work damaged by such removals or replacements promptly.
- .3 If in opinion of Departmental Representative, it is not expedient to correct defective Work or Work not performed in accordance with Contract, Departmental Representative will deduct from Contract Price difference in value between Work performed and that called for by Contract, amount of which will be determined by Departmental Representative.

1.06 REPORTS

- .1 Submit Electronic Copy of inspection and test reports to Departmental Representative.
- .2 Provide copies to subcontractor of Work being inspected or tested, manufacturer, or fabricator of material being inspected or tested.
- .3 Cost of reports beyond those indicated in Contract Documents or beyond those required by law of Place of Work will be appraised by Departmental Representative and may be authorized as recoverable.

1.07 TESTS AND MIX DESIGNS

- .1 Furnish test results and mix designs as requested.
- .2 Cost of tests and mix designs beyond those indicated in Contract Documents or beyond those required by law of Place of Work will be appraised by Departmental Representative and may be authorized as recoverable.

1.08 MOCK-UPS

- .1 Prepare mock-ups for Work specifically requested in specifications. Include for Work of Sections required to provide mock-ups.
 - .2 Construct mock-ups in locations acceptable to Departmental Representative, or as specified in specific Section.
-

- .3 Prepare mock-ups for Departmental Representative review with reasonable promptness and in orderly sequence, to not cause delays in Work.
- .4 Failure to prepare mock-ups in ample time is not considered sufficient reason for extension of Contract Time and no claim for extension by reason of such default will be allowed.
- .5 If requested, Departmental Representative will assist in preparing schedule fixing dates for preparation.
- .6 Specification section identifies whether mock-up is to remain as part of Work or if it is to be removed and when.
- .7 Some mock-ups require coordination with other sections and other mock-ups. Coordinate as indicated.
- .8 Alternate Mock-ups: Alternative mock-ups may be suggested or mock-ups may be combined when appropriate. Submit Alternate Mock-ups to Departmental Representative for review and coordination. Do not proceed with Alternate Mock-ups unless authorized in writing by Departmental Representative.

1.09 MILL TESTS

- .1 Submit mill test certificates as required of specification Sections.

PART 2 PRODUCTS

2.01 NOT USED

- .1 Not Used.

PART 3 EXECUTION

3.01 NOT USED

- .1 Not Used.

END OF SECTION

PART 1 GENERAL

1.01 REFERENCE STANDARDS

- .1 Province of Ontario
 - .1 Occupational Health and Safety Act and Regulations for Construction Projects, R.S.O. 1990, c. 0.1, as amended and O. Reg. 213/91, as amended.

1.02 VERTICAL ACCESS

- .1 Design, install, inspect, maintain, and dismantle temporary scaffoldings, work platforms, stair towers, suspended power platforms, and other types of access equipment required for each phase as needed in accordance with applicable municipal, provincial, federal, and other regulations and in accordance with O.Reg. 213/91.
- .2 Vertical access to specific AREAS are required across building facades and roof. Platform access is required for the following Work:
 - .1 Non-destructive evaluations (NDE) by Departmental Representative.
 - .2 Mortar sampling.
 - .3 OPENINGS including Departmental Representative review and documentation.
 - .4 Masonry Work.
- .3 Existing Site Conditions: locations identified by Contractor and Subcontractor for installation of scaffolding, access equipment, machinery or other equipment must be reviewed for structural appropriateness. Shoring must be identified, designed, and certified. Refer to site plan for site conditions, including grade levels, and underground tunnel located under Mackenzie Plaza.
- .4 ALTERNATES: Vertical access types associated to AREAS are identified in Construction Documents; alternative vertical access to perform NDE and OPENINGS may be submitted to Departmental Representative for review and consideration.

1.03 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Provide submittals in accordance with Section 01 33 00 – Submittal Procedures.
- .2 Shop Drawings:
 - .1 Submit engineered shop drawings, designed, signed, sealed, and stamped by professional engineer licensed in Ontario, for temporary shoring, scaffoldings, suspended power platforms, weather enclosures, and any other access equipment and installations. The professional engineer must approve, in writing, additions or modifications to scaffolding and suspended power platform. Include the following in the shop drawings:
 - .1 Location of access and temporary shoring.
 - .2 Access, assembly, and location of equipment.

- .3 Shoring of existing building and site conditions to support scaffold, access equipment, and machinery.
- .2 Submit engineered shop drawings, designed, signed, sealed, and stamped by professional engineer licensed in Ontario for crane lift to Departmental Representative for review if use of a crane is required during scaffolding installation or during Work.

1.04 INSTALLATION AND REMOVAL

- .1 Coordinate with Subcontractor for staging and construction facilities in order to execute Work expeditiously.
- .2 Coordinate with governing authorities and obtain required permits.
- .3 Remove from site all such Work after final inspection and approval of remediation construction.

1.05 FUNCTIONAL REQUIREMENTS

- .1 Provide all necessary hoists, cranes or outrigger beams to install and utilize scaffolding and suspended power platform.
- .2 Existing roof anchors must be inspected in accordance with CSA Z91-17 standard. Submit inspection report to Departmental Representative.
- .3 Existing site conditions must be reviewed by a professional engineer licensed in Ontario for acceptable loading of scaffolding, articulated boom lift, and other equipment or machinery

1.06 DESIGN CRITERIA

- .1 Scaffolding and suspended power platforms must be built to withstand all wind, rain and snow loads applicable to construction site in accordance with NBC – 2015 and OBC - 2012.
- .2 Scaffolding design must comply with current applicable Canadian Standards Association (CSA) and Scaffold Industry Association of Canada (SIAC) standards.
- .3 Scaffolding and suspended power platforms must access all AREAS defined for scaffolding or suspended power platforms and all identified OPENINGS must be performed as indicated.

1.07 GENERAL REQUIREMENTS FOR SCAFFOLDING

- .1 Provide scaffolding as defined in this Section.
- .2 Design scaffolding as follows:
 - .1 Scaffolding must have proper stairs or ladders, trap doors, railings, and tie-offs.
 - .2 Scaffolding may be built of modular parts whenever possible to facilitate installation and Work Schedule.
 - .3 Scaffolding components and accessories must be compatible with the capacity of engineered system design.

- .4 Platforms must be designed to support workers and extra loading of removed masonry units.
- .5 Provide appropriate guardrails, toe boards, intermediate rails, and handrails to make platform perimeters and openings safe.
- .6 Scaffolding design and erection must be in accordance with O.Reg. 213/91, and relevant municipal, provincial and federal regulations.
- .7 Walking surfaces must be continuous and flush within each work level and free of tripping hazards.
- .8 Headroom for stairs and work platforms must be sufficient for workers to circulate comfortably and upright, and to perform identified work.
- .3 Scaffolding must be isolated from masonry with 12 mm thick neoprene pads.
- .4 Anchoring into Heritage Materials is prohibited.
- .5 Respect requirements for emergency evacuation in accordance with O.Reg. 213/91, and relevant municipal, provincial and federal regulations.

PART 2 PRODUCTS

2.01 SCAFFOLD

- .1 Temporary scaffold/access systems must be designed, signed, sealed, and stamped by a professional engineer licensed in Ontario.
- .2 Protect scaffold components such that corrosion will not affect existing adjacent building site surfaces.
- .3 Alternates to scaffold system will be considered.
- .4 Components and accessories must be in accordance to requirements made by professional engineer licensed in Ontario.

2.02 SUSPENDED POWER PLATFORM

- .1 Suspended power platform must be designed, signed, sealed, and stamped by a professional engineer licensed in Ontario.
- .2 Protect suspended power platform components such that corrosion will not affect existing adjacent building site surfaces.
- .3 Components and accessories must be in accordance to requirements made by professional engineer licensed in Ontario.

PART 3 EXECUTION

3.01 INSTALLATION

- .1 Install Scaffolding and suspended power platform systems in accordance to OHSA and relevant municipal, provincial and federal regulations.

- .2 A Competent worker must supervise erection of scaffolding and suspended power platform equipment.
- .3 Professional engineer licensed in Ontario that prepared shop drawings must:
 - .1 Inspect scaffolding and suspended power platform before usage to ensure installation is in accordance with approved shop drawings.
 - .2 Provide written reports on a monthly basis certifying that installation continues to perform as designed.
- .4 Engineered Installations:
 - .1 Locate and install shoring designed by a professional engineer licensed in Ontario, access equipment, and machinery in accordance with approved shop drawings.
 - .2 Protect Heritage Materials at all times. Use neoprene spacers between shoring, access systems, and machinery and Heritage masonry walls and components.

3.02 OPERATION OF SUSPENDED POWERED PLATFORM AND ARTICULATED BOOM LIFT

- .1 Operators of powered vertical access equipment must be certified and insured.
- .2 Supply operator for equipment when Departmental Representative requires access via equipment.

3.03 REMOVAL

- .1 Remove temporary access and equipment and any surplus materials carefully; protect Heritage Materials. Make good defects incurred by temporary access and equipment.
- .2 Leave area clean, free of rubbish, tools and extra materials.
- .3 Removal should be coordinated with final inspection and review of Work, including deficiencies and their repair.

END OF SECTION

PART 1 GENERAL

1.01 INSTALLATION AND REMOVAL

- .1 Design, construct, and maintain temporary “access to” and “egress from” work areas and temporary safe separation of work areas from non-work areas. These temporary facilities may include: hoarding, fencing, signage, stairs, runways, ramps, ladders, and scaffolding, independent of finished surfaces and in accordance with relevant municipal, provincial, national, and other regulations.
- .2 Provide temporary barrier and enclosure control systems in order to execute Work expeditiously, and to separate, guide, and protect all human activity around the occupied building, including the Contractor and his personnel.
- .3 Barrier systems involving cones, tapes, flags, signs, and flagman must be implemented around Work conditions that will last no more than one (1) Working Day. Use and implementation must be in accordance with relevant municipal, provincial and other regulations.
- .4 Temporary Overhead Protection: protect access into and around occupied building and premises as indicated. Temporary protection may be self-supporting overhead hoarding or hoarding/netting systems. Do not fasten temporary barriers and enclosures into existing surfaces.
- .5 Upon completion remove scaffolding, temporary protection and surplus materials. Make good defects noted at this stage.

1.02 PERIMETER SECURITY FENCING

- .1 Perimeter Security Fencing as described here-in, must be installed around temporary work installations and storage areas that will stay in place for more than one (1) day, but less than four (4) weeks, or one (1) month.
- .2 At locations on site in which Work will require grade level areas/locations to be established for more than one (1) day, provide Identified Entry locations install temporary site screening fence meeting the following requirements:
 - .1 Movable Unitary System;
 - .2 Interlocking units;
 - .3 Security attachments between units such as bolts, wires, or other deterrents to disassembly;
 - .4 Finished in black;
 - .5 Fully visually blocked with opaque black screening fabric, or mesh;
 - .6 Minimum 244cm in height;
 - .7 Self-supporting – no anchoring into grade surfaces permitted;
 - .8 Non-climbable;
 - .9 Accessories must accommodate Contractor access requirements and site conditions including but not limited to:
 - .1 Fence clamp;

- .2 Gate swing;
 - .3 Gate locking mechanisms, with locks and keys.
- .3 Provide written barrier and fencing plans to Departmental Representative for review, prior to site mobilization. Coordinate review with Departmental Representative and obtain written approval to proceed.
- .4 Where required, provide permanent, weatherproof signage in both official languages fixed to the Perimeter Security Fencing indicating the locations of the standpipe and Siamese connections. Sizes and type of signage and final locations are to be approved by Departmental Representative.
- .5 Do not block or obscure exits or exit paths from building or site.

1.03 GUARD RAILS AND BARRICADES

- .1 Provide secure, rigid guard rails and barricades around open shafts, open stair wells, open edges of floor and roofs, and as required by governing authorities.

1.04 DUST TIGHT SCREENS

- .1 Provide dust tight screens or partitions to localize dust generating activities, and for protection of workers, public, and finished areas of Work in accordance with NFC 2015.
- .2 Maintain and relocate protection until such work is complete.
- .3 Coordinate with Section 01 14 24 - Designated Substances.

1.05 ACCESS TO SITE

- .1 Provide and maintain access roads, sidewalk crossings, ramps and construction runways as may be required for access to Work.

1.06 PUBLIC TRAFFIC FLOW

- .1 Provide and maintain competent signal flag operators, traffic signals, barricades and flares, lights, or lanterns as required to perform Work and protect public.

1.07 FIRE ROUTES

- .1 Maintain access to property including overhead clearances for use by emergency response vehicles.

1.08 PROTECTION FOR OFF-SITE AND PUBLIC PROPERTY

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

1.09 PROTECTION OF BUILDING FINISHES

- .1 The Connaught Building is a classified Heritage Building. Work must be managed, sequenced, planned, and executed in order to preserve the building's heritage value.

- .2 Do not fasten temporary barriers and enclosures into existing surfaces. At completion of Work remove enclosures, vacuum and clean, and reinstate all existing surfaces to the approval of Departmental Representative.
- .3 Provide protection for finished and partially finished building finishes and equipment during performance of Work. Maintain and relocate protection for phasing until such Work is complete.
- .4 Protect adjacent Work against the spread of dust and dirt beyond the Work areas.
- .5 Privacy Screening System: Coordinate design, installation process, locations, and scheduling of Privacy Screening or other screening systems to meet occupancy privacy requirements with Departmental Representative three (3) working days prior to installation.
- .6 Be responsible for damage incurred due to lack of or improper protection.

1.10 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit product data sheets and shop drawings in accordance to Section 01 33 00 – Submittal Procedures for the following items:
 - .1 Barrier systems/units.
 - .2 Perimeter Security Fencing.

1.11 SITE SEPARATION AND IDENTIFICATION

- .1 Coordinate and communicate Work and Work related activities when Building Operations Staff and Departmental Representative require access to equipment for normal building operations.
- .2 Submit storage, laydown, and access locations to facilitate Work in AREAS and OPENINGS to Departmental Representative for review and approval.

PART 2 PRODUCTS

2.01 NOT USED

- .1 Not Used.

PART 3 EXECUTION

3.01 NOT USED

- .1 Not Used.

END OF SECTION

PART 1 GENERAL

1.01 REFERENCE STANDARDS

- .1 Canadian Standards Association (CSA International).
 - .1 CSA A179-14, Mortar and Grout for Unit Masonry.
 - .2 CSA-A371-14, Masonry Construction for Buildings.

1.02 PHASING

- .1 Work in this section to be completed during Phase 2, Spring 2021.

1.03 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Provide submittals in accordance with Section 01 33 00 – Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature including product specifications, and technical data sheets for masonry accessory and mortars. Include product characteristics, performance criteria, physical size, finish and limitations.
 - .2 Submit WHMIS MSDS - Material Safety Data Sheets in accordance with Section 01 35 29.06 - Health and Safety Requirements.
- .3 Shop Drawings:
 - .1 Submit drawings for OPENINGS where removal of masonry units impact inherent masonry structure.
 - .2 Indicate sequence of removal and reinstatement of all masonry units, including limitations.
 - .3 Detail shoring and temporary bracing required, design to resist wind pressures, lateral forces, and to support structure and wall elements during masonry removal and reinstatement.
 - .4 Submit drawings stamped and signed by professional engineer experienced with historic masonry structures and registered or licensed in Ontario, Canada.
- .4 Samples:
 - .1 Submit one (1) sample of each type of masonry accessory, anchor, and reinforcing.
 - .2 Submit one (1) sample of each replacement mortar constituent in 500 ml plastic container with screw top lid.
- .5 Photographic Documentation:
 - .1 Submit photos of OPENING locations before removing masonry units to document masonry arrangement for exact reinstatement.
- .6 Submit written methodology for masonry removal and reinstatement Work to Departmental Representative for review and approval before commencing Work.

- .7 Submit list of tools to be used for all masonry Work to Departmental Representative for review and approval before commencing Work.

1.04 QUALITY ASSURANCE

- .1 Mock-ups:
 - .1 Construct mock-ups in accordance with Section 01 45 00 - Quality Control.
 - .2 Construct mock-up of masonry reinstatement where directed by Departmental Representative.
 - .3 Construct mock-up of masonry reinstatement under supervision of Departmental Representative to demonstrate a full understanding of specified procedures is achieved before Work commences:
 - .1 Construct mock-ups to illustrate:
 - .1 Repointing, back pointing, and bedding;
 - .2 Original masonry lay-up reinstatement;
 - .3 Proper historic masonry installation skills.
 - .2 Mock-up will be used:
 - .1 To judge workmanship, substrate preparation, operation of equipment, and material application;
 - .2 For testing to determine compliance with performance requirements;
 - .3 Quality and degree of finish required.
 - .4 Allow 24 hours for inspection of mock-up by Departmental Representative. Start Work only upon receipt of written approval by Departmental Representative.
 - .5 Repeat or alter mock-up until satisfactory results are obtained in writing by Departmental Representative.
 - .6 Approved mock-ups will demonstrate minimum standard for this work. Mock-up to remain as part of finished work.
 - .7 Only those who have successfully completed mock-ups will be permitted to perform the task.
 - .1 Obtain written approval from Departmental Representative for changes to personnel.

1.05 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store, and handle materials in accordance with manufacturer's written instructions.
- .2 Do not use materials which have exceeded manufacturer's recommended shelf life.

1.06 AMBIENT CONDITIONS

- .1 Execute all mortar Work when ambient temperature and humidity of mortar meet requirements specified for the Historic Mortar.

- .2 When conditions do not meet requirements prescribed herein, provide temporary protection system around curing area to ensure that stated environmental conditions are maintained for curing period. Take precautions to avoid overheating masonry.
- .3 Submit temporary protection system for review by Departmental Representative in accordance with Section 01 56 00 – Temporary Barriers and Enclosures and Section 01 33 00 - Submittal Procedures.

PART 2 PRODUCTS

2.01 MATERIALS

- .1 Historic mortar mix:
 - .1 1 part white Portland cement, type 1.
 - .2 2 parts Type SA lime.
 - .3 8 parts sand.
 - .1 Sand: to ASTM C144-18, sharp, sieved (no.8) and washed siliceous pit sand, free of any organic material, graded as specified, from the granite sand pits located at Renfrew, Ontario to approval of Departmental Representative. Colour light buff/cream (Gillian sand vein) to approval of Departmental Representative.
- .2 Replacement masonry anchors:
 - .1 Replace corroded anchors with 300 series stainless steel anchors.
 - .2 Replacements to match original in style, intent, extension and catchment, and installation.

PART 3 EXECUTION

3.01 EXAMINATION

- .1 Verification of Conditions: verify masonry, staging and storage areas and notify Departmental Representative in writing of conditions detrimental to acceptable and timely completion of Work.
 - .1 Visually inspect substrate in presence of Departmental Representative.
 - .2 Inform in writing Departmental Representative areas of deteriorated masonry not previously identified.
 - .3 Obtain Departmental Representative's approval and instructions for repair and replacement of masonry units before proceeding with repair work.
- .2 Coordinate with Departmental Representative and collect mortar samples at each OPENING location prior to proceeding with Work. Work may only proceed upon receipt of Designated Substance Report and written confirmation from Departmental Representative that hazardous materials are not present in mortar samples.

- .1 Stop work immediately and report to Departmental Representative evidence of hazardous materials.

3.02 PROTECTION

- .1 Seal and protect openings, doors, windows, and adjacent areas to prevent damage and spread of construction dust, water or other materials into the building in accordance to Section 01 56 00 - Temporary Barriers and Enclosures.
- .2 Take necessary safety measures to protect workers, Occupants, and environment from silica contamination during removal of mortar and stones. Refer to Section 01 14 25 – Designated Substances.
- .3 The Connaught Building is a classified Heritage Building. Protect and take utmost care to ensure existing masonry surfaces, sculptural carvings, and sills are not damaged during Work. Make good damage to historic fabric.
- .4 Protect masonry and other Work from marking and impact damage. Protect completed Work from mortar droppings. Use non-staining coverings.

3.03 SPECIAL TECHNIQUES

- .1 Number and identify stones and other elements on a photographic record.
- .2 Before dismantling stones, indicate dimensions of each numbered stone in OPENING area on a drawing or chart.
- .3 Temporary Marking and Recording:
 - .1 Mark stone, on face, before removal using marking product which can be completely erased when required without damaging masonry unit:
 - .1 Ball-point pen on diachylon, attached to stone.
 - .2 Waxless chalk directly on stone.
 - .2 Mark/Identify:
 - .1 Stones and other elements or components to show identity and position.
 - .2 Wood platforms or other equipment used to transport and store stones.
 - .3 Work and storage areas.
 - .4 Location from which stones are removed on photographs, drawing, or chart.
 - .3 Stone location recording system:
 - .1 Prepare chart to:
 - .1 Help locate stones or units when necessary.
 - .2 To manage availability of platforms.
 - .3 To manage work and storage areas.
 - .2 Keep chart up-to-date and, if required, produce copy every day.
 - .4 Ensure that temporary marking will remain in use and is resistant to weather, handling and cleaning until final installation of stones.

- .5 Remove markings and adhesive without damaging units:
 - .1 Brush with vegetable fibre brush: either dry or with water.
 - .2 Use no solvent, acid or other chemical product

3.04 TEMPORARY SHORING

- .1 Construct shoring and other temporary framing work needed to support structure, or parts of it, during removal operations and in anticipation of reinstatement, according to approved shop drawings.

3.05 RAKING JOINTS

- .1 Use manual raking tool to obtain clean masonry surfaces.
- .2 Remove mortar without chipping, altering or damaging masonry units.
- .3 Power tools are not permitted unless approved in writing by Departmental Representative.
- .4 Where use of power tools to remove mortar is deemed appropriate and confirmed in writing by Departmental Representative:
 - .1 Rake out using maximum 86 mm diameter blades to centre of joint only. Mortar must remain on each side of saw cut. Raking must not touch masonry units. Do not cut masonry units.
 - .2 Notify Departmental Representative to inspect raking, prior to removing remaining mortar with hand tools.
 - .3 Remove remaining mortar with hand tools.
- .5 Repair stone damaged as a result of careless raking of saw cutting.

3.06 DISMANTLING, REMOVING AND MOVING STONES

- .1 Avoid damaging stone when removing mortar and freeing up.
- .2 Remove excess mortar using hand tools.
- .3 Use wood wedges where required to remove or dislocate stone.
 - .1 Use flat pry bars protected with impact absorbing protection (burlap, cardboard).
- .4 Use regularly inspected nylon hoisting belts. Use minimum two (2) belts per stone.
- .5 Protect stone from damage when hoisting and lifting from position.
 - .1 Use separators or wood shims to isolate units from hoisting belts.
- .6 Where damage occurs to stone, report to Departmental Representative and repair stone.
- .7 Make good damage incurred at no additional cost to Contract.
- .8 Obtain review and approval of repaired damage by Departmental Representative.
- .9 Assume depth of each OPENING to include:

- .1 One (1) wyth of masonry face stone;
- .2 Up to two (2) wyths of masonry brick behind face stone.
- .10 Report all concealed structural steel items discovered during Work to Departmental Representative for review. Departmental Representative will provide direction if additional Work is required to exposed structural steel or other construction.
- .11 Protect stored masonry and exposed OPENINGS from environmental impacts.

3.07 STONE REINSTATEMENT

- .1 Coordinate bond pattern, coursing height, and joint width with existing stonework in area selected by Departmental Representative. Refer to digital photographs.
- .2 Clean dust and stone fragments from slot.
- .3 Clean stone by washing with water and natural fibre brush before laying.
- .4 Before proceeding with Work, inspect cleaned surface and OPENINGS with Departmental Representative.
 - .1 Prevent materials from entering or penetrating building wall cavities. Report material findings to Departmental Representative before continuing with Work.
- .5 Install anchors, dowels and cramps.
 - .1 Obtain approval of Departmental Representative of placement of anchors prior to placing mortar.
 - .1 Place anchors, fasteners, and metallic items required in outer wythe at least 75 mm from the inner face of the outer wythe.
 - .2 Use up to four (4) non-corrosive anchors. Assume helical or joint embedment stainless steel anchors.
- .6 Dampen joint slot's surfaces before applying mortar.
- .7 Apply bedding mortar.
 - .1 Lay stones on full beds of mortar.
 - .2 Lay heavy stones and projecting stones after mortar in courses below has hardened sufficiently to support weight.
 - .3 Prop and anchor projecting stones until wall above is set.
 - .4 Set large stones on water soaked softwood wedges to support stone in proper alignment until mortar has set. Remove wedges when dry, do not break off.
 - .5 Set stones to match alignment of adjacent stones in full bed of mortar with vertical joints buttered and placed full except where otherwise specified.
 - .6 Fill anchor completely, dowel and lifting holes and voids left by removed edges.
- .8 Fill vertical joints buttered and placed full in face, and at vertical joint between wythes.
- .9 Tool joints with a round jointer to provide smooth joints compressed uniformly concave.
- .10 Rake bedding mortar back to a minimum depth of 25 mm and make ready for pointing with pointing mortar in separate operation.
 - .1 Provide minimum 3-day damp cure to bedding mortar prior to pointing.

- .2 Remove mortar dropping from face of stone before mortar is set. Sponge stone free of mortar along joints as work progresses.

3.08 REPOINTING

- .1 Keep masonry damp during performance of pointing.
- .2 Maintain masonry temperature between 5 and 25 degrees C for duration of the Work. See Section 01 56 00 – Temporary Barriers and Enclosures for protection required for Work in this Section.
- .3 Completely fill joint with mortar.
 - .1 Masonry units with worn rounded edges: maintain joint width by pointing back from exterior face.
 - .2 Avoid feather edges.
 - .3 Pack mortar solidly into voids and joints.
 - .4 Build-up pointing in layers not exceeding 25mm in depth.
 - .1 Allow each layer to set before applying subsequent layers.
 - .2 Maintain joint width.
- .4 Tool and finish joints to match existing adjacent profile.
- .5 Remove excess mortar from masonry face before it sets.

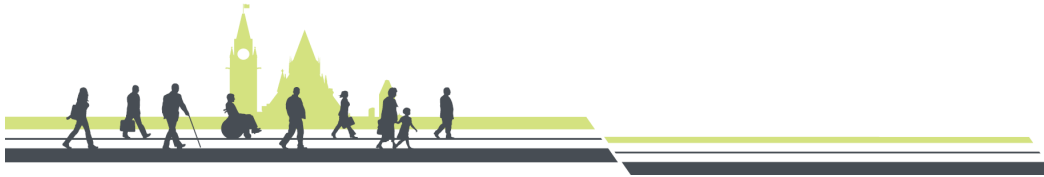
3.09 SITE TOLERANCES

- .1 Tolerances in notes to CSA-A371 apply.

3.10 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 00 10 – General Instructions.
 - .1 Leave Work area clean at end of each day.
- .2 Perform cleaning after installation to remove construction and accumulated environmental dirt.
- .3 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment.
- .4 Waste Management: separate waste materials for reuse and recycling in accordance with Section 01 00 10 – General Instructions.
 - .1 Remove containers and bins from site and dispose of materials at appropriate facility

END OF SECTION



PSPC CMS Construction Site COVID 19 Protocols

This document is for any **visitors/contractors/consultants** who will be accessing the construction site and applies for any Site Visits, Job Showings, and during Construction.

Site COVID-19 Protocols:

- **Maintain a minimum physical distance of two metres (2m) from others if it at all possible.** Workers 2m apart from others are at the lowest risk of being exposed to the virus. PPE is used when there is an increased risk workers may be exposed. PSPC priority is the protection of workers but does not want to contribute to the shortage of PPE available for front-line works. The use of PPE is only required when workers cannot separate.
- If workers must be closer than 2 metres then additional PPE is required as per the employers Hazard Assessment.
- Face coverings is the minimum requirement when workers cannot maintain 2m apart from others.
- Face coverings maybe worn when workers can distance themselves 2m from others but are not requirement.

For Information: Non-medical face coverings (such as homemade cloth masks) worn as a potential mitigation to catching and transmitting the virus, but are not to be treated as substitutes for proper handwashing, physical distancing, and other protective measures. Face coverings should be created and used in line with the guidelines provided by the Public Health Agency of Canada (PHAC), found here: canada.ca/en/public-health/services/diseases/2019-novel-coronavirus-infection/prevention-risks/instructions-sew-no-sew-cloth-face-covering.html;

- Cough into a tissue or the bend of your elbow, not your hand
- Dispose of all dirty tissues in a lined garbage can as soon as possible, not on the floor.
- Do not share personal items or supplies such as phones, pens, notebooks, tools, PPE, etc.;
- Avoid common physical greetings, such as handshakes;
- Use and remove PPE with care, being mindful of which surfaces may be contaminated.
 - Individuals must clean their hands after handling any used PPE;
 - Discarded PPE must go directly in to a lined garbage bag or sealed bag until cleaned.

Site Hygiene:

- PSPC has a worker orientation and worker screening protocol for the site.
- PPSC ensures workers on site has access to proper hygiene facilities including wash up stations. (Review their location).
- PSPC will provide running water and flush toilets if possible. In the event that they are not available PSPC may use portable washrooms. Portables washrooms and high use touch points should be cleaned at least twice daily and more often if required similar to building washrooms.
- If portable washroom facilities are used, separate portable handwashing facilities should be provided as well. To allow workers to do hand washing without entering the portable washroom.
- Wash hands often with soap and water for at least 20 seconds after using the washroom, before handling food, after blowing nose, coughing, or sneezing, and before smoking.
- Avoid touching your face, eyes nose, mouth with unwashed hands

- If hands are not visibly soiled, and soap and water are unavailable, alcohol-based hand sanitizer can be used.
- Clean and disinfect frequently touched objects and surfaces, including all reusable personal protective equipment (PPE); within construction sites (Review building protocols if using building facilities.) Contractors/consultants are required to provide their own cleaning materials for their individual work areas, tools, equipment, etc. For example High touch points within a construction site may include but are not limited to;
 - *Washrooms* (Faucets, plunger handles, soap dispensers, towel dispensers, toilet seats, disposal bin covers & lids, waste receptacles and door handles flush handles, light switches, soap dispenser levers, towel dispenser levers, hand dryer buttons, exit door handles and locks, Touch points on washroom stall doors and entrance doors, Water Fountains
 - *Office and Common Areas* (Touch points, doors, lights switches, Stairwell handrails, Waiting room furniture and foyer surfaces, Light Switch Plates / Door handles/Thermostats,
 - *Kitchen/Break area* (counters, cupboard handles, fridge handle, microwave handle and buttons, coffee pots, vending machines, water coolers and buttons),
 - Escalator handrails, Passenger Elevators, Elevator push buttons, Escalator handrails,
 - *Drinking fountains, Lobby Reception Areas / Security Stations / Public Waiting Areas* (desk surfaces, pens, door handles, stairway railings),
 - *Loading / Shipping dock* (Rails, push buttons, overhead door handle in freight elevator),
 - *Public telephones, Chairs* (arm rests and chair levers)
 - *Conference Rooms* (Tabletops (Meeting rooms, interview rooms training rooms, cafeterias, photocopy stations), Chairs (arm rests and chair levers), window sills, tables and/or desks surfaces, drawer/cabinet handle

Note: PSPC will be responsible to disinfect all general frequently touched objects and surfaces that are shared by all visitors and workers such as entry/exit door handles, common area light switches, site office table/chairs, site washroom/sink.

For information: Health Canada has provided guidance that a solution of 1 part bleach (5% sodium hypochlorite) to 9 parts water can be used for disinfecting most surfaces. Health Canada has also published a [list of hard-surface disinfectants](#) effective against coronavirus (COVID-19).

This document was created in reference to the Canadian Constructing Association's document "COVID-19 –Standard Protocols for ALL Canadian Construction Sites."
