

**AMENDMENT NO. 1 TO THE
TENDER DOCUMENTS**

Defence Construction (1951) Limited

CLOSING DATE/TIME: As indicated on the *Electronic Bidding System*

PROJECT NO.: TRS19008_82525

AMENDMENT DATE: July 2, 2026

PROJECT TITLE: Fire System Replacement, B052
Trenton, Ontario

TO ALL TENDERERS:

THE PURPOSE OF THIS AMENDMENT IS TO GIVE EFFECT TO THE FOLLOWING:

Indigenous Benefits Plan and Tender Evaluation

1. As part of Canada's commitment to maximize the participation of and benefit to *Indigenous Businesses*, *Tenderers* are advised that this solicitation will include an *Indigenous Benefits Plan (IBP)* that aims to ensure *Indigenous Business* participation in this project. These set-asides for *Indigenous Business(es)* are pursuant to applicable trade agreement provisions.
2. *Tenderers* are advised to refer to the *Supplementary Conditions* to the General Conditions DCL32 for additional details about the *Indigenous Benefits Plan*, including the associated definitions and terms and conditions.
3. *Tenderers* must submit both their lump-sum price (including the Indigenous Benefits Plan (IBP)) and a separate IBP Amount in dollars (\$) through the *Electronic Bidding System*.
4. *Tenderers* that submit an *IBP Amount* that represents less than one percent (1%) of their lump-sum price for the *Work* will be considered non-compliant, and their bids will be rejected. DCC will determine what percentage the *IBP Amount* represents in the following manner:

$$\frac{\text{IBP Amount}}{\text{Lump-sum price for the Work}} \times 100 = \%$$

5. *Tenderers* submitting a tender as a *joint venture* composed of an *Indigenous business* and a non-Indigenous business are advised that only *Work* performed by the *Indigenous business* forming part of the joint venture and/or by *Indigenous persons*, as defined in the *Supplemental Conditions*, may be counted for the purposes of calculating the IBP percentage, including where such *Work* is performed by *Indigenous persons* employed within the joint venture.
6. *Tenders* will be evaluated out of 100 points as follows:
 - 6.1 The Lump-sum price for the *Work* component of the tender will be evaluated out of 90 points.
 - 6.2 The *IBP Amount* component of the tender will be evaluated out of 10 points.
7. Evaluation of *Tenders*:

7.1 Evaluation of the Lump-sum price for the *Work* Component:

- .1 Each Tenderer's Lump-sum price for the *Work* will be prorated against the Tenderer offering the lowest Lump-sum price for the *Work* by dividing the lowest submitted Lump-sum price by the given Tenderer's submitted Lump-sum price. The resulting number will be multiplied by the weight factor identified in paragraph 6.1, as demonstrated in the following example:

	Tenderer 1	Tenderer 2	Tenderer 3
Lump-sum price for the <i>Work</i>	\$1,301,505.00	\$1,513,000.00	\$1,210,400.00
Calculation of points	$1,210,400/1,301,505 = 0.93$ $0.93 \times 90 = 83.70$ points	$1,210,400/1,513,000 = 0.80$ $0.80 \times 90 = 72.00$ points	$1,210,400/1,210,400 = 1.00$ $1.0 \times 90 = 90.00$ points

7.2 Evaluation of the *IBP Amount* Component:

- .1 Each Tenderer's *IBP Amount* will be prorated against the Tenderer offering the highest *IBP Amount* by dividing the given Tenderer's *IBP Amount* by the highest submitted *IBP Amount*. The resulting number will be multiplied by the weight factor identified in paragraph 6.2, as demonstrated in the following example:

	Tenderer 1	Tenderer 2	Tenderer 3
<i>IBP Amount</i>	\$118,000.00	\$70,800.00	\$23,600.00
Calculation of points	$\$118,000.00/\$118,000.00 = 1.00$ $1.00 \times 10 = 10.00$ points	$\$70,800.00/\$118,000.00 = 0.60$ $0.60 \times 10 = 6.00$ points	$\$23,600.00/\$118,000.00 = 0.20$ $0.20 \times 10 = 2.00$ points

7.3 Calculation of the overall scores:

- .1 A Tenderer's score for the Lump-sum price for the *Work* component and their score for the *IBP Amount* component will be added together to determine their overall score (to two (2) decimal places), as demonstrated in the following example:

	Tenderer 1	Tenderer 2	Tenderer 3
Lump-sum price for the <i>Work</i> Component Score	83.70	72.00	90.00
<i>IBP Amount</i> Component Score	10.00	6.00	2.00
Total Score	93.70	78.00	92.00

7.4 In accordance with 7.3. above, determination of the highest overall score will consider up to the first two (2) decimal places of a Tenderer's overall score.

7.5 In the event that the top two (2) overall scores are tied, the Tenderer that submitted the lowest Lump-sum amount will be selected.

7.6 lowest Lump-sum amount will be selected.

8. Tenderers are advised that any subsequent contract for the performance of the *Work* will include an *Indigenous Benefits Plan* (IBP). By submitting a tender, the Tenderer undertakes, in accordance with the terms of the Contract, to achieve the *IBP Amount* through *Work*

performed by one (1) or more *Indigenous businesses* and/or *Indigenous persons*, as defined in the Supplemental Conditions, including using *Indigenous persons* directly employed by the Contractor.

9. To **ISSUE**:

.1 Annex A - Indigenous Benefits Achievement Certification (2 pages attached)

10. To **ISSUE** Section 02 82 00.01 - Asbestos Abatement - Minimum Precautions, attached (7 pages).
11. To **ISSUE** Section 02 82 00.02 - Asbestos Abatement - Intermediate Precautions, attached (12 pages).
12. To **ISSUE** Section 02 83 10 - Lead-Based Paint Abatement - Minimum Precautions, attached (7 Pages).
13. To **ISSUE** Section 02 83 11 - Lead-Based Paint Abatement - Intermediate Precautions, attached (9 Pages).
14. DCC has issued an Advance Procurement Notice (APN) number TRS19008_82525 to allow contractors that do not hold a valid Designated Organization Screening (DOS) security clearance to initiate the sponsorship process prior to the launch of this solicitation.
15. To be eligible for contract award, a tenderer who does not hold a valid Designated Organization Verification (DOS) security clearance will be required to:
 - a. have submitted a *Sponsorship application* prior to the date of publication of this tender call as indicated in the *Electronic Bidding System* (MERX); and
 - b. meet all material requirements of the *sponsorship application package* by the closing date of the tender call as indicated in the *Electronic Bidding System* (MERX).
 - c. Have submitted a *bid*.
16. Reference Supplementary Conditions, **INSERT** the new "GC1.1.2.32 and GC1.1.2.33".

1.1.2.32" *sponsorship application*" means the activity of having completed the questionnaire on the DCC web page and having forwarded the answers to the DCC Industrial Security Program (ISP)".

1.1.2.33" *sponsorship application package*" means the activity of completing and forwarding the following forms to the DCC Industrial Security Program (ISP): the Application for Registration (AFR) for Canadian legal entities form, the Company Security Officer form, the Security Agreement form, the Security Clearance form, the Fingerprints Applicant form, the Alternate Company Security form and the Personnel Screening form".
17. Failure to comply with the requirements of paragraphs 15 will result in a bidder's tenderer's bid being considered non-compliant. However, if DCC determines, in its sole discretion that the failure of a tenderer to obtain the required security clearance is due to undue administrative delay on the part of CSP or DCC, DCC may not, in its sole discretion, exercise its authority to disqualify such tenderer.
18. All tenderers should submit a completed Application for Registration (AFR) form, as indicated in the Electronic Bidding System with their bid.
19. If a tenderer fails to submit the AFR form with their bid, DCC reserves the right to require a tenderer to submit the AFR form after the tender closes.
20. The date and time of the award will be at the sole discretion of DCC.
21. DCC recognises that in some cases, additional organisational security measures may be required by PSC and that obtaining the required security clearance may be delayed due to

factors beyond the tenderer's control. In such cases, PSPC's Contract Security Program (CSP) will inform DCC detailing the nature of the extenuating circumstances and the expected timeline for delivering the DOS or FSC.

22. Notwithstanding the existence of extenuating circumstances, if the tenderer is unable to obtain the required security clearance within the validity of the tender, DCC reserves the right, in its sole discretion, to declare the tenderer non-compliant, to select the next lowest compliant tenderer with the required security clearance, or to take any other action deemed appropriate.
23. The tenderer acknowledges that no compensation, reimbursement or indemnification will be provided for any costs, losses or damages incurred of any kind as a result of the failure to obtain the required security clearance within the specified time period.
24. The Contractor must, at all times during the performance of the Contract/Standing Offer, **hold a valid Designated Organization Screening (DOS)**, issued by the Contract Security Program (CSP), Public Works and Government Services Canada (PWGSC).
25. The Contractor personnel requiring access to sensitive work site(s) **must EACH hold a valid RELIABILITY STATUS**, granted or approved by the CSP, PWGSC.
26. Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of the CSP, PWGSC.
27. The *Contractor* will be required to comply with the provisions:
 - a. of the Security Requirements Checklist (SRCL OR-000011), attached and including four (4) pages.
 - b. Contract Security Manual, (Latest Edition).
28. All tenderers should submit a completed List of Names for Integrity Verification form with their tender, as indicated in the *Electronic Bidding System*.
29. If a tenderer fails to submit the completed List of Names for Integrity Verification form with their tender, DCC reserves the right to require a tenderer to submit the List of Names for Integrity Verification form after the tender closes.
30. Reference DCL193E- Instructions to Tenderers for Electronic Bidding – **DELETE** Item 17 and **INSERT** new Item 17:

“17 LANGUAGE OF THE CONTRACT

- 17.1 English shall be the language of the Contract and the entire written and verbal communication between the parties with respect to any matters related to the performance of the subject matter of the Contract.
 - 17.2 Unless otherwise specified in the Contract, all contractual documents to which the Contract applies or refers, as well as all deliverables, documents, reports, and results of work, services, or goods that the Contractor submits, provides, or delivers to DCC or Canada as part of the performance of the Contract, shall be in English.
 - 17.3 DCC reserves the right to translate, either internally or through a third party, any deliverable produced by the Contractor. In the event that DCC proceeds with translation, the Contractor may be provided with an opportunity to review and comment on the translated deliverable.”
31. The *Contractor* must provide a Fire Safety Plan in accordance with the National Fire Code of Canada (NFCC latest version) section 5.6.1.3. The contractor's responsibility for a Fire Safety Plan is limited to their construction activities and not for the whole

building. Responsibility for fire safety of the building areas outside of the construction limits will remain with DND. DND/CF is responsible for the Fire Safety Plan for the occupied portions of the building. The plan shall be submitted to DCC by the *Contractor* within 10 business days of award for approval by the Base Fire Chief prior to commencement of construction or demolition operations. A copy of the approved Fire Safety Plan shall be posted and maintained on site at all times during construction and the *Contractor* shall ensure all persons accessing the construction site are briefed and adhere to the requirements of the plan.

32. Reference DCL32 – General Conditions, GC 3.10.3 – **DELETE** “3.9.1 of GC3.9” and **INSERT** “3.10.1 of GC3.10”.
33. Reference DCL32 – General Conditions – **DELETE** “3.8.1 of GC3.8” and **INSERT** new 3.8.1.
 - « 3.8.1 To the extent to which they are available and consistent with proper economy and the expeditious carrying out of the *Work*, the *Contractor* should, in the performance of the *Work*, employ a reasonable number of persons who have been on active service with the Armed Forces of Canada and have been honourably discharged therefrom. »
34. To bid on an opportunity, a bidder must be registered on the Open Construction Source List used to tender the opportunity. If the legal name of the bidder does not appear on the Open Construction Source List, then DCC may consider their bid as being noncompliant. If you change the name of your company, it is therefore very important that you notify DCC of the change as well as consider making the change to your MERX account.
35. If you are forming a Joint Venture for the purpose of bidding on a contract, then at least one of the members of the JV must be registered on the Open Construction Source List used to tender this opportunity. If that is not the case, then your bid will be considered noncompliant.

End of Amendment No. 1



Form A – Indigenous Benefits Achievement Certification

Contractor Name: _____

DCC Project # : _____

DCC Contract # : _____

Capitalized and italicized terms not defined herein have the meaning respectively given to them in the General Conditions corresponding to this Indigenous Benefits Achievement Certification.

A.1 *Indigenous Business(es)* Participation

Report on own work forces done by the *Contractor* (if the *Contractor* is an *Indigenous Business*) and, if applicable, subcontracts entered into between the *Contractor* and subcontracted *Indigenous Business(es)* to perform the *Work*, or part thereof, under the *Contract* during the reportable time of period of __date__ to __date__. The table below shall be filled out and submitted by the *Contractor* with each progress claim made under the *Contract*.

	Name of <i>Indigenous Business</i>	Services or <i>Material</i> Supplied	Total Dollar Value of Services performed or <i>Material</i> Supplied
Total			

Field Definitions

1) Name of *Indigenous Business*

The name of the *Indigenous Business* performing the *Work*, or part thereof, under the *Contract* and pursuant to the *Indigenous Benefit Plan* during the reportable period. Provide the name as it appears on the *Indigenous Business Directory*.

2) Services or *Material* Supplied

A description of the services or *material* supplied by the *Indigenous Business*.

3) Total Dollar Value of Services Performed or *Material* Supplied

The total dollar value of own work forces done by the *Contractor* (if the *Contractor* is an *Indigenous Business*) and, if applicable, subcontract payments made by the *Contractor* to subcontracted *Indigenous Business(es)* performing the *Work*, or part thereof, under the *Contract* and pursuant to the *Indigenous Benefit Plan*, during the reportable period. This column must be summed up to provide the total dollar value of all services performed or *material* supplied by *Indigenous Business*, under the *Contract* and pursuant to the *Indigenous Benefit Plan*, during the reportable period.



INDIGENOUS BENEFITS ACHIEVEMENT CERTIFICATION:

Name and Title

Authorized Signatory of the *Contractor*

Date

The *Contractor* certifies that the information contained in this Indigenous Benefits Achievement Certification is true, accurate and complete as at the signature date identified above.

1 GENERAL

1.01 SUMMARY

- .1 Comply with requirements of this Section when performing following work:
 - .1 Break, cut, grind, sand, drill, scrape, vibrate or abrade non-friable asbestos containing materials using non-powered hand-held tools, and the material is wetted to control the spread of dust or fibres.
 - .2 Removing less than one square metre of drywall in which joint-filling compounds that are asbestos containing materials have been used.

1.02 RELATED REQUIREMENTS

- .1 Section 01 35 43 – Environmental Protection
- .2 Section 01 35 29.06 – Health and Safety Requirements
- .3 Section 02 82 00.02– Asbestos Abatement – Intermediate Precaution

1.03 DEFINITIONS

- .1 HEPA vacuum: High Efficiency Particulate Air filtered vacuum equipment with filter system capable of collecting and retaining fibres greater than 0.3 microns in any direction at 99.97% efficiency.
- .2 Amended Water: water with nonionic surfactant wetting agent added to reduce water tension to allow thorough wetting of fibres.
- .3 Asbestos-Containing Materials (ACMs): materials that contain 0.5 per cent or more asbestos by dry weight and are identified under Existing Conditions including fallen materials and settled dust.
- .4 Asbestos Work Area: area where work takes place which will, or may, disturb ACMs.
- .5 Authorized Visitors: the DCC Representative or designated representative [s], and representative [s] of regulatory agencies.
- .6 Friable material: means material that:
 - .1 When dry, can be crumbled, pulverized or powdered by hand pressure, or
 - .2 is crumbled, pulverized or powdered.
- .7 Non-Friable Material: material that when dry cannot be crumbled, pulverized or powdered by hand pressure.
- .8 Occupied Area: any area of the building or work site that is outside Asbestos Work Area.
- .9 Polyethylene: polyethylene sheeting or rip-proof polyethylene sheeting with tape along edges, around penetrating objects, over cuts and tears, and elsewhere as required to provide protection and isolation.
- .10 Sprayer: garden reservoir type sprayer or airless spray equipment capable of producing mist or fine spray. Must have appropriate capacity for work.

1.04 REFERENCE STANDARDS

- .1 Department of Justice Canada (Jus)
 - .1 Canadian Environmental Protection Act, 1999 (CEPA).
 - .2 SOR/86-304 Canada Occupational Health and Safety Regulations.
 - .3 SOR/2018-196 Prohibition of Asbestos and Products Containing Asbestos Regulations.
- .2 Transport Canada (TC)
 - .1 Transportation of Dangerous Goods Act, 1992 (TDGA).
- .3 Directorate Architecture and Engineering Services (DAES) Standard on the Management of Asbestos Containing Material (ACM) in DND Immovables, 01 October 2024.
- .4 Ontario Occupational Health and Safety Act. Revised Statutes of Ontario 1990, Chapter O.1
 - .1 Ontario Regulation 49009. Designated Substances.
 - .2 Ontario Regulation 278/05. Designated Substance – Asbestos on Construction Projects and in Buildings and Repair Operations.
- .5 Underwriters' Laboratories of Canada (ULC)

1.05 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit proof satisfactory to DCC Representative that suitable arrangements have been made to dispose of asbestos-containing waste in accordance with requirements of authority having jurisdiction. Ensure that landfill operator is fully aware of the hazardous nature of material being dumped, and proper method of disposal.
- .3 Submit proof of Contractor's Asbestos Liability Insurance.
- .4 Submit to DCC Representative necessary permits for transportation and disposal of asbestos-containing waste and proof that asbestos-containing waste has been received and properly disposed.
- .5 Submit to DCC that all workers performing the Asbestos removals have obtained the Asbestos Abatement Worker Training Program approved by the Ontario Ministry of Training, Colleges and Universities.
- .6 Submit proof that all asbestos workers and/or supervisor have received appropriate training and education by a competent person in the hazards of asbestos exposure, good personal hygiene and work practices while working in Asbestos Work Areas, and the use, cleaning and disposal of respirators and protective clothing.
- .7 Submit proof satisfactory to DCC Representative that employees have respirator fitting and testing. Workers must be fit tested (irritant smoke test) with respirator that is personally issued.

1.06 QUALITY ASSURANCE

- .1 Regulatory Requirements: comply with Federal, Provincial, and local requirements pertaining to asbestos, provided that in case of conflict among these requirements or with these specifications, more stringent requirement applies. Comply with regulations in effect at time Work is performed.

National Defence 8 Wing Trenton Project No: 500006750	ASBESTOS ABATEMENT – MINIMUM PRECAUTION	Section 02 82 00.01 Page 3 2026-06-26
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.2 Health and Safety:

- .1 Perform construction occupational health and safety in accordance with Section 01 35 29.06 – Health and Safety Requirements.
- .2 Safety Requirements: worker protection.
 - .1 Protective equipment and clothing to be worn by workers while in Asbestos Work Area include:
 - .1 Air purifying half-mask respirator with N-100, R-100 or P-100 particulate filter, personally issued to worker and marked as to efficiency and purpose, suitable for protection against asbestos and acceptable to Provincial Authority having jurisdiction. The respirator to be fitted so that there is an effective seal between the respirator and the worker's face, unless the respirator is equipped with a hood or helmet. The respirator to be cleaned, disinfected and inspected after use on each shift, or more often, if necessary, when issued for the exclusive use of one worker, or after each use when used by more than one worker. The respirator to have damaged or deteriorated parts replaced prior to being used by a worker; and, when not in use, to be stored in a convenient, clean and sanitary location. The employer to establish written procedures regarding the selection, use and care of respirators, and a copy of the procedures to be provided to and reviewed with each worker who is required to wear a respirator. A worker not to be assigned to an operation requiring the use of a respirator unless he or she is physically able to perform the operation while using the respirator.
 - .2 Disposable-type protective clothing that does not readily retain or permit penetration of asbestos fibres. Protective clothing to be provided by the employer and worn by every worker who enters the work area, and the protective clothing shall consist of a head covering and full body covering that fits snugly at the ankles, wrists and neck, in order to prevent asbestos fibres from reaching the garments and skin under the protective clothing to include suitable footwear, and to be repaired or replaced if torn.
 - .2 Eating, drinking, chewing, and smoking are not permitted in Asbestos Work Area.
 - .3 Before leaving Asbestos Work Area, the worker can decontaminate his or her protective clothing by using a vacuum equipped with a HEPA filter, or by damp wiping, before removing the protective clothing, or, if the protective clothing will not be reused, place it in a container for dust and waste. The container to be dust tight, suitable for asbestos waste, impervious to asbestos, identified as asbestos waste, cleaned with a damp cloth or a vacuum equipped with a HEPA filter immediately before removal from the work area, and removed from the work area frequently and at regular intervals.
 - .4 Facilities for washing hands and face shall be provided within or close to the Asbestos Work Area.
 - .5 Ensure workers wash hands and face when leaving Asbestos Work Area.
 - .6 Ensure that no person required to enter an Asbestos Work Area has facial hair that affects seal between respirator and face.
- .3 Visitor Protection:
 - .1 Provide approved respirators to Authorized Visitors to work areas.

National Defence 8 Wing Trenton Project No: 500006750	ASBESTOS ABATEMENT – MINIMUM PRECAUTION	Section 02 82 00.01 Page 4 2026-06-26
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- .2 Instruct Authorized Visitors the procedures to be followed in entering and exiting the work area.

1.07 WASTE MANAGEMENT AND DISPOSAL

- .1 Handle and dispose of hazardous materials in accordance with the CEPA, TDGA, Regional and Municipal regulations.
- .2 Waste management and disposal to be completed in accordance with Section 01 35 43 – Environmental Protection.
- .3 Disposal of asbestos waste generated by removal activities must comply with Federal, Provincial, Territorial and Municipal regulations. Dispose of asbestos waste in sealed double thickness [6] mils bags or leak proof drums. Label containers with appropriate warning labels.
- .4 Provide manifests describing and listing waste created. Transport containers by approved means to licensed landfill for burial.

1.08 EXISTING CONDITIONS

- .1 For additional reference information a copy of the Designated Substance and Hazardous Materials Survey, Building 52 – Hangar 10, prepared by Golder Associates Limited, dated August 2021, will be made available upon request after contract award.
- .2 The exterior cladding on bay doors, insulation present behind the exterior cladding, and interior wall panels have the potential to contain ACM. This is for general information only and is not necessarily representative of all locations of ACM on site.
- .3 Notify DCC Representative of friable material discovered during Work and not apparent from drawings, specifications, or report pertaining to Work. Do not disturb such material pending instructions from DCC Representative.

1.09 SCHEDULING

- .1 Not later than two days before beginning Work on this Project notify following in writing:
 - .1 Appropriate Regional or Zone Director of Medical Services Branch, Health Canada.
 - .2 Provincial Ministry of Labour.
 - .3 Disposal Authority.
- .2 Inform sub trades of presence of ACM identified in Existing Conditions.
- .3 Provide the DCC Representative copy of notifications prior to start of Work.
- .4 Hours of Work: perform work during normal business hours (0700 to 1600). Any work involving use of equipment that may cause major noise or vibration (such as sledge or jack hammer) will require 48 hours notice to occupants of the building.

1.10 PERSONNEL TRAINING

- .1 Before beginning Work, provide DCC Representative satisfactory proof that every worker has had instruction and training in hazards of asbestos exposure, in personal hygiene and work practices, and in use, cleaning, and disposal of respirators and protective clothing.
- .2 Instruction and training related to respirators includes, following minimum requirements:
 - .1 Fitting of equipment.

- .2 Inspection and maintenance of equipment.
- .3 Disinfecting of equipment.
- .4 Limitations of equipment.
- .3 Instruction and training must be provided by a competent, qualified person.
- .4 Supervisory personnel to complete required training.

2 PRODUCTS

2.01 MATERIALS

- .1 Drop Sheets:
 - .1 Polyethylene: 0.15 mm thick.
 - .2 FR polyethylene: 0.15 mm thick woven fibre reinforced fabric bonded both sides with polyethylene.
- .2 Wetting Agent: 50% polyoxyethylene ester and 50% polyoxyethylene ether mixed with water in a concentration to provide thorough wetting of asbestos-containing material.
- .3 Waste Containers: contain waste in two separate containers.
 - .1 Inner container: 0.15 mm thick sealable polyethylene waste bag.
 - .2 Outer container: sealable metal or fibre type where there are sharp objects included in waste material; otherwise, outer container may be sealable metal or fibre type or second 0.15 mm thick sealable polyethylene bag.
 - .3 Labelling requirements: affix pre-printed cautionary asbestos warning in both official languages that is visible when ready for removal to disposal site.
- .4 Glove-bag:
 - .1 Glove bag equipped with reversible double-pull double throw zipper on top to facilitate installation on pipes or ducts and progressive movement along pipe and with straps for sealing ends of bag around pipe.
 - .2 Once filled, bag cannot be reused and shall be disposed of as asbestos waste.
- .5 Slow - drying sealer: non-staining, clear, water - dispersible type that remains tacky on surface for at least 8 hours and designed for purpose of trapping residual asbestos fibres.
- .6 Tape: fibreglass - reinforced duct tape suitable for sealing polyethylene under both dry conditions and wet conditions using amended water.

3 EXECUTION

3.01 PROCEDURES

- .1 Do construction occupational health and safety in accordance with Section 01 35 29.06 – Health and Safety Requirements.

National Defence 8 Wing Trenton Project No: 500006750	ASBESTOS ABATEMENT – MINIMUM PRECAUTION	Section 02 82 00.01 Page 6 2026-06-26
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- .2 Before beginning Work, isolate Asbestos Work Area using, minimum, preprinted cautionary asbestos warning signs in both official languages that are visible at access routes to Asbestos Work Area.
 - .1 Remove visible dust from surfaces in the work area where dust is likely to be disturbed during course of work.
 - .2 Use HEPA vacuum or damp cloths where damp cleaning does not create a hazard and is otherwise appropriate.
 - .3 Do not use compressed air to clean up or remove dust from any surface.
- .3 Prevent spread of dust from Asbestos Work Area using measures appropriate to work to be done.
 - .1 Use FR polyethylene drop sheets over flooring such as carpeting that absorbs dust and over flooring in Asbestos Work Area where dust and contamination cannot otherwise be safely contained. Drop sheets are not to be reused.
- .4 Wet materials containing asbestos to be cut, ground, abraded, scraped, drilled, or otherwise disturbed unless wetting creates hazard or causes damage.
 - .1 Use garden reservoir type low - velocity fine - mist sprayer.
 - .2 Perform Work to reduce dust creation to lowest levels practicable.
 - .3 Work will be subject to visual inspection and air monitoring.
 - .4 Contamination of surrounding areas indicated by visual inspection or air monitoring will require complete enclosure and clean-up of affected areas.
- .5 Frequently and at regular intervals during Work and immediately on completion of work:
 - .1 Dust and waste to be cleaned up and removed using a vacuum equipped with a HEPA filter, or by damp mopping or wet sweeping, and placed in a waste container, and
 - .2 Drop sheets to be wetted and placed in a waste container as soon as practicable.
- .6 Cleanup:
 - .1 Place dust and asbestos containing waste in sealed dust-tight waste bags. Treat drop sheets and disposable protective clothing as asbestos waste; wet and fold these items to contain dust, and then place in plastic bags.
 - .2 Clean exterior of each waste-filled bag using damp cloths or HEPA vacuum and place in second clean waste bag immediately prior to removal from Asbestos Work Area.
 - .3 Seal waste bags and remove from site. Dispose of in accordance with requirements of Provincial and Federal Authority having jurisdiction. Supervise dumping and ensure that dump operator is fully aware of hazardous nature of material to be dumped and that the appropriate guidelines and regulations for asbestos disposal are followed. Copies of all manifests are to be provided to DCC Representative upon completion of the project.

National Defence 8 Wing Trenton Project No: 500006750	ASBESTOS ABATEMENT – MINIMUM PRECAUTION	Section 02 82 00.01 Page 7 2026-06-26
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- .4 Contractor will be paid 0% for any and all asbestos abatement work prior to submittal of manifest indicating the land fill has received the waste materials.
- .5 Perform final thorough clean-up of Work areas and adjacent areas affected by Work using HEPA vacuum.
- .7 Contractor will provide qualified services to perform inspection of Asbestos Work Area to confirm compliance with specification and governing authority requirements. Deviation from these requirements that have not been approved in writing by DCC Representative may result in Work stoppage, at no cost to Owner.
- .8 DCC Representative will inspect work for:
 - .1 Adherence to specific procedures and materials.
 - .2 Final cleanliness and completion.
 - .3 No additional costs will be allowed by Contractor for additional labour or materials required to provide specified performance level.
 - .4 Contractor shall retain and pay for ACM tests if required.

END OF SECTION

1 GENERAL

1.01 SUMMARY

- .1 Comply with the requirements of this section of the specifications when performing work in the presence of asbestos posing a moderate risk, in accordance with the glove bag procedure described in these specifications:
 - .1 Before the dismantling of the exterior cladding, insulation behind the exterior cladding, and the interior wall panels, samples must be taken to check for the presence of asbestos.
 - .1 Sampling of insulation shall be carried out in accordance with applicable regulatory requirements in Ontario, the Public Services and Procurement Canada (PSPC) Asbestos Management Standard, and per the Assistant Deputy Minister Infrastructure and Environment (ADMIE) Standard on the Management of Asbestos Containing Material in DND Immovables dated October 2024.
 - .2 If the results of the analysis of cladding, insulation and interior wall panels are negative for asbestos, no special measures related to working with asbestos will be required.
 - .3 In the event of positive asbestos results during the analysis of the insulation, the work will be carried out with intermediate precautions:
 - .1 Removing asbestos-containing insulation from pipes, ducts, or similar items using glove bags.

1.02 RELATED REQUIREMENTS

- .1 Section 01 35 43 – Environmental Protection
- .2 Section 01 35 29.06 – Health and Safety Requirements
- .3 Section 02 82 00.01 – Asbestos Abatement – Minimum Precautions

1.03 DEFINITIONS

- .1 Asbestos-containing materials: Materials that contain minimum 0.5%, by dry weight, asbestos, including fallen materials and settled dust.
- .2 Asbestos project monitor: The DCC Representative who will observe asbestos remediation activities to ensure the work is completed in accordance with the Contract Documents and local regulatory requirements.
- .3 Asbestos work area: Area where work takes place which may disturb asbestos-containing materials.
- .4 Authorized visitors: The DCC Representative and other engineers, consultants, or other regulatory agency representatives.
- .5 Friable material: Material that, when dry, can be crumbled, pulverized, or powdered by hand pressure, or material that is crumbled, pulverized, or powdered.

1.04 REFERENCE STANDARDS

- .1 ASTM International (ASTM):
 - .1 ASTM E1368-[23], Standard Practice for Visual Inspection of Asbestos Abatement Projects

- .2 Canadian General Standards Board (CGSB):
 - .1 CAN/CGSB 1.205 2003, Sealer for Application to Asbestos-Fibre-Releasing Materials
 - .2 CAN/CGSB-51.34-[M86], Vapour Barrier, Polyethylene Sheet for Use in Building Construction
- .3 Forest Stewardship Council (FSC):
 - .1 FSC-STD-01-001-[v5-3], FSC Principles and Criteria for Forest Stewardship
- .4 Green Seal (GS):
 - .1 GS-11-[21], Paints, Coatings, Stains, and Sealers
 - .2 GS-36-[13], Adhesives for Commercial Use
- .5 Institute of Environmental Sciences and Technology (IEST):
 - .1 IEST-RP-CC001[.7], HEPA and ULPA Filters
- .6 National Institute for Occupational Safety and Health (NIOSH) (U.S.):
 - .1 NIOSH Manual of Analytical Methods (NMAM), [fifth] edition [2020]
- .7 National Lumber Grades Authority (NLGA):
 - .1 Standard Grading Rules for Canadian Lumber (GR) [2017]
- .8 PEFC Canada:
 - .1 PEFC CAN ST 1001:[2025], Sustainable Forest Management
- .9 South Coast Air Quality Management District (SCAQMD):
 - .1 SCAQMD Rule 1113-[2016], Architectural Coatings
 - .2 SCAQMD Rule 1168-[2022], Adhesive and Sealant Applications
- .10 Sustainable Forestry Initiative (SFI):
 - .1 SFI [2022], Standards and Rules
- .11 Underwriters' Laboratories Inc. (UL):
 - .1 UL 2762-[2011], Standard for Sustainability for Adhesives
- .12 ULC Standards (ULC):
 - .1 CAN/ULC S710.1:[2019], Standard for Bead-Applied One Component Polyurethane Air Sealant Foam, Part 1: Material Specification

1.05 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit DCC Representative. in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product data: Product literature and data sheets, including product characteristics, performance criteria, physical sizes, finishes, WHMIS SDSs and limitations.
 - .1 Submit product data for:
 - .1 amended water
 - .2 asbestos warning signs

- .3 lockdown sealers / encapsulants
- .3 Special procedure submittals:
 - .1 Submit proof of acceptance of the notice of project from local regulatory authorities.
 - .2 Submit proof of asbestos liability insurance.
 - .3 Submit procedures for entering and decontaminating before leaving enclosures.
 - .4 Submit required permits for transportation and disposal of asbestos waste and proof asbestos waste has been received and properly disposed of.
- .4 Qualification statements:
 - .1 Submit proof asbestos workers and supervisors have received appropriate training and education, by a competent person, on the hazards of asbestos exposure, good personal hygiene, safe work practices in asbestos work areas, and the use, cleaning, and disposal of respirators and protective clothing.
 - .2 Fit test workers (irritant smoke test) with their personally issued respirators. Submit proof employees have completed respirator fitting and testing.

1.06 OCCUPATIONAL HEALTH AND SAFETY REQUIREMENTS

- .1 Comply with Section 01 35 29.06 – Health and Safety Requirements:
 - .1 File required advanced notice of project with, and receive notice of acceptance from Government of Ontario's Ministry of Labour inspector before beginning work of this section.
 - .2 Provide workers and authorized visitors with protective clothing and equipment appropriate for the operation types in accordance with regulatory requirements.
 - .1 Instruct authorized visitors in the use of protective clothing and equipment.
 - .3 Check people, before they enter asbestos work areas, to ensure they have no facial hair that could affect seal between respirator and face.
 - .4 Prohibit drinking, chewing, and smoking within asbestos work areas.
 - .5 Provide facilities for washing hands and faces near the asbestos work area.
 - .6 Instruct authorized visitors in required procedures for entering and exiting asbestos work areas.
 - .7 Comply with Owner requirements for lockout / tag out procedures when isolating electrical equipment or systems.

1.07 DELIVERY, STORAGE, AND HANDLING

- .1 Deliver, store, and handle materials in accordance with Section 01 61 00 - Common Product Requirements, and:
 - .1 Transport and store lockdown sealers / encapsulants between 5 °C and 40 °C.

1.08 SITE CONDITIONS

- .1 Existing conditions:
 - .1 For additional reference information a copy of the Designated Substance and Hazardous Materials Survey, Building 52 – Hangar 10, prepared by Golder Associates Limited, dated August 2021, will be made available upon request after contract award.
 - .2 The exterior cladding on bay doors, insulation present behind the exterior cladding, and interior wall panels have the potential to contain ACM. This is for general information only and is not necessarily representative of all locations of ACM on site.
 - .3 Notify DCC Representative of friable material discovered during Work and not apparent from drawings, specifications, or report pertaining to Work. Do not disturb such material pending instructions from DCC Representative.

2 PRODUCTS

2.01 MATERIALS

- .1 Amended water: Water with sufficient non-ionic surfactant (50% polyoxyethylene ester and 50% polyoxyethylene ether) or equivalent wetting agent to reduce water surface tension to increase penetration and wetting of fibres.
- .2 Asbestos waste bags: Dust-tight, sealable polyethylene marked as containing asbestos waste, minimum 0.15 mm thick.
- .3 Asbestos waste containers: Dust-tight, sealable containers, impervious to asbestos, and marked as containing asbestos waste.
 - .1 Performance/design criteria:
 - .1 Sufficient size to contain materials.
 - .2 Sufficient strength to support the weight of contained materials.
 - .2 Typical: Rigid high-density polyethylene (HDPE) type or second asbestos waste bag.
 - .3 For waste with sharp objects: Rigid high-density polyethylene (HDPE) type, puncture-proof.
- .4 Barrier materials:
 - .1 Sheet materials:
 - .1 For walls, ceilings, and fixed items within enclosures: To CAN/CGSB 51.34, polyethylene, minimum 150 µm thick.
 - .2 Enclosure floors: Polyethylene sheets, fibre reinforced, minimum 250 µm thick.
 - .2 Spray adhesive: Suitable for sealing barrier sheet materials in dry and wet conditions.
 - .3 Tape: Fibreglass-reinforced plastic duct tape suitable for sealing barrier sheet materials in dry and wet conditions.
 - .4 Low-pressure type foamed-in-place sealant: To CAN/ULC S710.1, straw-applied, semi-flexible soft, single-component polyurethane sealant.
- .5 Drop sheets: Polyethylene sheets, fibre reinforced to CAN/CGSB 51.34, polyethylene, minimum 150 µm thick.

- .6 Glove bags: Prefabricated, standard and fire-resistant polyethylene, minimum 250 µm thick.
 - .1 Features:
 - .1 Sleeves and gloves permanently sealed to the bag to allow workers to access and handle ACMs and maintain a sealed enclosure.
 - .2 Valves or openings to allow insertion of vacuum hoses and sprayer nozzles while maintaining the seal to the pipe, duct, or similar structure.
 - .3 Tool pouch with drain.
 - .4 Seamless bottom and means of sealing off the bag's lower portion.
 - .5 High-strength, reversible double-pull, double-throw zipper and removable straps with protective flaps, if the bag is to be moved during the removal operation.
 - .2 Performance/design criteria:
 - .1 Sufficient size to contain materials.
 - .2 Sufficient strength to support the weight of contained materials.
- .7 Lockdown sealer / encapsulant: To CAN/CGSB 1.205, Type 1 (penetrating), Class A (water-based), for spray application, remains tacky on surfaces for minimum 8 hours.

2.02 REMEDIATION EQUIPMENT

- .1 High efficiency particulate aerosol (HEPA) filters: Certified as minimum 99.97% efficient in collecting a 0.3 µm aerosol in accordance with IEST RP-CC001.
- .2 HEPA vacuums: HEPA-filtered, wet/dry type, with accessories adequate to perform removal and cleanup work.
- .3 Negative air units: Two-stage HEPA-filtered systems and accessories required to exhaust air to outside of building through secured locations.
- .4 Sprayers: Hand pump garden sprayers or airless spray equipment capable of producing low-velocity mist or fine spray.

3 EXECUTION

3.01 EXAMINATION

- .1 Verification of conditions:
 - .1 Verify substrate and project conditions in accordance with Section 01 71 00 - Examination and Preparation, and:
 - .1 Before starting work:
 - .1 Perform visual inspections in asbestos work areas, accompanied by the asbestos project monitor to identify and document existing contamination or other changes in site conditions in accordance with ASTM E1368.

- .2 Pre-remediation testing:
 - .1 HEPA filters:
 - .1 Test in accordance with regulatory requirements, but not less than:
 - .1 HEPA vacuums:
 - .1 Test when installed/fitted, immediately before use.
 - .2 Test before using outside of asbestos work areas.
 - .2 Negative air units:
 - .1 Test when installed/fitted, immediately before use.
 - .2 Test by dispersed oil particulate (DOP) methods or similar means acceptable to regulatory authorities.

3.02 PREPARATION

- .1 Post preprinted cautionary asbestos warning signs, in English in visible locations at access routes to asbestos work areas. Provide signs with large, clear, visible letters to indicate, a) there is an asbestos dust hazard, and (b) access to the asbestos work area is restricted to persons wearing protective clothing and equipment.
 - .1 Post signs in sufficient numbers and locations, to warn of hazards.
- .2 Isolate asbestos work areas before beginning work.
 - .1 Isolate asbestos work areas from the remainder of the building.
 - .2 Shut down and seal off ventilation systems. Conduct smoke tests to verify ventilation systems are airtight.
 - .3 Isolate electrical systems to remain energized in the asbestos work area, with ground fault interrupters. Coordinate electrical system isolation with the Owner. Use ground fault protected electrical services for electrical equipment used in the asbestos work area.
 - .1 Provide temporary lighting as necessary, complete with ground-fault protection, in accordance with Section 01 51 00 - Temporary Utilities.
 - .4 Barricade doors and other entrances into asbestos work areas in accordance with Section 01 56 00 - Temporary Barriers and Enclosures.

3.03 ENCLOSURES

- .1 Erect temporary enclosures to completely enclose and isolate asbestos work areas before beginning asbestos remediation.
- .2 Construction:
 - .1 Erect suitable framing on-centre, for temporary walls where necessary to facilitate attachment and support of sheet barrier materials. Seal joints between panels, and between panels and adjacent materials, with surface film forming type sealer.
 - .1 Erect enclosures from floor to underside of structure above.
 - .2 Cover floors within enclosures with barrier sheet materials. Seal overlapping sheeting edges with tape or spray adhesive. Seal sheeting edges to walls with tape.

- .3 Cover walls with enclosure sheeting. Seal sheeting edges with tape or spray adhesive.
- .4 Provide sufficient sealed, transparent windows in opaque enclosures to allow observation of the entire asbestos work area from outside the enclosure.
- .3 Maintenance:
 - .1 Keep enclosures in tidy condition.
 - .2 Keep enclosures airtight. Repair damage immediately upon discovery.
 - .3 Visually inspect enclosures at beginning of each work shift, end of each work shift, and at least once on days without work shifts.
- .4 Smoke test enclosure airtightness when directed by the asbestos project monitor.

3.04 HYGIENE MEASURES AND PROCEDURES

- .1 Workers shall perform safe practices when leaving asbestos work areas:
 - .1 Use wet wiping or HEPA vacuuming procedures to decontaminate protective clothing and equipment.
 - .2 Remove protective clothing and equipment, except for respirators. Store reusable contaminated items, dispose of disposable items as asbestos waste.
 - .1 Do not reuse disposable protective clothing or equipment.
 - .3 Rinse respirator face piece and remove the respirator, using hand- and face-washing facilities provided.
 - .1 Powered air purifying respirators: Keep filters dry. Use wet wiping procedures to clean filter units and power packs.
 - .2 Non-powered respirators: Thoroughly wash.
 - .1 Filter respirators: Soak filter cartridges and dispose of the filters as asbestos waste.
 - .4 Wash hands and face, using facilities provided.

3.05 GENERAL ASBESTOS REMEDIATION REQUIREMENTS

- .1 Supervision: Employ minimum one remediation supervisor per ten remediation workers to remain within asbestos work areas during disturbance, removal, or other handling of ACMs.
- .2 Use wet wiping or HEPA vacuuming procedures to remove visible dust from surfaces in the work area where dust is likely to be disturbed.
 - .1 Wet wiping procedures:
 - .1 Wet wipe with clean water and paper towels to remove any residue.
 - .2 Dispose of paper towels as asbestos waste.
 - .2 HEPA vacuuming procedures:
 - .1 Vacuum contaminated area in parallel passes, overlap each pass.
 - .2 Vacuum the area again, perpendicular to the first time, overlap each pass.

- .3 Using compressed air to clean up or remove dust from surfaces is not permitted.
- .3 Prevent dust and asbestos-containing materials from drying; keep damp with amended water.
- .4 Removal:
 - .1 Apply amended water to ACM surfaces with sprayer. Saturate ACMs sufficiently to wet them to substrate without excess dripping. Maintain saturation necessary to minimize asbestos fibre dispersion.
 - .2 Remove saturated ACMs in small sections. Pack ACMs in asbestos waste bags, as they are removed. Use wet wiping or HEPA vacuuming procedures to clean sealed asbestos waste bags and place in asbestos waste containers.
 - .3 Seal filled containers. Use wet wiping or HEPA vacuuming procedures to clean external surfaces immediately before removing from asbestos work areas.
- .5 Encapsulation:
 - .1 Encapsulate ACMs and where the asbestos project monitor provides written direction:
 - .1 Apply Type 1 lockdown sealer / encapsulant to penetrate existing sprayed asbestos surfaces uniformly to substrate.

3.06 GLOVE-BAG OPERATIONS

- .1 Examination:
 - .1 Inspect glove bags to confirm suitability for intended operations, including:
 - .1 condition of insulation or other ACMs
 - .2 substrate temperatures
 - .3 type of jacketing if any
 - .2 Inspect glove bags for damage or defects. Dispose of damaged or defective glove bags without using.
 - .3 Inspect insulation jacketing or coatings to remain for damage or defects. Obtain instructions from the asbestos project monitor.
- .2 Additional preparation:
 - .1 Temporarily disable mechanical ventilation systems serving the asbestos work area. Seal openings or voids between the asbestos work area and occupied areas, including ventilation ducts and windows.
 - .2 Cover surfaces below the work area with drop sheets.
 - .3 Place tools in glove bag tool pouch.
- .3 Insulation removal:
 - .1 Install glove bag around pipe and close zippers. Seal bag to pipe.
 - .1 Use fire-resistant glove bags for performing hot removals for temperatures above manufacturer's recommended limits, but not exceeding 65 °C.
 - .2 Insert sprayer nozzle into bag through provided valve or opening. Thoroughly wet inside of glove bag and pipe, duct, or similar items with amended water.

- .3 Place hands in gloves and use tools to remove insulation. Use caution to prevent puncturing glove bag. Arrange insulation in bag to obtain full capacity of bag.
 - .1 Inspect glove bags regularly during use. Discontinue use of damaged or defective glove bags. Thoroughly wet inside of damaged or defective glove bag, and contents, with amended water. Removed damaged or defective glove bag. Install new glove bag before proceeding.
- .4 After insulation removal:
 - .1 Use damp wiping and HEPA vacuuming procedures to clean tools.
 - .2 Thoroughly wet inside of glove bag and contents with amended water.
 - .3 Damp wipe exposed pipe, duct, or similar item; seal with lockdown sealer / encapsulant.
 - .4 Remove air from the bag with a HEPA vacuum. Place glove bag, with waste inside, in a suitable asbestos waste container.
 - .5 Clean asbestos work area in accordance with ASBESTOS WASTE MANAGEMENT in this section.

3.07 ASBESTOS WASTE MANAGEMENT

- .1 Clean up and remove dust and asbestos waste regularly. Use wet cleaning methods (wet wiping procedures, damp-mopping, or wet-sweeping) or HEPA vacuuming procedures.
- .2 Keep barrier sheet materials and surfaces clean. Use wet cleaning methods.
- .3 Final cleaning in and near asbestos work areas:
 - .1 Use HEPA vacuuming procedures if visible particles observed during cleanup.
 - .2 Place polyethylene seals, tape, cleaning material, disposable PPE, and other contaminated waste in asbestos waste bags.
- .4 Handling asbestos waste:
 - .1 Use PPE appropriate for the operation types.
 - .2 Place dust and asbestos waste in asbestos waste bags. Remove air from bags with HEPA vacuums. Seal bags by twisting tops tightly, folding over, and sealing with tape.
 - .1 Treat barrier sheet material and drop sheets as asbestos waste; wet with amended water, fold items to contain dust, and place in suitable asbestos waste bags.
 - .2 Treat disposable protective clothing and equipment as asbestos waste; wet with amended water, fold items to contain dust, and place in suitable asbestos waste bags.
 - .3 Use wet wiping or HEPA vacuuming procedures to clean drop sheet exteriors immediately before placing in suitable asbestos waste containers.

- .4 Use wet wiping or HEPA vacuuming procedures to clean exteriors of filled asbestos waste bags and seal in suitable asbestos waste containers. Use wet wiping or HEPA vacuuming procedures to clean exteriors of asbestos waste containers immediately before removal from asbestos work area.
 - .1 Use containers of sufficient size and strength to accommodate the weight and nature of the waste.
 - .2 Use containers free from punctures, tears, or leaks.
 - .3 Keep exterior surfaces of containers free from asbestos waste.
- .5 Asbestos waste transportation:
 - .1 Mark vehicles used to transport asbestos waste with easily legible, minimum 100 mm high letters that contrast with the background and read:
 - .1 "CAUTION";
 - .2 "CONTAINS ASBESTOS FIBRES";
 - .3 "Avoid Creating Dust and Spillage";
 - .4 "Asbestos May be Harmful To Your Health"; and
 - .5 "Wear Approved Protective Equipment".
 - .2 Transport asbestos waste by waste haulers with drivers trained to manage asbestos waste.
 - .1 Use waste hauler vehicles equipped with emergency spill cleanup equipment including, at minimum, shovels, brooms, wetting agents, asbestos waste bags, bag closures, and protective clothing and equipment.
 - .2 Transport asbestos waste, as directly as practicable, to waste disposal sites approved by regulatory authorities to accept and process asbestos waste. Disposal at waste transfer stations or other waste disposal sites is not acceptable.
 - .1 Transport asbestos waste in vehicles without other cargo types.
 - .2 Transport asbestos waste in non-compaction-type waste hauling vehicles.
 - .3 Non-enclosed vehicles: Secure asbestos waste and cover with suitable tarpaulins or nets.
 - .4 Transport asbestos waste contained in cardboard boxes inside enclosed vehicles.
 - .5 Bulk asbestos transportation: Transport asbestos waste by means of a waste management system subject to environmental compliance approval that specifically authorizes the transportation of asbestos waste in bulk.
 - .3 Seal asbestos waste that is loose, or contained in punctured, broken, or leaking packaging in suitable asbestos waste containers immediately upon discovery.
 - .4 Dispose of asbestos waste at waste disposal sites approved by regulatory authorities to accept and process asbestos waste.
 - .1 Notify waste disposal sites of anticipated arrival times and obtain agreement to accept asbestos waste.

- .2 Deposit asbestos waste at landfill site locations adapted for the purpose of receiving asbestos waste or otherwise suitable for that purpose.
- .3 Deposit asbestos waste under supervision of the waste disposal site operator, or a person designated by the operator for the purpose, who is not operating machinery or trucks involved in the operation.
- .4 Handle asbestos waste to prevent loose asbestos or punctured, broken, or leaking containers from being landfilled. Immediately seal loose asbestos or punctured, broken, or leaking containers in suitable asbestos waste containers.

3.08 SITE QUALITY CONTROL

.1 Site tests and inspections:

.1 Conduct visual inspections in accordance with ASTM E1368:

- .1 regularly as work progresses;
- .2 after completion of removals within each asbestos work area; and
- .3 after final cleaning of each asbestos work area.

.2 The asbestos project monitor will conduct visual inspections in accordance with ASTM E1368:

- .1 regularly as work progresses;
- .2 after completion of removals within each asbestos work area; and
- .3 after final cleaning of each asbestos work area.

.3 Air monitoring:

.1 The asbestos project monitor will take daily air samples outside near asbestos work area in accordance with local regulatory and Public Services and Procurement Canada (PSPC) requirements.

- .1 Schedule: From start of work of this section until final air clearance.

.2 Air sample analysis: To NMAM, Method 7400, phase contrast microscopy or equivalent.

- .1 Maximum asbestos fibre concentrations for work in progress: 0.05 fibres/cm³.

- .1 Non-conforming work: Stop work immediately, correct processes, and retest. Repeat as necessary to pass subsequent analyses.

- .2 Maximum asbestos fibre concentrations for final clearance: 0.01 fibres/cm³.

- .1 Non-conforming work: Analyze samples with transmission electron microscopy in accordance with NMAM, Method 7400, correct processes if necessary, and retest. Repeat as necessary to pass subsequent analyses.

.4 Reports will be distributed with reasonable promptness after completion of tests or inspections.

.2 Non-conforming work:

- .1 When contamination from asbestos work areas occurs, or is likely to occur, the asbestos project monitor may order work shutdown, erection of enclosures, and cleaning of affected areas, at no change to the Contract Amount.

3.09 ENCLOSURE REMOVAL

.1 After completion of asbestos remediation within enclosure:

- .1 Use HEPA vacuuming procedures and cleaning with amended water to wash down barrier sheet materials.
- .2 Apply Type 2 lockdown sealer / encapsulant to seal down invisible dust or fibres.
- .3 After final air sample clearance:
 - .1 Remove barrier wall sheets.
 - .2 Remove barrier floor sheets.
 - .3 Carefully fold sheets with asbestos-exposed side folded in.
 - .4 Dispose of barrier sheet materials as asbestos waste.
 - .5 Remove other enclosure materials from site.

END OF SECTION

Part 1 General

1.1 Summary

- .1 Comply with requirements of this Section when performing following Work:
 - .1 Removal of lead-containing paint using brush, roller or sponge on floor and walls, under Class 1 protocols Environmental Abatement Council of Canada (EACC).
 - .2 Removal of lead-containing paint with a chemical gel or paste and fibrous laminated cloth wrap on floor and walls, under Class 1 protocols (EACC).
- .2 All locations where paint is to be removed will be identified by a licensed abatement contractor prior to the start of abatement activities.
- .3 All abatement work is to be completed by licenced abatement contractor.
- .4 Related Requirements
 - .1 Section 01 35 43 – Environmental Protection
 - .2 Section 01 35 29.06 – Health and Safety Requirements
 - .3 Section 02 83 11 – Lead-Based Paint Abatement – Intermediate Precautions

1.2 Reference Standards

- .1 Department of Justice Canada
 - .1 Canadian Environmental Protection Act, 1999 (CEPA).
- .2 Health Canada
 - .1 Workplace Hazardous Materials Information System (WHMIS).
 - .1 Safety Data Sheets (SDS).
- .3 Human Resources and Social Development Canada (HRSDC)
 - .1 Canada Labour Code Part II, - SOR 86-304 - Occupational Health and Safety Regulations.
- .4 Transport Canada (TC)
 - .1 Transportation of Dangerous Goods Act, 1992 (TDGA).
- .5 United States Environmental Protection Agency (EPA)
 - .1 EPA 747-R-95-007-(1995), Sampling House Dust for Lead.
- .6 U.S. Department of Health and Human Services/Centers for Disease Control and Prevention/National Institute for Occupational Safety and Health (NIOSH)
 - .1 NIOSH 94-113 - NIOSH Manual of Analytical Methods (NMAM), 4th Edition (1994).
- .7 U.S. Department of Labour - Occupational Safety and Health Administration (OSHA) - Toxic and Hazardous Substances
 - .1 Lead in Construction Regulation – 29 CFR 1926.62-(1993).

- .8 Underwriters' Laboratories of Canada (ULC)
- .9 Province of Ontario
 - .1 Ontario Ministry of Labour
 - .1 Occupational Health and Safety Branch, Guideline Lead On Construction Projects, September 2004 (updated April 2011), and O. Reg. 490/09 respecting Designated Substances - Lead made under the Occupational Health and Safety Act, as amended by O. Reg. 148/12 and O. Reg. 149/12.
- .10 Environmental Abatement Contractors of Canada (EACC) – Lead Abatement Guideline, 2015.

1.3 Definitions

- .1 HEPA vacuum: High Efficiency Particulate Air filtered vacuum equipment with a filter system capable of collecting and retaining fibres greater than 0.3 microns in any direction at 99.97% efficiency.
- .2 Authorized Visitors: DCC Representative or designated representative[s].
- .3 Polyethylene: polyethylene sheeting or rip-proof polyethylene sheeting with tape along edges, around penetrating objects over cuts and tears, and elsewhere as required to provide protection and isolation. For protection of underlying surfaces from damage and to prevent lead dust entering in clean area.
- .4 Sprayer: garden reservoir type sprayer or airless spray equipment capable of producing mist or fine spray. Must be appropriate capacity for scope of work.
- .5 Action level: employee exposure, without regard to use of respirators, to airborne concentration of lead of 50 micrograms per cubic metre of air (50 ug/m³) calculated as 8-hour time-weighted average (TWA). Minimum precautions for lead abatement are based on airborne lead concentrations less than 0.05 milligrams per cubic metre of air for removal of lead-based paint by methods noted in paragraph 1.1.
- .6 Competent person: DCC Representative capable of identifying existing lead hazards in workplace taking corrective measures to eliminate them.
- .7 Lead dust: wipe sampling on vertical surfaces and/or horizontal surfaces, dust and debris is considered to be lead contaminated if it contains more than 40 micrograms of lead in dust per square foot.

1.4 Action and Informational Submittals

- .1 Provide submittals in accordance with Section 01 33 00 – Submittal Procedures.
- .2 Provide proof satisfactory to the DCC Representative that suitable arrangements have been made to dispose of lead-based paint waste in accordance with requirements of authority having jurisdiction.
- .3 Provide proof of Contractor's General and Environmental Liability Insurance.
- .4 Quality Control:
 - .1 Provide the DCC Representative necessary permits for transportation and disposal of lead-based paint waste and proof that lead based paint waste has been received and properly disposed of.
 - .2 Provide proof satisfactory to the DCC Representative that employees have had instruction on hazards of lead exposure, respirator use, dress, and aspects of work procedures and protective measures.

1.5 Quality Assurance

- .1 Regulatory Requirements: comply with Federal, Provincial and local requirements pertaining to lead paint, provided that in case of conflict among those requirements or with these specifications more stringent requirement applies. Comply with regulations in effect at time work is performed.
- .2 Health and Safety:
 - .1 Complete construction occupational health and safety in accordance with Section 01 35 29.06 – Health and Safety Requirements.
 - .2 Safety Requirements: worker and visitor protection.
 - .1 Protective equipment and clothing to be worn by workers and visitors in Work Area include:
 - .1 NIOSH approved respirator and equipped with replaceable HEPA filter cartridge with an assigned protection factor of 10, acceptable to Authority having jurisdiction. Suitable for type of lead and level of lead dust exposure. Provide sufficient amount of filter replacements.
 - .2 Half mask respirator: half-mask particulate respirator with N, R, or P-series filter, and 95, 99 or 100 % efficiency could be provided.
 - .2 Eating, drinking, chewing, and smoking are not permitted in work area.
 - .3 Ensure workers wash hands and face when leaving work area. Facilities for washing must be provided.
 - .4 Visitor Protection:
 - .1 Provide approved respirators to Authorized Visitors to work areas.
 - .2 Instruct Authorized Visitors the procedures to be followed in entering and exiting the work area.

1.6 Waste Management and Disposal

- .1 Handle and dispose of hazardous materials in accordance with CEPA, TDGA, Regional and Municipal regulations.
- .2 Waste management and disposal to be completed in accordance with Section 01 35 43 – Environmental Protection.
- .3 Disposal of lead waste generated by removal activities must comply with Federal, Provincial and Municipal regulations. Dispose of lead waste in sealed double thickness 0.15 mm thick bags or leak proof drums. Label containers with appropriate warning labels.
- .4 Provide manifests describing and listing waste created. Transport containers by approved means to licensed landfill for burial.

1.7 Existing Conditions

- .1 For additional reference information a copy of the Designated Substance and Hazardous Materials Survey, Building 52 – Hangar 10, prepared by Golder Associates Limited, dated August 2021, will be made available upon request after contract award.
- .2 Treat the following paint as lead paint: Orange-red paint present on fire safety highlights on walls and floors; traffic yellow paint, army green paint and safety yellow with army green paint present on floor; fluorescent red paint present on floor; yellow

trim ceramic tile glazing present on upper edge of north and south perimeter cinderblock walls of the hanger; and, grey-beige paint present on walls (on second floor). This is for general information only and is not necessarily representative of all locations of lead- containing materials on site.

- .3 Notify the DCC Representative of lead-based paint discovered during Work and not apparent from drawings, specifications, or report pertaining to Work. Do not disturb such material until instructed by the DCC Representative.

1.8 Scheduling

- .1 Not later than two days before beginning Work on this Project notify following in writing:
 - .1 Appropriate Regional or Zone Director of Medical Services Branch, Health Canada.
 - .2 Provincial Ministry of Labour.
 - .3 Disposal Authority.
- .2 Inform sub trades of presence of lead-containing materials identified in Existing Conditions.
- .3 Provide the DCC Representative copy of notifications prior to start of Work.
- .4 Hours of Work: perform work during normal business hours (0700 to 1600) Any work involving use of equipment that may cause major noise or vibration (such as sledge or jack hammer) will require 48 hours notice to occupants of the building.

1.9 Personnel Training

- .1 Provide the DCC Representative satisfactory proof that every worker has had instruction and training in hazards of lead exposure, in personal hygiene, in aspects of work procedures, and in use, cleaning, and disposal of respirators.
- .2 Instruction and training related to respirators includes, at minimum:
 - .1 Proper fitting of equipment.
 - .2 Inspection and maintenance of equipment.
 - .3 Disinfecting of equipment.
 - .4 Limitations of equipment.
- .3 Instruction and training must be provided by competent, qualified person.
- .4 Supervisory personnel to complete required training.

Part 2 Products

2.1 Materials

- .1 Polyethylene (0.15) mm thick unless otherwise specified; in sheet size to minimize joints.
- .2 Tape: fibreglass - reinforced duct tape suitable for sealing polyethylene under dry conditions and wet conditions using amended water.
- .3 Slow - drying sealer: non-staining, clear, water - dispersible type that remains tacky on surface for at least 8 hours and designed for purpose of trapping residual lead paint residue.
- .4 Lead waste containers: A type acceptable to dump operator with tightly fitting covers and 0.15 mm minimum thickness sealable polyethylene liners.

- .1 Label containers with pre-printed bilingual cautionary Warning Lead clearly visible when ready for removal to disposal site.

Part 3 Execution

3.1 Supervision

- .1 One Supervisor for every ten workers is required.
- .2 Supervisor must remain within work area during disturbance, removal, or handling of lead-based paints.

3.2 Preparation

- .1 Remove and store items to be salvaged or reused.
 - .1 Protect and wrap items and transport and store in area specified by the DCC Representative.
- .2 Work Area:
 - .1 Shut off and isolate HVAC system to prevent dust dispersal into other building areas. Conduct smoke tests to ensure duct work is airtight.
 - .2 Pre-clean fixed casework and equipment within work area, using HEPA vacuum and cover and seal with polyethylene sheeting and tape.
 - .3 Clean work area using HEPA vacuum. If not practicable, use wet cleaning method. Do not raise dust.
 - .4 Seal off openings with polyethylene sheeting and seal with tape.
 - .5 Protect surfaces within work areas with a covering of polyethylene sheets.
 - .6 Maintain emergency fire exits or establish alternatives satisfactory to Authority having jurisdiction.
 - .7 Where water application is required for wetting lead containing materials, provide temporary water supply appropriately sized for application of water as required.
 - .8 Provide electrical power and shut off [for operation of powered tools and equipment]. Provide 24-volt safety lighting and ground fault interrupter circuits on power source for electrical tools, in accordance with applicable CSA Standard. Ensure safe installation of electrical cables and equipment.
- .3 Do not start work until:
 - .1 Arrangements have been made for disposal of waste.
 - .2 Tools, equipment, and materials waste containers are on site.
 - .3 Arrangements have been made for building security.
 - .4 Notifications have been completed and preparatory steps have been taken.

3.3 Lead Abatement

- .1 Removal of identified lead-containing paint using methods described in Section 1.1.1.
- .2 Remove lead-based paint and place directly into sealable 0.15 mm thick plastic bags and place in labelled containers for transport.
- .3 Seal filled containers. Clean external stripped surfaces thoroughly by wet sponging. Remove from immediate working area to staging area. Clean external stripped surfaces thoroughly again by wet sponging. Wash containers thoroughly pending removal to

outside. Ensure containers are removed by workers who have entered from uncontaminated areas dressed in clean coveralls.

- .4 After completion of stripping work, wire brush and wet sponge surface from which lead-based paint has been removed to remove visible material. During this work keep surfaces wet.
- .5 After wire brushing and wet sponging to remove visible lead -based paint, and after encapsulating lead containing material impossible to remove, wet clean entire stripping work area, and equipment used in process. After inspection by the DCC Representative, apply continuous coat of slow drying sealer to surfaces of work area. Do not disturb work area for eight (8) hours -no entry, activity, ventilation, or disturbance during this period.

3.4 INSPECTION

- .1 Perform inspection to confirm compliance with specification and governing authority requirements. Deviations from these requirements not approved in writing by the DCC Representative will result in work stoppage, at no cost to Owner.
- .2 DCC Representative will inspect work for:
 - .1 Adherence to specific procedures and materials.
 - .2 Final cleanliness and completion.
 - .3 No additional costs will be allowed by Contractor for additional labour or materials required to provide specified performance level.
 - .4 Contractor shall retain and pay for lead tests if required.

3.5 LEAD SURFACE SAMPLING - WORK AREAS

- .1 Final lead surface sampling on areas subject to stripping to be conducted as follows:
 - .1 After work area has passed a visual inspection for cleanliness approved and accepted by the DCC Representative. Apply coat of lock-down agent to surfaces within enclosure, and appropriate setting period of 8 hours has passed, the DCC Representative may conduct lead wipe sampling.
 - .1 Final lead wipe sampling results from horizontal and vertical surfaces must show lead levels of less than 40 micrograms of lead in dust per square foot. Samples collected and analyzed in accordance with EPA 747-R-95-007.
 - .2 If wipe sampling results show levels of lead in excess of 40 micrograms per square foot, re-clean work area at contractor's expense and apply another acceptable coat of lock-down agent to surfaces.
 - .3 Repeat as necessary until lead levels are less than 40 micrograms per square foot.

3.6 FINAL CLEANUP

- .1 Following cleaning and when lead wipe surfaces sampling are below acceptable concentrations, proceed with final cleanup.
- .2 Remove polyethylene sheet by rolling it away from walls to centre of work area. Vacuum visible lead containing particles observed during cleanup, immediately, using HEPA vacuum.
- .3 Place polyethylene sheets, tape, cleaning material, clothing, and contaminated waste in plastic bags and sealed labelled waste containers for transport.

- .4 Conduct final check to ensure no dust or debris remains on surfaces as result of dismantling operations.

3.7

RE-ESTABLISHMENT OF OBJECTS AND SYSTEMS

- .1 Repair or replace objects damaged in course of work to their original state or better, as directed by the DCC Representative.

END OF SECTION

Part 1 General

1.1 Summary

- .1 Comply with requirements of this Section when performing following Work:
 - .1 Removal of lead-containing coatings or materials using a power tool with an effective dust collection system equipped with a HEPA filter on walls or other surfaces under Class 2A protocols (Environmental Abatement Contractors of Ontario (EACO)).
 - .2 Removal of lead-containing coatings or materials by scraping and sanding with non-powered hand tools on walls or ceilings, under Class 2A protocols (EACO).
- .2 All locations where paint is to be removed will be identified by a licensed abatement contractor prior to the start of abatement activities.
- .3 All abatement work is to be completed by licenced abatement contractor.
- .4 Related Requirements
 - .1 Section 01 35 43 – Environmental Protection
 - .2 Section 01 35 29.06 – Health and Safety Requirements
 - .3 Section 02 83 10 – Lead-based Paint Abatement – Minimum Precautions

1.2 Reference Standards

- .1 Department of Justice Canada
 - .1 Canadian Environmental Protection Act, 1999 (CEPA).
- .2 Health Canada
 - .1 Workplace Hazardous Materials Information System (WHMIS).
 - .1 Safety Data Sheets (SDS).
- .3 Human Resources and Social Development Canada (HRSDC)
 - .1 Canada Labour Code Part II, - SOR 86-304 - Occupational Health and Safety Regulations.
- .4 Transport Canada (TC)
 - .1 Transportation of Dangerous Goods Act, 1992 (TDGA).
- .5 United States Environmental Protection Agency (EPA)
 - .1 EPA 747-R-95-007-[1995], Sampling House Dust for Lead.
- .6 U.S. Department of Health and Human Services/Centers for Disease Control and Prevention/National Institute for Occupational Safety and Health (NIOSH)
 - .1 NIOSH 94-113 - NIOSH Manual of Analytical Methods (NMAM), 4th Edition (1994).

- .7 U.S. Department of Labour - Occupational Safety and Health Administration (OSHA) - Toxic and Hazardous Substances
 - .1 Lead in Construction Regulation - 29 CFR 1926.62-[1993].
- .8 Underwriters' Laboratories of Canada (ULC)
- .9 Province of Ontario
 - .1 Ontario Ministry of Labour
 - .1 Occupational Health and Safety Branch, Guideline Lead On Construction Projects, September 2004 (updated April 2011), and O. Reg. 490/09 respecting Designated Substances - Lead made under the Occupational Health and Safety Act, as amended by O. Reg. 148/12 and O. Reg. 149/12.
- .10 Environmental Abatement Contractors of Ontario (EACO) - Lead Abatement Guideline, 2014

1.3 Definitions

- .1 HEPA vacuum: High Efficiency Particulate Air filtered vacuum equipment with a filter system capable of collecting and retaining fibres greater than 0.3 microns in any direction at 99.97% efficiency.
- .2 Authorized Visitors: The DCC Representative or designated representative(s).
- .3 Polyethylene: polyethylene sheeting or rip-proof polyethylene sheeting with tape along edges, around penetrating objects over cuts and tears, and elsewhere as required to provide protection and isolation. For protection of underlying surfaces from damage and to prevent lead dust entering in clean area.
- .4 Sprayer: garden reservoir type sprayer or airless spray equipment capable of producing mist or fine spray. Must be appropriate capacity for scope of work.
- .5 Action level: employee exposure, without regard to use of respirators, to airborne concentration of lead of 50 micrograms per cubic metre of air ($50 \mu\text{g}/\text{m}^3$) calculated as 8-hour time-weighted average (TWA). Minimum precautions for lead abatement are based on airborne lead concentrations less than 0.05 milligrams per cubic metre of air for removal of lead based paint by methods noted in paragraph 1.1.
- .6 Competent person: The DCC Representative capable of identifying existing lead hazards in workplace taking corrective measures to eliminate them.
- .7 Lead dust: wipe sampling on vertical surfaces and/or horizontal surfaces, dust and debris is considered to be lead contaminated if it contains more than 40 micrograms of lead in dust per square foot.

1.4 Action and Informational Submittals

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Provide proof satisfactory to the DCC Representative that suitable arrangements have been made to dispose of lead-based paint waste in accordance with requirements of authority having jurisdiction.
- .3 Provide proof of Contractor's General and Environmental Liability Insurance.

.4 Quality Control:

- .1 Provide the DCC Representative necessary permits for transportation and disposal of lead-based paint waste and proof that lead based paint waste has been received and properly disposed of.
- .2 Provide proof satisfactory to the DCC Representative that employees have had instruction on hazards of lead exposure, respirator use, dress, and aspects of work procedures and protective measures.

1.5 Quality Assurance

- .1 Regulatory Requirements: comply with Federal, Provincial and local requirements pertaining to lead paint, provided that in case of conflict among those requirements or with these specifications more stringent requirement applies. Comply with regulations in effect at time work is performed.
- .2 Health and Safety:
 - .1 Complete construction occupational health and safety in accordance with Section 01 35 43 – Environmental Protection- as it relates to WHMIS and Waste Management/Disposal and 01 35 29.06 - Health and Safety Requirements.
 - .2 Safety Requirements: worker and visitor protection.
 - .1 Protective equipment and clothing to be worn by workers and visitors in Work Area include:
 - .1 NIOSH approved respirator and equipped with replaceable HEPA filter cartridge with an assigned protection factor of 10, acceptable to Authority having jurisdiction. Suitable for type of lead and level of lead dust exposure. Provide sufficient amount of filter replacements.
 - .2 Disposable type protective clothing that does not readily retain or permit skin contamination, consisting of full body covering including head covering with snug fitting cuffs at wrists, ankles, and neck.
 - .2 Requirements for Workers:
 - .1 Remove street clothes in clean change room and put on respirator with new filters or reusable filters, clean coveralls and head cover before entering Equipment and Access Rooms or Lead Work Area. Store street clothes, uncontaminated footwear, towels, and similar uncontaminated articles in clean change room.
 - .2 Remove gross contamination from clothing before leaving Lead Work Area. Place contaminated work suits in receptacles for disposal with other lead-contaminated materials. Leave reusable items except respirator in Equipment and Access Room. When not in use in Lead Work Area, store work footwear in Equipment and Access Room. Upon completion of lead abatement, dispose of footwear as contaminated waste or clean thoroughly inside and out using soap and water before removing from Lead Work Area or from Equipment and Access Room.
 - .3 Enter Unloading Room from outside dressed in clean coveralls to remove waste containers and equipment from Holding Room of Container and Equipment Decontamination Enclosure system. Workers not to use this system as means to leave or enter Lead

Work Area.

- .3 Eating, drinking, chewing, and smoking are not permitted in work area.
- .4 Ensure workers are fully protected with respirators and protective clothing during preparation of system of enclosures before commencing actual lead abatement.
- .5 Ensure workers wash hands and face when leaving work area. Facilities for washing shall be provided by the abatement contractor.
- .6 Provide and post in Clean Change Room and in Equipment Access Room the procedure described in this section, in both official languages.
- .7 Ensure no person required to enter Lead Work Area has facial hair that affects seal between respirator and face.
- .8 Visitor Protection:
 - .1 Provide protective clothing and approved respirators to Authorized Visitors to work areas.
 - .2 Instruct Authorized Visitors in use of protective clothing, respirators and procedures.
 - .3 Instruct Authorized Visitors the procedures to be followed when entering and exiting the work area.

1.6 Waste Management and Disposal

- .1 Handle and dispose of hazardous materials in accordance with CEPA, TDGA, Regional and Municipal regulations.
- .2 Waste management and disposal to be completed in accordance with Section 01 35 43 – Environmental Protection.
- .3 Disposal of lead waste generated by removal activities must comply with Federal, Provincial and Municipal regulations. Dispose of lead waste in sealed double thickness 0.15 mm thick bags or leak proof drums. Label containers with appropriate warning labels.
- .4 Provide manifests describing and listing waste created. Transport containers by approved means to licensed landfill for burial.

1.7 Existing Conditions

- .1 For additional reference information a copy of the Designated Substance and Hazardous Materials Survey, Building 52 – Hangar 10, prepared by Golder Associates Limited, dated August 2021, will be made available upon request after contract award.
- .2 Treat the following paint as lead paint: Orange-red paint present on fire safety highlights on walls and floors; traffic yellow paint, army green paint and safety yellow with army green paint present on floor; fluorescent red paint present on floor; yellow trim ceramic tile glazing present on upper edge of north and south perimeter cinderblock walls of the hanger; and, grey-beige paint present on walls (on second floor). This is for general information only and is not necessarily representative of all locations of lead- containing materials on site.
- .3 Notify the DCC Representative of lead-based paint discovered during Work and not apparent from drawings, specifications, or report pertaining to Work. Do not disturb such material until instructed by the DCC Representative.

1.8 Scheduling

- .1 Not later than two days before beginning Work on this Project notify following in writing:
 - .1 Appropriate Regional or Zone Director of Medical Services Branch, Health Canada.
 - .2 Provincial Ministry of Labour.
 - .3 Disposal Authority.
- .2 Inform sub trades of presence of lead-containing materials identified in Existing Conditions.
- .3 Provide the DCC Representative copy of notifications prior to start of Work.
- .4 Hours of Work: perform work during normal business hours (0700 to 1600). Any work involving use of equipment that may cause major noise or vibration (such as sledge or jack hammer) will require 48 hours notice to tenants of the building.

1.9 Personnel Training

- .1 Provide the DCC Representative satisfactory proof that every worker has had instruction and training in hazards of lead exposure, in personal hygiene, in aspects of work procedures, and in use, cleaning, and disposal of respirators.
- .2 Instruction and training related to respirators includes, at minimum:
 - .1 Proper fitting of equipment.
 - .2 Inspection and maintenance of equipment.
 - .3 Disinfecting of equipment.
 - .4 Limitations of equipment.
- .3 Instruction and training must be provided by competent, qualified person.
- .4 Supervisory personnel to complete required training.

Part 2 Products

2.1 Materials

- .1 Polyethylene (0.15) mm thick unless otherwise specified; in sheet size to minimize joints.
- .2 Flame-resistant polyethylene: To [[CAN/ULC-S109] [NFPA 701, method 2]], minimum [0.15] mm thick woven fibre reinforced fabric bonded on both sides with polyethylene.
- .3 Tape: fibreglass - reinforced duct tape suitable for sealing polyethylene under dry conditions and wet conditions using amended water.
- .4 Slow - drying sealer: non-staining, clear, water - dispersible type that remains tacky on surface for at least 8 hours and designed for purpose of trapping residual lead paint residue.
- .5 Lead waste containers: A type acceptable to dump operator with tightly fitting covers and 0.15 mm minimum thickness sealable polyethylene liners.
 - .1 Label containers with pre-printed bilingual cautionary Warning Lead clearly visible when ready for removal to disposal site.

Part 3 Execution

3.1 Supervision

- .1 Supervisor must remain within work area during disturbance, removal, or handling of lead -based paints.

3.2 Preparation

- .1 Remove and store items to be salvaged or reused.
 - .1 Protect and wrap items and transport and store in area specified by the DCC Representative.
- .2 Work Area:
 - .1 Shut off and isolate HVAC system to prevent dust dispersal into other building areas. Conduct smoke tests to ensure duct work is airtight.
 - .2 Pre-clean fixed casework and equipment within work area, using HEPA vacuum and cover and seal with polyethylene sheeting and tape.
 - .3 Clean work area using HEPA vacuum. If not practicable, use wet cleaning method. Do not raise dust.
 - .4 Seal off openings with flame-resistant polyethylene sheeting and seal with tape.
 - .5 Protect surfaces within work areas with a covering of polyethylene sheets.
 - .6 Build airlocks at entrance and exits from Lead Work Areas to ensure one curtained doorway is always closed off when workers enter or exit a Lead Work Area.
 - .7 At point of access to Lead Work Areas, install warning signs in both official languages in upper case, Helvetica Medium letters, reading as follows (number in parentheses indicates front size to be used):
 - 1. CAUTION LEAD HAZARD AREA (25 mm).
 - 2. NO UNAUTHORIZED ENTRY (19 mm).
 - 3. WEAR ASSIGNED PROTECTIVE EQUIPMENT AND RESPIRATOR (19 mm).
 - 4. BREATHING LEAD CONTAMINATED DUST CAUSES SERIOUS BODILY HARM (7 mm).
 - .8 Maintain emergency fire exits or establish alternatives satisfactory to Authority having jurisdiction.
 - .9 Where water application is required for wetting lead containing materials, provide temporary water supply appropriately sized for application of water as required.
 - .10 Provide electrical power and shut off (for operation of powered tools and equipment). Provide 24 volt safety lighting and ground fault interrupter circuits on power source for electrical tools, in accordance with applicable CSA Standard. Ensure safe installation of electrical cables and equipment.
- .3 Worker Decontamination Enclosure System:
 - .1 Includes Equipment and Access Room and Clean Room, as follows:
 - 1. Equipment and Access Room: Construct between exit and Lead Work Areas, with two curtained doorways, one to the rest of suite, and one to Lead Work Area. Install temporary waste receptor and temporary storage facilities for workers' shoes and protective clothing to be re-worn in Lead Work Areas. Build large enough to accommodate specified facilities, equipment needed, and at least one worker allowing sufficient space to change comfortably.

2. Clean Room: Construct with curtained doorway to outside of enclosures. Provide temporary lockers or hangers and hooks for workers' street clothes and personal belongings. Provide temporary storage for clean protective clothing and respiratory equipment. Install mirror to permit workers to fit respiratory equipment properly.
- .4 Construction of Decontamination Enclosures:
 - .1 Construct framing for enclosures or use existing rooms. Line enclosure with polyethylene sheeting and seal with tape, apply two layers of flame-resistant polyethylene on floor.
 - .2 Construct curtain doorways between enclosures so when people move through or waste containers and equipment are moved through doorway, one of two closures comprising doorway always remains closed.
- .5 Separation of Lead Work Areas from Occupied Areas:
 - .1 Barriers between Lead Work Area and occupied area to be constructed as follows:
 1. Construct enclosure with wood/metal stud framing, cover with polyethylene sheeting and seal with tape. Apply minimum [9.5]-mm nominal thick plywood over polyethylene sheeting. Seal plywood joints and between adjacent materials with surface film forming sealer to create airtight barrier.
 2. Cover plywood with polyethylene sheeting and seal joints with duct tape.
- .6 Maintenance of Enclosures:
 - .1 Maintain enclosures in clean and tidy condition.
 - .2 Visually inspect enclosures at beginning of each Working Day.
 - .3 Ensure barriers and polyethylene linings are effectively sealed and taped. Repair damaged barriers and remedy defects immediately.
 - .4 Use smoke test method to test effectiveness of barriers when directed by DCC Representative.
 - .5 Maintain a log of maintenance inspections. Make available for viewing by DCC Representative upon request.

3.3 Lead Abatement

- .1 Removal of identified lead-containing paint as identified in Section 1.1.1.
- .2 Remove lead-based paint and place directly into sealable 0.15 mm thick plastic bags and place in labelled containers for transport.
- .3 Seal filled containers. Clean external stripped surfaces thoroughly by wet sponging. Remove from immediate work area to staging area. Clean external stripped surfaces thoroughly again by wet sponging. Wash containers thoroughly pending removal to outside. Ensure enclosures are removed by workers who have entered from uncontaminated areas dressed in clean coveralls.
- .4 After completion of stripping work, wire brush and wet sponge surface from which lead-based paint has been removed to remove visible material. During this work keep surfaces wet.
- .5 After wire brushing and wet sponging has been completed, and after encapsulating any

paint that could not be removed, wet clean entire stripping area and equipment used in the process. After inspection by the DCC Representative, apply continuous coat of slow drying sealer to surfaces of work area. Do not disturb work area for eight (8) hours – no entry, activity, ventilation or disturbance during this period.

3.4 INSPECTION

- .1 Perform inspection to confirm compliance with specification and governing authority requirements. Deviations from these requirements not approved in writing by the DCC Representative will result in work stoppage, at no cost to Owner.
- .2 The DCC Representative will inspect work for:
 - .1 Adherence to specific procedures and materials.
 - .2 Final cleanliness and completion.
- .3 No additional costs will be allowed by Contractor for additional labour or materials required to provide specified performance level.
- .4 Contractor shall retain and pay for lead tests if required.

3.5 LEAD SURFACE SAMPLING – WORK AREAS

- .1 After work area has passed a final visual inspection for cleanliness approved and accepted by the DCC Representative. Apply coat of lock-down agent to surfaces within enclosure, and appropriate settling period of 8 hours has passed, the DCC Representative may conduct lead wipe sampling.
 - .1 Final lead wipe sampling results from horizontal and vertical must show lead levels of less than 40 micrograms of lead in dust per square foot. Samples collected and analyzed in accordance with EPA 747-R-95-007.
 - .2 If wipe sampling results show levels of lead in excess of 40 micrograms per square foot, re-clean work areas at contractor's expense and apply another acceptable coat of lock-down agent.
 - .3 Repeat as necessary until lead levels are less than 40 micrograms per square foot.

3.6 FINAL CLEANUP

- .1 Following passing inspection from the DCC Representative, proceed with final cleanup.
- .2 Remove polyethylene sheet by rolling it away from walls to centre of work area. Vacuum visible lead containing particles observed during cleanup, immediately, using HEPA vacuum.
- .3 Place used polyethylene sheets, tape, cleaning material, clothing, and contaminated waste in plastic bags and sealed labelled waste containers for transport.
- .4 Clean Lead Work Areas, Equipment and Access Room, and other contaminated enclosures.
- .5 Clean sealed waste containers and equipment used in work and remove from Lead Work Areas via Container and Equipment Decontamination Enclosure Systems, at appropriate time in cleaning sequence.
- .6 Conduct final check to ensure no dust or debris remains on surfaces as result of dismantling operations.

3.7 RE-ESTABLISHMENT OF OBJECTS AND SYSTEMS

- .1 Repair or replace objects damaged in course of work to their original state or better, as directed by the DCC Representative.

END OF SECTION



SECURITY REQUIREMENTS CHECK LIST (SRCL)

LISTE DE VÉRIFICATION DES EXIGENCES RELATIVES À LA SÉCURITÉ (LVERS)

PART A - CONTRACT INFORMATION / PARTIE A - INFORMATION CONTRACTUELLE

1. Originating Government Department or Organization / Ministère ou organisme gouvernemental d'origine DND		2. Branch or Directorate / Direction générale ou Direction Real Property Operations Trenton Detachment	
3. a) Subcontract Number / Numéro du contrat de sous-traitance		3. b) Name and Address of Subcontractor / Nom et adresse du sous-traitant	
4. Brief Description of Work / Brève description du travail Construction of a new below grade water reservoir and a pre-engineered pump house building that contains pumps and accessories to serve the fire suppression system in HGR 10 (B052). Reservoir and building will be located on the North side of HGR 10 adjacent to the Glycol storage building (B667). Water, electrical, mechanical, civil, structural, geotechnical, environmental and communication services are part of this contract. The area of work is inside the restricted area of CFB Trenton.			
5. a) Will the supplier require access to Controlled Goods? Le fournisseur aura-t-il accès à des marchandises contrôlées?		☒ Yes Oui	☐ No Non
5. b) Will the supplier require access to unclassified military technical data subject to the provisions of the Technical Data Control Regulations? Le fournisseur aura-t-il accès à des données techniques militaires non classifiées qui sont assujetties aux dispositions du Règlement sur le contrôle des données techniques?		☒ Yes Oui	☐ No Non
6. Indicate the type of access required / Indiquer le type d'accès requis			
6. a) Will the supplier and its employees require access to PROTECTED and/or CLASSIFIED information or assets? Le fournisseur ainsi que les employés auront-ils accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS? (Specify the level of access using the chart in Question 7. c) (Préciser le niveau d'accès en utilisant le tableau qui se trouve à la question 7. c)		☒ Yes Oui	☐ No Non
6. b) Will the supplier and its employees (e.g. cleaners, maintenance personnel) require access to restricted access areas? No access to PROTECTED and/or CLASSIFIED information or assets is permitted. Le fournisseur et ses employés (p. ex. nettoyeurs, personnel d'entretien) auront-ils accès à des zones d'accès restreintes? L'accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS n'est pas autorisé.		☐ Yes Oui	☒ No Non
6. c) Is this a commercial courier or delivery requirement with no overnight storage? S'agit-il d'un contrat de messagerie ou de livraison commerciale sans entreposage de nuit?		☒ Yes Oui	☐ No Non
7. a) Indicate the type of information that the supplier will be required to access / Indiquer le type d'information auquel le fournisseur devra avoir accès			
Canada ☐		NATO / OTAN ☐	Foreign / Étranger ☐
7. b) Release restrictions / Restrictions relatives à la diffusion			
No release restrictions Aucune restriction relative à la diffusion ☐		All NATO countries Tous les pays de l'OTAN ☐	No release restrictions Aucune restriction relative à la diffusion ☐
Not releasable À ne pas diffuser ☐			
Restricted to: / Limité à : ☐		Restricted to: / Limité à : ☐	Restricted to: / Limité à : ☐
Specify country(ies): / Préciser le(s) pays :		Specify country(ies): / Préciser le(s) pays :	Specify country(ies): / Préciser le(s) pays :
7. c) Level of information / Niveau d'information			
PROTECTED A PROTÉGÉ A ☐		NATO UNCLASSIFIED NATO NON CLASSIFIÉ ☐	PROTECTED A PROTÉGÉ A ☐
PROTECTED B PROTÉGÉ B ☐		NATO RESTRICTED NATO DIFFUSION RESTREINTE ☐	PROTECTED B PROTÉGÉ B ☐
PROTECTED C PROTÉGÉ C ☐		NATO CONFIDENTIAL NATO CONFIDENTIEL ☐	PROTECTED C PROTÉGÉ C ☐
CONFIDENTIAL CONFIDENTIEL ☐		NATO SECRET NATO SECRET ☐	CONFIDENTIAL CONFIDENTIEL ☐
SECRET SECRET ☐		COSMIC TOP SECRET COSMIC TRÈS SECRET ☐	SECRET SECRET ☐
TOP SECRET TRÈS SECRET ☐			TOP SECRET TRÈS SECRET ☐
TOP SECRET (SIGINT) TRÈS SECRET (SIGINT) ☐			TOP SECRET (SIGINT) TRÈS SECRET (SIGINT) ☐



PART A (continued) / PARTIE A (suite)

8. Will the supplier require access to PROTECTED and/or CLASSIFIED COMSEC information or assets?
Le fournisseur aura-t-il accès à des renseignements ou à des biens COMSEC désignés PROTÉGÉS et/ou CLASSIFIÉS? ☒ No ☐ Yes
Non Oui
If Yes, indicate the level of sensitivity:
Dans l'affirmative, indiquer le niveau de sensibilité :
9. Will the supplier require access to extremely sensitive INFOSEC information or assets?
Le fournisseur aura-t-il accès à des renseignements ou à des biens INFOSEC de nature extrêmement délicate? ☒ No ☐ Yes
Non Oui
- Short Title(s) of material / Titre(s) abrégé(s) du matériel :
Document Number / Numéro du document :

PART B - PERSONNEL (SUPPLIER) / PARTIE B - PERSONNEL (FOURNISSEUR)

10. a) Personnel security screening level required / Niveau de contrôle de la sécurité du personnel requis
- | | | | |
|---|---|---|--|
| ☒ RELIABILITY STATUS
COTE DE FIABILITÉ | ☐ CONFIDENTIAL
CONFIDENTIEL | ☐ SECRET
SECRET | ☐ TOP SECRET
TRÈS SECRET |
| ☐ TOP SECRET- SIGINT
TRÈS SECRET - SIGINT | ☐ NATO CONFIDENTIAL
NATO CONFIDENTIEL | ☐ NATO SECRET
NATO SECRET | ☐ COSMIC TOP SECRET
COSMIC TRÈS SECRET |
| ☐ SITE ACCESS
ACCÈS AUX EMPLACEMENTS | | | |
- Special comments:
Commentaires spéciaux : Unscreened personnel may be used in non operational and public access areas
- NOTE: If multiple levels of screening are identified, a Security Classification Guide must be provided.
REMARQUE : Si plusieurs niveaux de contrôle de sécurité sont requis, un guide de classification de la sécurité doit être fourni.

10. b) May unscreened personnel be used for portions of the work?
Du personnel sans autorisation sécuritaire peut-il se voir confier des parties du travail? ☐ No ☒ Yes
Non Oui
If Yes, will unscreened personnel be escorted?
Dans l'affirmative, le personnel en question sera-t-il escorté? ☒ No ☐ Yes
Non Oui

PART C - SAFEGUARDS (SUPPLIER) / PARTIE C - MESURES DE PROTECTION (FOURNISSEUR)

INFORMATION / ASSETS / RENSEIGNEMENTS / BIENS

11. a) Will the supplier be required to receive and store PROTECTED and/or CLASSIFIED information or assets on its site or premises?
Le fournisseur sera-t-il tenu de recevoir et d'entreposer sur place des renseignements ou des biens PROTÉGÉS et/ou CLASSIFIÉS? ☒ No ☐ Yes
Non Oui
11. b) Will the supplier be required to safeguard COMSEC information or assets?
Le fournisseur sera-t-il tenu de protéger des renseignements ou des biens COMSEC? ☒ No ☐ Yes
Non Oui

PRODUCTION

11. c) Will the production (manufacture, and/or repair and/or modification) of PROTECTED and/or CLASSIFIED material or equipment occur at the supplier's site or premises?
Les installations du fournisseur serviront-elles à la production (fabrication et/ou réparation et/ou modification) de matériel PROTÉGÉ et/ou CLASSIFIÉ? ☒ No ☐ Yes
Non Oui

INFORMATION TECHNOLOGY (IT) MEDIA / SUPPORT RELATIF À LA TECHNOLOGIE DE L'INFORMATION (TI)

11. d) Will the supplier be required to use its IT systems to electronically process, produce or store PROTECTED and/or CLASSIFIED information or data?
Le fournisseur sera-t-il tenu d'utiliser ses propres systèmes informatiques pour traiter, produire ou stocker électroniquement des renseignements ou des données PROTÉGÉS et/ou CLASSIFIÉS? ☒ No ☐ Yes
Non Oui
11. e) Will there be an electronic link between the supplier's IT systems and the government department or agency?
Disposera-t-on d'un lien électronique entre le système informatique du fournisseur et celui du ministère ou de l'agence gouvernementale? ☒ No ☐ Yes
Non Oui



PART C - (continued) / PARTIE C - (suite)

For users completing the form **manually** use the summary chart below to indicate the category(ies) and level(s) of safeguarding required at the supplier's site(s) or premises.

Les utilisateurs qui remplissent le formulaire **manuellement** doivent utiliser le tableau récapitulatif ci-dessous pour indiquer, pour chaque catégorie, les niveaux de sauvegarde requis aux installations du fournisseur.

For users completing the form **online** (via the Internet), the summary chart is automatically populated by your responses to previous questions.

Dans le cas des utilisateurs qui remplissent le formulaire **en ligne** (par Internet), les réponses aux questions précédentes sont automatiquement saisies dans le tableau récapitulatif.

SUMMARY CHART / TABLEAU RÉCAPITULATIF

Category Catégorie	PROTECTED PROTÉGÉ			CLASSIFIED CLASSIFIÉ			NATO				COMSEC					
	A	B	C	CONFIDENTIAL CONFIDENTIEL	SECRET	TOP SECRET TRÈS SECRET	NATO RESTRICTED NATO DIFFUSION RESTREINTE	NATO CONFIDENTIAL NATO CONFIDENTIEL	NATO SECRET	COSMIC TOP SECRET COSMIC TRÈS SECRET	PROTECTED PROTÉGÉ			CONFIDENTIAL	SECRET	TOP SECRET TRES SECRET
											A	B	C			
Information / Assets Renseignements / Biens																
Production																
IT Media / Support TI																
IT Link / Lien électronique																

12. a) Is the description of the work contained within this SRCL PROTECTED and/or CLASSIFIED?
La description du travail visé par la présente LVERS est-elle de nature PROTÉGÉE et/ou CLASSIFIÉE?

☒ No
Non

☐ Yes
Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification".

Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire.

12. b) Will the documentation attached to this SRCL be PROTECTED and/or CLASSIFIED?
La documentation associée à la présente LVERS sera-t-elle PROTÉGÉE et/ou CLASSIFIÉE?

☒ No
Non

☐ Yes
Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification" and indicate with attachments (e.g. SECRET with Attachments).

Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire et indiquer qu'il y a des pièces jointes (p. ex. SECRET avec des pièces jointes).



PART D - AUTHORIZATION / PARTIE D - AUTORISATION

13. Organization Project Authority / Chargé de projet de l'organisme

Name (print) - Nom (en lettres moulées) Steve Chinnatamby	Title - Titre Engineering Officer	Signature CHINNATAMBY, STEVE 636 Digitally signed by CHINNATAMBY, STEVE 636 Date: 2025.11.14 16:31:43 -05'00'	
Telephone No. - N° de téléphone 613 392 2811 Ext. 3718	Facsimile No. - N° de télécopieur	E-mail address - Adresse courriel Steve.Chinnatamby@forces.gc.ca	Date 14th. November 2025

14. Organization Security Authority / Responsable de la sécurité de l'organisme

Name (print) - Nom (en lettres moulées) Sasa Medjovic	Title - Titre Senior security analyst	Signature MEDJOVIC SASHA 234 Digitally signed by MEDJOVIC, SASHA 234 DN: C=CA, O=gc, OU=dnd-mdn, OU=PERSONNEL, OU=INTERN, CN= MEDJOVIC, SASHA 234 Reason: I am the author of this document Location: Date: 2025.11.19 12:48:17-05'00' Foxit PDF Editor Version: 2025.2.1	
Telephone No. - N° de téléphone 613-996-0286	Facsimile No. - N° de télécopieur	E-mail address - Adresse courriel sasa.medjovic@forces.gc.ca	Date

15. Are there additional instructions (e.g. Security Guide, Security Classification Guide) attached? Des instructions supplémentaires (p. ex. Guide de sécurité, Guide de classification de la sécurité) sont-elles jointes?	☒ No Non	☐ Yes Oui
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16. Procurement Officer / Agent d'approvisionnement

Name (print) - Nom (en lettres moulées)	Title - Titre UNCLASSIFIED - NON CLASSIFIÉ	Signature Adrian Campsall cn=Adrian Campsall, o=Defence Construction Canada, ou=Contract Services, email=adrian.campsall@dcc-cdc.gc.ca, c=CA 2026.06.10 10:10:59 -04'00'	
Telephone No. - N° de téléphone	Facsimile No. - N° de télécopieur	E-mail address - Adresse courriel	Date

17. Contracting Security Authority / Autorité contractante en matière de sécurité

Name (print) - Nom (en lettres moulées) Ali Mussa (M) Quality Control Officer Ali.Mussa@tpsgc-pwgsc.gc.ca	Title - Titre	Signature Mussa, Ali Digitally signed by Mussa, Ali Date: 2025.12.02 14:48:38 -05'00'
	E-mail address - Adresse courriel	Date

