



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

**Bid Receiving Public Works & Government
Services Canada/Réception des soumissions Travaux
publics et Services gouvernementaux Canada**
1713 Bedford Row
Halifax, N.S./Halifax,(N.E.)
Halifax
Nova Scotia
B3J 1T3
Bid Fax: (902) 496-5016

**Request For a Standing Offer
Demande d'offre à commandes**

Regional Individual Standing Offer (RISO)
Offre à commandes individuelle régionale (OCIR)

Canada, as represented by the Minister of Public Works and
Government Services Canada, hereby requests a Standing Offer
on behalf of the Identified Users herein.

Le Canada, représenté par le ministre des Travaux Publics et
Services Gouvernementaux Canada, autorise par la présente,
une offre à commandes au nom des utilisateurs identifiés
énumérés ci-après.

Comments - Commentaires

**Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur**

Issuing Office - Bureau de distribution
Atlantic Region Acquisitions/Région de l'Atlantique
Acquisitions
1713 Bedford Row
Halifax, N.S./Halifax, (N.E.)
Halifax
Nova Scot
B3J 1T3

Title - Sujet Concrete Restoration	
Solicitation No. - N° de l'invitation W010C-200194/A	Date 2019-11-07
Client Reference No. - N° de référence du client W010C-20-0194	GETS Ref. No. - N° de réf. de SEAG PW-\$PWA-405-5950
File No. - N° de dossier PWA-9-82070 (405)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2019-11-26	
Delivery Required - Livraison exigée See Herein	
Address Enquiries to: - Adresser toutes questions à: Kendell (PWA), Byron	Buyer Id - Id de l'acheteur pwa405
Telephone No. - N° de téléphone (902)497-5345 ()	FAX No. - N° de FAX (902)496-5016
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF NATIONAL DEFENCE WILLOW PARK BLDG 7 STN FORCES HALIFAX NOVA SCOTIA B3K5X5 Canada	
Security - Sécurité This request for a Standing Offer includes provisions for security. Cette Demande d'offre à commandes comprend des dispositions en matière de sécurité.	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone	Facsimile No. - N° de télécopieur
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

**THIS DOCUMENT CONTAINS A SECURITY REQUIREMENT / CE DOCUMENT CONTIENT DES
EXIGENCES RELATIVES À LA SÉCURITÉ**

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PART 1 - GENERAL INFORMATION

1.1 Introduction

The Request for Standing Offers (RFSO) is divided into seven parts plus attachments and annexes, as follows:

- Part 1 General Information: provides a general description of the requirement;
- Part 2 Offeror Instructions: provides the instructions applicable to the clauses and conditions of the RFSO;
- Part 3 Offer Preparation Instructions: provides offerors with instructions on how to prepare their offer to address the evaluation criteria specified;
- Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria which must be addressed in the offer, and the basis of selection;
- Part 5 Certifications and Additional Information: includes the certifications and additional information to be provided;
- Part 6 Security, Financial and Insurance Requirements: includes specific requirements that must be addressed by offerors; and
- Part 7 7A, Standing Offer, and 7B, Resulting Contract Clauses:
 - 7A, includes the Standing Offer containing the offer from the Offeror and the applicable clauses and conditions;
 - 7B, includes the clauses and conditions which will apply to any contract resulting from a call-up made pursuant to the Standing Offer.

The Annexes include the Statement of Work, the Basis of Payment, the Security Requirements Checklist, the Standing Offer Reporting Form and the Information for Code of Conduct Certification.

1.2 Summary

Work under this Standing Offer Agreement comprises the furnishing of all labour, material, tools, equipment, transportation and supervision required to perform miscellaneous concrete work, restoration and epoxy injection work to concrete and masonry surfaces, for interior and exterior of buildings, grounds and works at various locations within CFB Halifax as per attached specification W010C-200194, dated 2019-06-30.

The requirement is subject to the provisions of the Canadian Free Trade Agreement (CFTA).

This RFSO allows offerors to use the epost Connect service provided by Canada Post Corporation to transmit their offers electronically. Offerors must refer to Part 2 of the RFSO entitled Offeror Instructions and Part 3 of the RFSO entitled Offer Preparation Instructions, for further information on using this method.

1.3 Security Requirements

There are security requirements associated with the requirement of the Standing Offer. For additional information, see Part 6 - Security, Financial and Insurance Requirements, and Part 7 - Standing Offer and Resulting Contract Clauses. For more information on personnel and organization security screening or security clauses, offerors should refer to the [Contract Security Program](http://www.tpsgc-pwgsc.gc.ca/esc-src/introduction-eng.html) of Public Works and Government Services Canada (<http://www.tpsgc-pwgsc.gc.ca/esc-src/introduction-eng.html>) website.

1.4 Debriefings

Offerors may request a debriefing on the results of the request for standing offers process. Offerors should make the request to the Standing Offer Authority within 15 working days of receipt of the results of the request for standing offers process. The debriefing may be in writing, by telephone or in person.

1.5 Anticipated migration to an e-Procurement Solution (EPS)

Canada is currently developing an online EPS for faster and more convenient ordering of goods and services. In support of the anticipated transition to this system and how it may impact any resulting Standing Offer that is issued under this solicitation, refer to 7.15 Transition to an e-Procurement Solution (EPS).

The Government of Canada's [press release](#) provides additional information.

PART 2 - OFFEROR INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the Request for Standing Offers (RFSO) by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Offerors who submit an offer agree to be bound by the instructions, clauses and conditions of the RFSO and accept the clauses and conditions of the Standing Offer and resulting contract(s).

The [2006](#) (2019-03-04), Standard Instructions - Request for Standing Offers - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the RFSO.

2.2 Submission of Offers

Offers must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated in the RFSO.

Note: For offerors choosing to submit using epost Connect the email address is:

TPSGC.RARceptionSoumissionsNE-ARBidReceivingNS.PWGSC@tpsgc-pwgsc.gc.ca

Note: Offers will not be accepted if emailed directly to this email address. This email address is to be used to open an epost Connect conversation, as detailed in Standard Instructions [2006](#), or to send offers through an epost Connect message if the bidder is using its own licensing agreement for epost Connect.

2.3 Former Public Servant

Contracts awarded to former public servants (FPS) in receipt of a pension or of a lump sum payment must bear the closest public scrutiny, and reflect fairness in the spending of public funds. In order to comply with Treasury Board policies and directives on contracts awarded to FPS, offerors must provide the information required below before the issuance of a standing offer. If the answer to the questions and, as applicable the information required have not been received by the time the evaluation of offers is completed, Canada will inform the Offeror of a time frame within which to provide the information. Failure to comply with Canada's request and meet the requirement within the prescribed time frame will render the offer non-responsive.

Definitions

For the purposes of this clause, "former public servant" is any former member of a department as defined in the [Financial Administration Act](#) R.S., 1985, c. F-11, a former member of the Canadian Armed Forces or a former member of the Royal Canadian Mounted Police. A former public servant may be:

- a. an individual;
- b. an individual who has incorporated;
- c. a partnership made of former public servants; or
- d. a sole proprietorship or entity where the affected individual has a controlling or major interest in the entity.

"lump sum payment period" means the period measured in weeks of salary, for which payment has been made to facilitate the transition to retirement or to other employment as a result of the implementation of various programs to reduce the size of the Public Service. The lump sum payment period does not include the period of severance pay, which is measured in a like manner.

"pension" means a pension or annual allowance paid under the [Public Service Superannuation Act](#) (PSSA), R.S., 1985, c. P-36, and any increases paid pursuant to the [Supplementary Retirement Benefits Act](#), R.S., 1985, c. S-24 as it affects the PSSA. It does not include pensions payable pursuant to the [Canadian Forces Superannuation Act](#), R.S., 1985, c. C-17, the [Defence Services Pension Continuation Act](#), 1970, c. D-3, the [Royal Canadian Mounted Police Pension Continuation Act](#), 1970, c. R-10, and the [Royal Canadian Mounted Police Superannuation Act](#), R.S., 1985, c. R-11, the [Members of Parliament Retiring Allowances Act](#), R.S., 1985, c. M-5, and that portion of pension payable to the [Canada Pension Plan Act](#), R.S., 1985, c. C-8.

Former Public Servant in Receipt of a Pension (to be completed by bidder)

As per the above definitions, is the Offeror a FPS in receipt of a pension? **YES () NO ()**

If so, the Offeror must provide the following information, for all FPS in receipt of a pension, as applicable:

- a. name of former public servant;
- b. date of termination of employment or retirement from the Public Service.

By providing this information, Offerors agree that the successful Offeror's status, with respect to being a former public servant in receipt of a pension, will be reported on departmental websites as part of the published proactive disclosure reports in accordance with [Contracting Policy Notice: 2012-2](#) and the [Guidelines on the Proactive Disclosure of Contracts](#).

Work Force Adjustment Directive (to be completed by bidder)

Is the Offeror a FPS who received a lump sum payment pursuant to the terms of the Work Force Adjustment Directive? **YES () NO ()**

If so, the Offeror must provide the following information:

- a. name of former public servant;
- b. conditions of the lump sum payment incentive;
- c. date of termination of employment;
- d. amount of lump sum payment;
- e. rate of pay on which lump sum payment is based;
- f. period of lump sum payment including start date, end date and number of weeks;
- g. number and amount (professional fees) of other contracts subject to the restrictions of a work force adjustment program.

For all contracts awarded during the lump sum payment period, the total amount of fees that may be paid to a FPS who received a lump sum payment is \$5,000, including Applicable Taxes.

2.4 Enquiries - Request for Standing Offers

All enquiries must be submitted in writing to the Standing Offer Authority no later than **five (5)** calendar days before the Request for Standing Offers (RFSO) closing date. Enquiries received after that time may not be answered.

Offerors should reference as accurately as possible the numbered item of the RFSO to which the enquiry relates. Care should be taken by offerors to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that offerors do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all offerors. Enquiries not submitted in a form that can be distributed to all offerors may not be answered by Canada.

2.5 Applicable Laws

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in Nova Scotia.

Offerors may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their offer, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the offerors.

PART 3 - OFFER PREPARATION INSTRUCTIONS

3.1 Offer Preparation Instructions

- If the Offeror chooses to submit its offer electronically, Canada requests that the Offeror submits its offer in accordance with section 08 of the 2006 standard instructions. The epost Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation. The offer must be gathered per section and separated as follows:

Section I: Technical Offer
Section II: Financial Offer
Section III: Certifications

- If the Offeror chooses to submit its offer in hard copies, Canada requests that the Offeror provides its offer in separately bound sections as follows:

Section I: Technical Offer (1 hard copy)
Section II: Financial Offer (1 hard copy)
Section III: Certifications (1 hard copy)

If there is a discrepancy between the wording of the soft copy on electronic media and the hard copy, the wording of the hard copy will have priority over the wording of the soft copy.

- If the Offeror is simultaneously providing copies of its offer using multiple acceptable delivery methods, and if there is a discrepancy between the wording of any of these copies and the electronic copy provided through epost Connect service, the wording of the electronic copy provided through epost Connect service will have priority over the wording of the other copies.

Prices must appear in the financial offer only. No prices must be indicated in any other section of the offer.

Canada requests that offerors follow the format instructions described below in the preparation of hard copy of their offer:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the RFSO.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573) (<https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573>). To assist Canada in reaching its objectives, Offerors should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

Section I: Technical Offer

In their technical offer, offerors should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

Section II: Financial Offer

Offerors must submit their financial offer in accordance with Annex B, Basis of Payment.

3.1.1 Exchange Rate Fluctuation

C3011T (2013-11-06), Exchange Rate Fluctuation

Section III: Certifications

Offerors must submit the certifications and additional information required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- (a) Offers will be assessed in accordance with the entire requirement of the Request for Standing Offers including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the offers.

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

OFFERS MUST INCLUDE AND MEET ALL OF THE MANDATORY REQUIREMENTS STATED BELOW TO BE CONSIDERED COMPLIANT. OFFERS NOT INCLUDING AND MEETING ALL OF THE MANDATORY REQUIREMENTS BELOW WILL BE DEEMED NON-RESPONSIVE AND WILL BE GIVEN NO FURTHER CONSIDERATION.

CONTRACTOR QUALIFICATIONS

Offerors must possess a minimum of five (5) years of experience in conducting miscellaneous concrete work, restoration and epoxy injection for projects of similar size and nature to the requirement stated at Annex A. Offerors **MUST** use the tables below to list two (2) major projects/contracts to support their experience claims. The Client Contact provided in the tables below will be used as a reference check.

PROJECT / CONTRACT No. 1	
Name of client organization or Company	
Name: _____	
Name and title of client contact	Name: _____ Title: _____
Telephone and facsimile number of client contact	Phone No.: _____ Fax No.: _____
Start date of Project/Contract	Month _____ Year _____
Completion date of Project/Contract	Month _____ Year _____
Brief Description of Project or Contract:	

Solicitation No. - N° de l'invitation
W010C-200194
Client Ref. No. - N° de réf. du client

Amd. No. - N° de la modif.
File No. - N° du dossier

Buyer ID - Id de l'acheteur
pwa405
CCC No./N° CCC - FMS No./N° VME

PROJECT / CONTRACT No. 2	
Name of client organization or Company	
Name: _____	
Name and title of client contact	Name: _____ Title: _____
Telephone and facsimile number of client contact	Phone No.: _____ Fax No.: _____
Start date of Project/Contract	Month _____ Year _____
Completion date of Project/Contract	Month _____ Year _____
Brief Description of Project or Contract:	

4.1.2 Financial Evaluation

M0220T (2016-01-28), Evaluation of Price

4.2 Basis of Selection

An offer must comply with the requirements of the Request for Standing Offers and meet all mandatory technical evaluation criteria to be declared responsive. The responsive offer with the lowest evaluated price will be recommended for issuance of a standing offer.

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Offerors must provide the required certifications and additional information to be issued a standing offer.

The certifications provided by offerors to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare an offer non-responsive, will have the right to set-aside a standing offer, or will declare a contractor in default if any certification made by the Offeror is found to be untrue whether made knowingly or unknowingly during the offer evaluation period, during the Standing Offer period, or during the contract period.

The Standing Offer Authority will have the right to ask for additional information to verify the Offeror's certifications. Failure to comply and to cooperate with any request or requirement imposed by the

Standing Offer Authority will render the offer non-responsive, result in the setting aside of the Standing Offer or constitute a default under the Contract.

5.1 Certifications Required with the Offer

Offerors must submit the following duly completed certifications as part of their offer.

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all offerors must provide with their offer, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

5.2 Certifications Precedent to the Issuance of a Standing Offer and Additional Information

The certifications and additional information listed below should be submitted with the offer, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Standing Offer Authority will inform the Offeror of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the offer non-responsive.

5.2.1 Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real property agreement of the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Offeror must provide the required documentation, as applicable, to be given further consideration in the procurement process.

5.2.2 Federal Contractors Program for Employment Equity - Standing Offer Certification

By submitting an offer, the Offeror certifies that the Offeror, and any of the Offeror's members if the Offeror is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list) available at the bottom of the page of the [Employment and Social Development Canada-Labour's](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#s4) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#s4>).

Canada will have the right to declare an offer non-responsive, or to set-aside a Standing Offer, if the Offeror, or any member of the Offeror if the Offeror is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of issuing of a Standing Offer or during the period of the Standing Offer.

5.2.3 Additional Certifications Precedent to Issuance of a Standing Offer

5.2.3.1 Status and Availability of Resources

[M3020T](#) (2016-01-28), Status and Availability of Resources

PART 6 - SECURITY, FINANCIAL AND INSURANCE REQUIREMENTS

6.1 Security Requirements

1. At the Request for Standing Offers closing date, the following conditions must be met:
 - (a) the Offeror must hold a valid organization security clearance as indicated in Part 7A - Standing Offer;
 - (b) the Offeror's proposed individuals requiring access to classified or protected information, assets or sensitive work sites must meet the security requirements as indicate in Part 7A - Standing Offer;
 - (c) the Offeror must provide the name of all individuals who will require access to classified or protected information, assets or sensitive work sites;
2. For additional information on security requirements, offerors should refer to the [Contract Security Program](http://www.tpsgc-pwgsc.gc.ca/esc-src/introduction-eng.html) of Public Works and Government Services Canada (<http://www.tpsgc-pwgsc.gc.ca/esc-src/introduction-eng.html>) website.

6.2 Insurance Requirements

The Contractor is responsible for deciding if insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any insurance acquired or maintained by the Contractor is at its own expense and for its own benefit and protection. It does not release the Contractor from or reduce its liability under the Contract.

PART 7 - STANDING OFFER AND RESULTING CONTRACT CLAUSES

A. STANDING OFFER

7.1 Offer

- 7.1.1 The Offeror offers to perform the Work in accordance with the Statement of Work at Annex A.

7.2 Security Requirements

- 7.2.1 The following security requirements (SRCL and related clauses provided by the Contract Security Program) apply and form part of the Standing Offer.

SECURITY REQUIREMENT FOR CANADIAN SUPPLIER: PWGSC FILE No W010C-20-0194

1. The Contractor/Offeror 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) of the Industrial Security Sector (ISS), Public Works and Government Services (PWGSC).

-
2. The Contractor/Offeror personnel requiring access to sensitive work site(s) must EACH hold a valid **RELIABILITY STATUS**, granted or approved by the CSP/ISS/PWGSC.
 3. Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of the CSP/ISS/PWGSC.
 4. The Contractor/Offeror must comply with the provisions of the:
 - a) Security Requirements Check List and security guide (if applicable), attached at Annex C;
 - b) *Industrial Security Manual* (Latest Edition).

Additional Security Requirements for 12 Wing Shearwater Airfield Operation Zone (AOZ):

1. The Contractor and/or subcontractor's employees must have as a minimum, "Reliability Status" security clearance in order to access any restricted site, and be accompanied by an assigned, qualified, security cleared escort.
2. The Airfield Operation Zone (AOZ) safety and security briefing is required by all personnel needing access while driving work vehicles onto the AOZ.
3. Any vehicles accessing the runways, Helo landing areas or taxi areas as defined by 12 Wing Shearwater Air Traffic Control, must have a RAMP qualified escort at all times.
4. A valid, up-to-date Contract Employee Access List (CEAL) along with the AOZ safety and security brief, under most circumstances, will guarantee AOZ access; although 12 Wing Ops will have the final decision, dependent upon the current Threat-Risk-Analysis (TRA) and immediate operational requirements.

Immediately upon award of Standing Offer Agreement (SOA), the Contractor must apply for a "Visit Clearance Request (VCR)" for each employee in order to access DND property. Proof of the VCR application must be provided to the Base Security Officer (BSO) / Unit Security Supervisor (USS) within 30 days after award of SOA. The Contractor is responsible to maintain the VCR list is up to date on a yearly basis for the duration of the Standing Offer Agreement.

7.3 Standard Clauses and Conditions

All clauses and conditions identified in the Standing Offer and resulting contract(s) by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

7.3.1 General Conditions

2005 (2017-06-21) General Conditions - Standing Offers - Goods or Services, apply to and form part of the Standing Offer.

7.3.2 Standing Offers Reporting

The Offeror must compile and maintain records on its provision of goods and services to Canada under contracts resulting from the Standing Offer. This data must include all purchases done by Canada, including those acquired and paid for by Canada acquisition cards.

If some data is not available, the reason must be indicated in the report. If no goods or services is provided during a given period, the Offeror must provide a "nil" report.

The data must be submitted on a quarterly basis to the Standing Offer Authority.

The quarterly reporting periods are defined as follows:

- first quarter: April 1 to June 30
- second quarter: July 1 to September 30
- third quarter: October 1 to December 31
- fourth quarter: January 1 to March 31

The data must be submitted to the Standing Offer Authority no later than **ten (10)** calendar days after the end of the reporting period.

7.4 Term of Standing Offer

7.4.1 Period of the Standing Offer

The period for making call-ups against the Standing Offer is for 1 year from date of award.

7.4.2 Extension of Standing Offer

If the Standing Offer is authorized for use beyond the initial period, the Offeror offers to extend its offer for an additional **two (2), one (1) year periods** under the same conditions and at the rates or prices specified in the Standing Offer, or at the rates or prices calculated in accordance with the formula specified in the Standing Offer.

The Offeror will be advised of the decision to authorize the use of the Standing Offer for an extended period by the Standing Offer Authority before the expiry date of the Standing Offer. A revision to the Standing Offer will be issued by the Standing Offer Authority.

7.4.3 Delivery Points

Delivery of the requirement will be made to delivery point(s) specified at Annex A of the Standing Offer.

7.5 Authorities

7.5.1 Standing Offer Authority

The Standing Offer Authority is:

Name: Byron Kendell

Title: Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch
Address: 1713 Bedford Row, Halifax, NS B3J 3C9

Telephone: 902-497-5345
Facsimile: 902-496-5016
E-mail address: byron.kendell@pwgsc.gc.ca

The Standing Offer Authority is responsible for the establishment of the Standing Offer, its administration and its revision, if applicable. Upon the making of a call-up, as Contracting Authority, he is responsible for any contractual issues relating to individual call-ups made against the Standing Offer by any Identified User.

7.5.2 Project Authority

The Project Authority for the Standing Offer is (completed at award):

Name: _____
Title: _____
Organization: _____
Address: _____

Telephone: ____ - ____ - ____
Facsimile: ____ - ____ - ____
E-mail address: _____

The Project Authority is the representative of the department or agency for whom the Work will be carried out pursuant to a call-up under the Standing Offer and is responsible for all the technical content of the Work under the resulting Contract.

7.5.3 Offeror's Representative (to be completed by bidder)

Name: _____
Title: _____
Organization: _____
Address: _____

Telephone: ____ ____ ____
Facsimile: ____ ____ ____
E-mail address: _____

7.6 Proactive Disclosure of Contracts with Former Public Servants

By providing information on its status, with respect to being a former public servant in receipt of a [Public Service Superannuation Act](#) (PSSA) pension, the Contractor has agreed that this information will be reported on departmental websites as part of the published proactive disclosure reports, in accordance with [Contracting Policy Notice: 2012-2](#) of the Treasury Board Secretariat of Canada.

7.7 Identified Users

The Identified User authorized to make call-ups against the Standing Offer is: **DND authorized users within Real Property Operations Section – Halifax.**

7.8 Call-up Instrument

The Work will be authorized or confirmed by the Identified User(s) using the duly completed forms or their equivalents as identified in paragraphs 2 and 3 below, or by using Canada acquisition cards (Visa or MasterCard) for low dollar value requirements.

1. Call-ups must be made by Identified Users' authorized representatives under the Standing Offer and must be for goods or services or combination of goods and services included in the Standing Offer at the prices and in accordance with the terms and conditions specified in the Standing Offer.
2. Any of the following forms could be used which are available through [PWGSC Forms Catalogue](#) website:
 - PWGSC-TPSGC 942 Call-up Against a Standing Offer
 - PWGSC-TPGSC 942-2 Call-up Against a Standing Offer - Multiple Delivery
 - PWGSC-TPSGC 944 Call-up Against Multiple Standing Offers (English version)
 - PWGSC-TPSGC 945 Commande subséquente à plusieurs offres à commandes (French version)

or

3. An equivalent form or electronic call-up document which contains at a minimum the following information:
 - standing offer number;
 - statement that incorporates the terms and conditions of the Standing Offer;
 - description and unit price for each line item;
 - total value of the call-up;
 - point of delivery;
 - confirmation that funds are available under section 32 of the Financial Administration Act;
 - confirmation that the user is an Identified User under the Standing Offer with authority to enter into a contract.

7.9 Limitation of Call-ups

Individual call-ups against the Standing Offer must not exceed **\$ (completed at award)** (Applicable Taxes included).

7.10 Financial Limitation

The total cost to Canada resulting from call-ups against the Standing Offer must not exceed the sum of **\$ (to be completed at award)** (Harmonized Sales Tax excluded) unless otherwise authorized in writing by the Standing Offer Authority. The Offeror must not perform any work or services or supply any articles in response to call-ups which would cause the total cost to Canada to exceed the said sum, unless an increase is so authorized.

The Offeror must notify the Standing Offer Authority as to the adequacy of this sum when 75 percent of this amount has been committed, or before the expiry date of the Standing Offer, whichever comes first. However, if at any time, the Offeror considers that the said sum may be exceeded, the Offeror must promptly notify the Standing Offer Authority.

7.11 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- a) the call up against the Standing Offer, including any annexes;
- b) the articles of the Standing Offer;
- c) the general conditions 2005 (2017-06-21), General Conditions - Standing Offers - Goods or Services
- d) the general conditions 2010C (2018-06-21), Services (medium complexity);
- e) Annex A, Statement of Work;
- f) Annex B, Basis of Payment;
- g) Annex C, Security Requirements Checklist;
- h) the Offeror's offer dated _____ (*insert date of offer*).

7.12 Certifications and Additional Information

7.12.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Offeror with its offer or precedent to issuance of the Standing Offer (SO), and the ongoing cooperation in providing additional information are conditions of issuance of the SO and failure to comply will constitute the Offeror in default. Certifications are subject to verification by Canada during the entire period of the SO and of any resulting contract that would continue beyond the period of the SO.

7.13 Applicable Laws

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in Nova Scotia.

7.14 Transition to an e-Procurement Solution (EPS)

During the period of the Standing Offer, Canada may transition to an EPS for more efficient processing and management of individual call-ups for any or all of the SO's applicable goods and services. Canada reserves the right, at its sole discretion, to make the use of the new e-procurement solution mandatory.

Canada agrees to provide the Offeror with at least a three-month notice to allow for any measures necessary for the integration of the Offer into the EPS. The notice will include a detailed information package indicating the requirements, as well as any applicable guidance and support.

If the Offeror chooses not to offer their goods or services through the e-procurement solution, the Standing Offer may be set aside by Canada.

B. RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from a call-up against the Standing Offer.

7.1 Statement of Work

The Contractor must perform the Work described in the call-up against the Standing Offer.

7.2 Standard Clauses and Conditions

7.2.1 General Conditions

[2010C](#) (2018-06-21), General Conditions - Services (Medium Complexity) apply to and form part of the Contract.

7.3 Term of Contract

7.3.1 Period of the Contract

The Work must be completed in accordance with the call-up against the Standing Offer.

7.3.2 Delivery Date

Delivery must be completed in accordance with the call-up against the Standing Offer.

7.4 Proactive Disclosure of Contracts with Former Public Servants

By providing information on its status, with respect to being a former public servant in receipt of a [Public Service Superannuation Act](#) (PSSA) pension, the Contractor has agreed that this information will be reported on departmental websites as part of the published proactive disclosure reports, in accordance with [Contracting Policy Notice: 2012-2](#) of the Treasury Board Secretariat of Canada.

7.5 Payment

7.5.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit prices, as specified in Annex B. Customs duties are included and Applicable Taxes are extra.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

7.5.2 Limitation of Price

[C6000C](#) (2017-08-17), Limitation of Price

7.5.3 Single Payment

H1000C (2008-05-12), Single Payment

7.5.4 Electronic Payment of Invoices – Call-up

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

- a. Direct Deposit (Domestic and International);

The Contractor will be required to provide the following to the Accounts Payable Section:

1. Banking information for direct deposit; and,
2. Email address.

7.6 Invoicing Instructions

The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed. Invoices must be distributed as follows:

The original and one (1) copy must be forwarded to the following address for certification and payment:

Accounts Payable Section
Real Property Operations Section - Halifax
Maritime Forces Atlantic PO Box 99000
Station Forces, Willow Park Bldg 7
Halifax, NS B3K 5X5

Invoices must be submitted within 30 days of completion of Work.
Each invoice will indicate the following information:

1. Contract number;
2. Work order/ serial number;
3. Requisition/order offer number;
4. Building number or location;
5. Dates during which the Work was accomplished;
6. A detailed description of the Work performed, with itemized list of materials & labour (a copy of the Contractor's invoice from his material supplier will also be included plus any other costs being charged), labour, overhead, profit and applicable taxes will be included separately on the invoice.
7. Labour costs are to be broken down by trade and sub-trade. Labour time sheets will also be provided upon request.

No invoices will be processed without proper information as outlined.

7.7 Insurance

The Contractor is responsible for deciding if insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any insurance acquired or maintained by

Solicitation No. - N° de l'invitation
W010C-200194
Client Ref. No. - N° de réf. du client

Amd. No. - N° de la modif.
File No. - N° du dossier

Buyer ID - Id de l'acheteur
pwa405
CCC No./N° CCC - FMS No./N° VME

the Contractor is at its own expense and for its own benefit and protection. It does not release the Contractor from or reduce its liability under the Contract.

7.8 SACC Manual Clauses

[C0705C](#) (2010-01-11) Discretionary Audit
[A9062C](#) (2011-05-16) Canadian Site Regulations
[D5328C](#) (2014-06-26) Inspection and Acceptance

Solicitation No. - N° de l'invitation
W010C-200194
Client Ref. No. - N° de réf. du client

Amd. No. - N° de la modif.
File No. - N° du dossier

Buyer ID - Id de l'acheteur
pwa405
CCC No./N° CCC - FMS No./N° VME

ANNEX A

STATEMENT OF WORK

(See Attachment)

ANNEX B

BASIS OF PAYMENT

Please complete the following tables and submit with your bid.

1. Regular working hours: Monday to Friday, 0730 – 1600 hrs.
2. The estimated annual usage figures (D) are for evaluation purposes only and does not infer all the quantities for that item will be utilized or that the quantities may not be exceeded.
3. All costs associated with transportation to and from work sites within Halifax Regional Municipality (HRM) MUST be incorporated in the "Unit Rate" column E with an exception in line items 20 and 21 below.
4. Lowest overall evaluation price will be determined as follows: $F = D \times E$

Table 1 – Pricing for Standing Offer Agreement Year 1					
January 26, 2020 to January 25, 2021					
Item	Class of labour, material or plant	Unit of measure	Estimated hours/quantity per year	Unit Rate	Extended Price
A	B	C	D	E	F = D * E
1.	Removal and disposal of concrete sidewalks, c/w surrounding sod or asphalt and 150 mm of existing base, fill or debris (at an approved disposal site).				
	a. 0-100 mm thick	m ²	200	\$ _____ / m ²	\$ _____
	b. 101-200 mm thick	m ²	100	\$ _____ / m ²	\$ _____
2.	Removal and disposal of concrete slab-on-grade. Including reinforcing steel c/w surrounding sod or asphalt and 150 mm of existing base, fill or debris (at an approved disposal site).				
	a. 0-100 mm thick	m ²	200	\$ _____ / m ²	\$ _____
	b. 101-200 mm thick	m ²	100	\$ _____ / m ²	\$ _____

3.	Removal of curb and gutter (at an approved disposal site). a. 150 mm - 300 mm b. 301 mm - 500 mm	linear metre linear metre linear metre	 200 200	\$ _____ / lm \$ _____ / lm	\$ _____ \$ _____
4.	Removal and disposal of materials to facilitate new concrete work (at an approved disposal site). a. sod b. asphalt c. soil (up to 150 mm)	m ² m ² m ²	 200 100 200	\$ _____ / m ² \$ _____ / m ² \$ _____ / m ²	\$ _____ \$ _____ \$ _____
5.	Saw cutting of pavements to facilitate new concrete work. a. asphalt (0-100 mm) b. concrete (0-100 mm) c. concrete (101-200 mm)	linear metre linear metre linear metre linear metre	 100 200 50	\$ _____ / lm \$ _____ / lm \$ _____ / lm	\$ _____ \$ _____ \$ _____
6.	Install new compacted gravel base, 150 mm deep for slabs and sidewalks. a. type 1 material b. type 2 material	m ² m ²	 600 300	\$ _____ / m ² \$ _____ / m ²	\$ _____ \$ _____
7.	Placing new concrete sidewalk or slab-on ground, including finishing, curing, control joints, expansion joints and penetrating sealer. a. 0-100 mm b. 101-200 mm c. wire mesh	m ² m ² m ²	 400 300 400	\$ _____ / m ² \$ _____ / m ² \$ _____ / m ²	\$ _____ \$ _____ \$ _____

	d. rebar	kg	4,000	\$ _____ / kg	\$ _____
8.	Placing new concrete curb and gutter including finishing, curing, control joints, expansion joints and penetrating sealer.				
	a. curb and gutter	linear metre	200	\$ _____ / lm	\$ _____
	b. curb	linear metre	100	\$ _____ / lm	\$ _____
9.	Install additional compacted gravel base.				
	a. type 1 material	m ²	50	\$ _____ / lm	\$ _____
	b. type 2 material	m ²	50	\$ _____ / lm	\$ _____
10.	Supply and install site restoration materials.				
	a. sod including laid, pegged and watered once	m ²	200	\$ _____ / m ²	\$ _____
	b. asphalt (64 mm) placed in accordance with the specification	m ²	50	\$ _____ / m ²	\$ _____
	c. top soil (minimum 100 mm) including raked and rolled	m ²	200	\$ _____ / m ²	\$ _____
11.	Concrete test cylinder c/w concrete and prepared for testing.				
	a. cylinder	per cylinder	10	\$ _____	\$ _____
12.	Labour for additional work to above (minor repairs to flashing, stone caps, caulking, parging, coatings, expansion joints, control joints, anchors, doweling, water/sand blasting, chipping and core				

	drilling). Labour for productive hours used exclusively in work.				
	a. cement/concrete finisher c/w tools	per hour	200	\$ _____/ hr	\$ _____
	b. helper/labourer	per hour	300	\$ _____/ hr	\$ _____
13.	Removal and disposal of deteriorated concrete.				
	a. 0-20 mm thick	m ²	100	\$ _____/ m ²	\$ _____
	b. 21-75 mm thick	m ²	60	\$ _____/ m ²	\$ _____
14.	Saw cutting of concrete.				
	a. concrete 0-100 mm thick	linear metre	60	\$ _____/ lm	\$ _____
	b. concrete 101-200 mm thick	linear metre	30	\$ _____/ lm	\$ _____
	c. concrete 201-300 mm thick	linear metre	30	\$ _____/ lm	\$ _____
15.	Concrete injection including preparation and setup.				
	a. 150 mm - 300 mm	linear metre	800	\$ _____/ lm	\$ _____
	b. 301 mm - 500 mm	linear metre	400	\$ _____/ lm	\$ _____
16.	Patch repair including cleaning, preparation, framework etc.				
	a. 0-20 mm mortar overlay	m ²	40	\$ _____/ m ²	\$ _____
	b. 21-50 mm repair	m ²	40	\$ _____/ m ²	\$ _____
	c. 51-100 mm repair	m ²	40	\$ _____/ m ²	\$ _____
17.	Surface application.				
	a. bonding agent	m ²	60	\$ _____/ m ²	\$ _____
	b. penetrating sealer	m ²	90	\$ _____/ m ²	\$ _____
18.	Labour in addition to above (direct or productive hours used				

	exclusively in work).				
	a. concrete trades person c/w tools	per hour	900	\$ _____/ hr	\$ _____
	b. helper/labourer	per hour	300	\$ _____/ hr	\$ _____
	c. work in confined spaces	per hour	200	\$ _____/ hr	\$ _____
19.	Scaffolding (Contractor to provide complete sets of temporary structures). Labour to transport, erect and dismantle steel safe way and swing scaffold shall be included in price.				
	a. swing scaffold	per day	50	\$ _____/ day	\$ _____
	b. swing scaffold	per week	1	\$ _____/ wk.	\$ _____
	c. staging	per day	70	\$ _____/ day	\$ _____
	d. staging	per week	1	\$ _____/ wk.	\$ _____
20.	Labour rates (includes travel time to and from work the work site and all related expenses).				
	a. concrete tradesperson c/w tools	per hour	900	\$ _____/ hr	\$ _____
	b. helper/labourer	per hour	300	\$ _____/ hr	\$ _____
	c. work in confined space	per hour	200	\$ _____/ hr	\$ _____
Table 1 - Total Extended Price Year 1 (F)					\$ _____
Note:					
1. An allowance for materials and replacement parts, required permits, certificates, assessments, specialty equipment, disposals and security will be at net cost plus 10% mark-up (supported with receipts).					
2. All labour, material, equipment and transportation required for concrete restoration work shall be measured in units.					

Table 2 – Pricing for Standing Offer Agreement Option Year 1
January 26, 2021 to January 25, 2022

Item A	Class of labour, material or plant B	Unit of measure C	Estimated hours/quantity per year D	Unit Rate E	Extended Price F = D * E
1.	Removal and disposal of concrete sidewalks, c/w surrounding sod or asphalt and 150 mm of existing base, fill or debris (at an approved disposal site). a. 0-100 mm thick b. 101-200 mm thick	m ² m ²	200 100	\$ _____ / m ² \$ _____ / m ²	\$ _____ \$ _____
2.	Removal and disposal of concrete slab-on-grade. Including reinforcing steel c/w surrounding sod or asphalt and 150 mm of existing base, fill or debris (at an approved disposal site). a. 0-100 mm thick b. 101-200 mm thick	m ² m ²	200 100	\$ _____ / m ² \$ _____ / m ²	\$ _____ \$ _____
3.	Removal and disposal of curb and gutter (at an approved disposal site). a. 150 mm - 300 mm b. 301 mm - 500 mm	linear metre linear metre linear metre	200 200	\$ _____ / lm \$ _____ / lm	\$ _____ \$ _____
4.	Removal and disposal of materials to facilitate new concrete work (at an approved disposal site). a. sod b. asphalt c. soil (up to 150 mm)	m ² m ² m ²	200 100 200	\$ _____ / m ² \$ _____ / m ² \$ _____ / m ²	\$ _____ \$ _____ \$ _____

5.	<p>Saw cutting of pavements to facilitate new concrete work.</p> <p>a. asphalt (0-100 mm)</p> <p>b. concrete (0-100 mm)</p> <p>c. concrete (101-200 mm)</p> <p>d. concrete (201-300 mm)</p>	<p>linear metre</p> <p>linear metre</p> <p>linear metre</p> <p>linear metre</p> <p>linear metre</p>	<p>100</p> <p>200</p> <p>50</p> <p>50</p>	<p>\$ _____ / lm</p> <p>\$ _____ / lm</p> <p>\$ _____ / lm</p> <p>\$ _____ / lm</p>	<p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p>
6.	<p>Install new compacted gravel base, 150 mm deep for slabs and sidewalks.</p> <p>a. type 1 material</p> <p>b. type 2 material</p>	<p>m²</p> <p>m²</p>	<p>600</p> <p>300</p>	<p>\$ _____ / m²</p> <p>\$ _____ / m²</p>	<p>\$ _____</p> <p>\$ _____</p>
7.	<p>Placing new concrete sidewalk or slab-on ground, including finishing, curing, control joints, expansion joints and penetrating sealer.</p> <p>a. 0-100 mm</p> <p>b. 101-200 mm</p> <p>c. wire mesh</p> <p>d. rebar</p>	<p>m²</p> <p>m²</p> <p>m²</p> <p>kg</p>	<p>400</p> <p>300</p> <p>400</p> <p>4,000</p>	<p>\$ _____ / m²</p> <p>\$ _____ / m²</p> <p>\$ _____ / m²</p> <p>\$ _____ / kg</p>	<p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p>
8.	<p>Placing new concrete curb and gutter including finishing, curing, control joints, expansion joints and penetrating sealer.</p> <p>a. curb and gutter</p> <p>b. curb</p>	<p>linear metre</p> <p>linear metre</p> <p>metre</p>	<p>200</p> <p>100</p>	<p>\$ _____ / lm</p> <p>\$ _____ / lm</p>	<p>\$ _____</p> <p>\$ _____</p>
9.	<p>Install additional compacted gravel base.</p> <p>a. type 1 material</p> <p>b. type 2 material</p>	<p>m²</p> <p>m²</p>	<p>50</p> <p>50</p>	<p>\$ _____ / lm</p> <p>\$ _____ / lm</p>	<p>\$ _____</p> <p>\$ _____</p>
10.	<p>Supply and install site restoration materials.</p> <p>a. sod including laid, pegged and watered once</p>	<p>m²</p>	<p>200</p>	<p>\$ _____ / m²</p>	<p>\$ _____</p>

	b. asphalt (64 mm) placed in accordance with the specification	m ²	50	\$ _____ / m ²	\$ _____
	c. top soil (minimum 100 mm) including raked and rolled	m ²	200	\$ _____ / m ²	\$ _____
11.	Concrete test cylinder c/w concrete and prepared for testing. a. cylinder	per cylinder	10	\$ _____	\$ _____
12.	Labour for additional work to above (minor repairs to flashing, stone caps, caulking, parging, coatings, expansion joints, control joints, anchors, doweling, water/sand blasting, chipping and core drilling). Labour for productive hours used exclusively in work. a. cement/concrete finisher c/w tools b. helper/labourer	per hour per hour	200 300	\$ _____ / hr \$ _____ / hr	\$ _____ \$ _____
13.	Removal and disposal of deteriorated concrete. a. 0-20 mm thick b. 21-75 mm thick	m ² m ²	100 60	\$ _____ / m ² \$ _____ / m ²	\$ _____ \$ _____
14.	Saw cutting of concrete. a. concrete 0-100 mm thick b. concrete 101-200 mm thick c. concrete 201-300 mm thick	linear metre linear metre linear metre	60 30 30	\$ _____ / lm \$ _____ / lm \$ _____ / lm	\$ _____ \$ _____ \$ _____
15.	Concrete injection including preparation and setup. a. 150 mm - 300 mm b. 301 mm - 500 mm	linear metre linear metre	800 400	\$ _____ / lm \$ _____ / lm	\$ _____ \$ _____

16.	Patch repair including cleaning, preparation, framework etc.				
	a. 0-20 mm mortar overlay	m ²	40	\$ _____ / m ²	\$ _____
	b. 21-50 mm repair	m ²	40	\$ _____ / m ²	\$ _____
	c. 51-100 mm repair	m ²	40	\$ _____ / m ²	\$ _____
17.	Surface application.				
	a. bonding agent	m ²	60	\$ _____ / m ²	\$ _____
	b. penetrating sealer	m ²	90	\$ _____ / m ²	\$ _____
18.	Labour in addition to above (direct or productive hours used exclusively in work).				
	a. concrete trades person c/w tools	per hour	900	\$ _____ / hr	\$ _____
	b. helper/labourer	per hour	300	\$ _____ / hr	\$ _____
	c. work in confined spaces	per hour	200	\$ _____ / hr	\$ _____
19.	Scaffolding (Contractor to provide complete sets of temporary structures). Labour to transport, erect and dismantle steel safe way and swing scaffold shall be included in price.				
	a. swing scaffold	per day	50	\$ _____ / day	\$ _____
	b. swing scaffold	per week	1	\$ _____ / wk.	\$ _____
	c. staging	per day	70	\$ _____ / day	\$ _____
	d. staging	per week	1	\$ _____ / wk.	\$ _____
20.	Labour rates (includes travel time to and from work the work site and all related expenses).				
	a. concrete tradesperson c/w tools	per hour	900	\$ _____ / hr	\$ _____
	b. helper/labourer	per hour	300	\$ _____ / hr	\$ _____
	c. work in confined space	per hour	200	\$ _____ / hr	\$ _____

Table 2 - Total Extended Price Option Year 1 (F)	\$ _____
Note: <ol style="list-style-type: none"> 1. An allowance for materials and replacement parts, required permits, certificates, assessments, specialty equipment, disposals and security will be at net cost plus 10% mark-up (supported with receipts). 2. All labour, material, equipment and transportation required for concrete restoration work shall be measured in units. 	

Table 3 – Pricing for Standing Offer Agreement Option Year 2					
January 26, 2022 to January 25, 2023					
Item A	Class of labour, material or plant B	Unit of measure C	Estimated hours/quantity per year D	Unit Rate E	Extended Price F = D * E
1.	Removal and disposal of concrete sidewalks, c/w surrounding sod or asphalt and 150 mm of existing base, fill or debris (at an approved disposal site).				
	a. 0-100 mm thick	m ²	200	\$ _____ / m ²	\$ _____
	b. 101-200 mm thick	m ²	100	\$ _____ / m ²	\$ _____
2.	Removal and disposal of concrete slab-on-grade. Including reinforcing steel c/w surrounding sod or asphalt and 150 mm of existing base, fill or debris (at an approved disposal site).				
	a. 0-100 mm thick	m ²	200	\$ _____ / m ²	\$ _____
	b. 101-200 mm thick	m ²	100	\$ _____ / m ²	\$ _____
3.	Removal and disposal of curb and gutter (at an approved disposal site).				
	a. 150 mm - 300 mm	linear metre	200	\$ _____ / lm	\$ _____
	b. 301 mm - 500 mm	linear	200	\$ _____ / lm	\$ _____

		metre			
4.	Removal and disposal of materials to facilitate new concrete work (at an approved disposal site). a. sod b. asphalt c. soil (up to 150 mm)	m ² m ² m ²	200 100 200	\$ _____ / m ² \$ _____ / m ² \$ _____ / m ²	\$ _____ \$ _____ \$ _____
5.	Saw cutting of pavements to facilitate new concrete work. a. asphalt (0-100 mm) b. concrete (0-100 mm) c. concrete (101-200 mm) d. concrete (201-300 mm)	linear metre linear metre linear metre linear metre	100 200 50 50	\$ _____ / lm \$ _____ / lm \$ _____ / lm \$ _____ / lm	\$ _____ \$ _____ \$ _____ \$ _____
6.	Install new compacted gravel base, 150 mm deep for slabs and sidewalks. a. type 1 material b. type 2 material	m ² m ²	600 300	\$ _____ / m ² \$ _____ / m ²	\$ _____ \$ _____
7.	Placing new concrete sidewalk or slab-on ground, including finishing, curing, control joints, expansion joints and penetrating sealer. a. 0-100 mm b. 101-200 mm c. wire mesh d. rebar	m ² m ² m ² kg	400 300 400 4,000	\$ _____ / m ² \$ _____ / m ² \$ _____ / m ² \$ _____ / kg	\$ _____ \$ _____ \$ _____ \$ _____
8.	Placing new concrete curb and gutter including finishing, curing, control joints, expansion joints and penetrating sealer. a. curb and gutter b. curb	linear metre linear	200 100	\$ _____ / lm \$ _____ / lm	\$ _____ \$ _____

		metre			
9.	Install additional compacted gravel base. a. type 1 material b. type 2 material	m ² m ²	50 50	\$ _____ / lm \$ _____ / lm	\$ _____ \$ _____
10.	Supply and install site restoration materials. a. sod including laid, pegged and watered once b. asphalt (64 mm) placed in accordance with the specification c. top soil (minimum 100 mm) including raked and rolled	m ² m ² m ²	200 50 200	\$ _____ / m ² \$ _____ / m ² \$ _____ / m ²	\$ _____ \$ _____ \$ _____
11.	Concrete test cylinder c/w concrete and prepared for testing. a. cylinder	per cylinder	10	\$ _____	\$ _____
12.	Labour for additional work to above (minor repairs to flashing, stone caps, caulking, parging, coatings, expansion joints, control joints, anchors, doweling, water/sand blasting, chipping and core drilling). Labour for productive hours used exclusively in work. a. cement/concrete finisher c/w tools b. helper/labourer	per hour per hour	200 300	\$ _____ / hr \$ _____ / hr	\$ _____ \$ _____
13.	Removal and disposal of deteriorated concrete. a. 0-20 mm thick b. 21-75 mm thick	m ² m ²	100 60	\$ _____ / m ² \$ _____ / m ²	\$ _____ \$ _____
14.	Saw cutting of concrete. a. concrete 0-100 mm thick	linear metre	60 30	\$ _____ / lm \$ _____ / lm	\$ _____ \$ _____

	b. concrete 101-200 mm thick c. concrete 201-300 mm thick	linear metre linear metre	30	\$ _____/ lm	\$ _____
15.	Concrete injection including preparation and setup. a. 150 mm - 300 mm b. 301 mm - 500 mm	linear metre linear metre metre	800 400	\$ _____/ lm \$ _____/ lm	\$ _____ \$ _____
16.	Patch repair including cleaning, preparation, framework etc. a. 0-20 mm mortar overlay b. 21-50 mm repair c. 51-100 mm repair	m ² m ² m ²	40 40 40	\$ _____/ m ² \$ _____/ m ² \$ _____/ m ²	\$ _____ \$ _____ \$ _____
17.	Surface application. a. bonding agent b. penetrating sealer	m ² m ²	60 90	\$ _____/ m ² \$ _____/ m ²	\$ _____ \$ _____
18.	Labour in addition to above (direct or productive hours used exclusively in work). a. concrete trades person c/w tools b. helper/labourer c. work in confined spaces	per hour per hour per hour	900 300 200	\$ _____/ hr \$ _____/ hr \$ _____/ hr	\$ _____ \$ _____ \$ _____
19.	Scaffolding (Contractor to provide complete sets of temporary structures). Labour to transport, erect and dismantle steel safe way and swing scaffold shall be included in price. a. swing scaffold b. swing scaffold c. staging d. staging	per day per week per day per week	50 1 70 1	\$ _____/ day \$ _____/ wk. \$ _____/ day \$ _____/ wk.	\$ _____ \$ _____ \$ _____ \$ _____
20.	Labour rates (includes travel time to and from				

	work the work site and all related expenses).				
	a. concrete	per hour	900	\$ _____/ hr	\$ _____
	tradesperson c/w	per hour	300	\$ _____/ hr	\$ _____
	tools	per hour	200	\$ _____/ hr	\$ _____
	b. helper/labourer				
	c. work in confined space				
Table 3 - Total Extended Price Option Year 2 (F)					\$ _____
Note:					
3. An allowance for materials and replacement parts, required permits, certificates, assessments, specialty equipment, disposals and security will be at net cost plus 10% mark-up (supported with receipts).					
4. All labour, material, equipment and transportation required for concrete restoration work shall be measured in units.					

Total Bid Price for Evaluation (Sum of Tables 1, 2, and 3)

Table 1 Total: \$ _____

Table 2 Total: \$ _____

Table 3 Total: \$ _____

Total Bid Price \$ _____

The price of the bid will be evaluated in Canadian dollars, the Goods and Services tax or the Harmonized Sales Tax excluded, FOB destination including Canadian customs duties and excise taxes included.

End of Basis of Payment

Solicitation No. - N° de l'invitation
W010C-200194
Client Ref. No. - N° de réf. du client

Amd. No. - N° de la modif.
File No. - N° du dossier

Buyer ID - Id de l'acheteur
pwa405
CCC No./N° CCC - FMS No./N° VME

ANNEX C

SECURITY REQUIREMENTS CHECK LIST

(See Attachment)

ANNEX D

STANDING OFFER REPORTING FORM

Please fax to the Standing offer authority named herein.

Please use the Standing Offer number in the Subject line and clearly indicate:

- The standing offer number for which data is submitted;
- The period for which the data has been accumulated (start date to end date);
- The Department with whom the standing offer was arranged;
- The start date and the end date for the standing offer; and
- The total spend to date, by government department.

Standing Offer		(Insert Standing Offer #)	Start Date of SO (DD/MM/YYYY)	End Date of SO (DD/MM/YYYY)	
Total Value to Date (\$)		Total Value for Reporting Period (\$)	Start Reporting Period (DD/MM/YYYY)	End Reporting Period (DD/MM/YYYY)	
Department Requesting	Order Number	Work Description	Date of Order	Date of Delivery	Value of Order (not including HST)

ANNEX E

INFORMATION FOR CODE OF CONDUCT CERTIFICATION

[PLEASE COMPLETE AND RETURN WITH BID SUBMISSION]

Please provide list of names of the following entities, according to the ownership nature of the company

1. For a Corporation - each current member of the Bidder's Board of Directors;

2. For a Sole Proprietorship or an individual doing business under a firm name - the name of the sole proprietor or individual;

3. For a Joint Venture - the names of all current members of the Joint venture;

4. For an individual - the full name of the person;

Department of National Defence



Specification

Standing Offer Agreement

Concrete Work, Restoration and Epoxy Injection

CFB Halifax, NS

<u>Section</u>	<u>Title</u>	<u>Pages</u>
<u>Division 01 - General Requirements</u>		
01 11 00	General Instructions	8
01 35 30	Health and Safety Requirements	9
01 35 35	DND Fire Safety Requirements	5
01 35 36	Security, Safety and Fire Regulations CFAD Bedford	7
01 35 37	Access to DRDC Atlantic Complex	1
01 35 43	Environmental Procedures	2
01 35 73	Confined Spaces Requirements	10
01 61 00	Common Product Requirements	4
01 74 11	Cleaning	2
<u>Division 03 - Concrete</u>		
03 10 00	Concrete Forming and Accessories	4
03 20 00	Concrete Reinforcing	5
03 30 00.01	Cast-in-Place Concrete	11
03 40 00	Miscellaneous Concrete Work	5
03 50 00	Concrete Restoration and Epoxy Injection	8

PART 1 - GENERAL

- 1.1 RELATED SECTIONS
- .1 Section 03 10 00 Concrete Forming and Accessories.
 - .2 Section 03 20 00 Concrete Reinforcing.
 - .3 Section 03 30 00.01 Cast-In-Place Concrete.
 - .4 Section 03 40 00 Miscellaneous Concrete Work.
 - .5 Section 03 50 00 Concrete Restoration and Epoxy Injection.
- 1.2 DESCRIPTION OF WORK
- .1 Work under this requirement comprises the furnishing of all labour, material, tools, equipment, transportation, and supervision required to perform miscellaneous concrete work, concrete restoration and epoxy injection work to concrete and masonry surfaces, for interior and exterior of buildings, grounds and works of CFB Halifax, as specified herein.
- 1.3 DEPARTMENTAL REPRESENTATIVE
- .1 All reference to the Departmental Representative in this specification, who is the Contract Inspector which is representing the Real Property Operations Section - Halifax (RPOS(H)).
- 1.4 WORK INCLUDED
- .1 Work included in this requirement includes but will not be limited to the following:
 - .1 Scope of work as identified in Division 03 - Concrete.
 - .2 Perform work in confined spaces as required.
 - .3 Conduct clean up.
- 1.5 LOCATIONS OF JOB SITES
- .1 Areas covered under this specification include but not limited to the following locations:
 - .1 Halifax Regional Municipality (HRM) area:
 - .1 Stadacona - Halifax, NS;

1.5 LOCATIONS OF JOB
SITES
(Cont'd)

- .1 (Cont'd)
- .1 (Cont'd)
- .2 Windsor Park - Halifax, NS;
- .3 Willow Park - Halifax, NS;
- .4 Halifax Armoury - Halifax, NS;
- .5 HMC Dockyard - Halifax, NS;
- .6 Royal Artillery (RA) Park - Halifax, NS;
- .7 Damage Control School - Herring Cove, NS;
- .8 Ferguson's Cove - Ferguson's Cove, NS;
- .9 12 Wing Shearwater - Eastern Passage, NS;
- .10 Osbourne Head Gunnery Range - Cow Bay, NS;
- .11 Naval Armament Depot (NAD) - Dartmouth, NS;
- .12 DRDC Atlantic - Dartmouth, NS;
- .13 Wright's Cove Degaussing Range - Dartmouth, NS;
- .14 CFAD Bedford - Bedford, NS;
- .15 Bedford Armoury - Bedford, NS;
- .16 Bedford Rifle Range - Bedford, NS.
- .2 Outlying areas:
- .1 NRS Mill Cove - Mill Cove;
- .2 NRS Newport Corner - Newport Corner, NS; and
- .3 Windsor Armoury - Windsor, NS.

1.6 SITE ACCESS

- .1 Access to the site is under the direction of the Department of National Defence. All visitors entering areas issuing a daily pass will be aware of the requirement for search as a condition of issue.

-
- 1.6 SITE ACCESS (Cont'd) .2 While within the confines of CFB Halifax all employees and representatives of the Contractor must comply with all of the Standing Orders as promulgated by Base/Unit Authorities.
- 1.7 PRE-JOB MEETING .1 Immediately upon receipt of award of Standing Offer Agreement, the successful Contractor will contact the Departmental Representative to arrange a pre-job meeting prior to commencement of any work.
- .2 The Departmental Representative will provide the Contractor with a list of his/her authorized representatives at the pre-job meeting.
- 1.8 WORKMANSHIP .1 Workmanship must be the best quality executed by workers experienced and skilled in the respective duties for which they are employed.
- .2 Do not employ any unfit person or anyone unskilled in their required duties. The Departmental Representative reserves the right to require the dismissal from the site, workers deemed incompetent, careless or insubordinate.
- .3 Decisions as to the quality or fitness of workmanship in cases of dispute rest solely with the Departmental Representative whose decision is final.
- .4 The Contractor will employ a competent and experienced supervisor with the authority to speak on his behalf on day-to-day routine matters.
- .5 Whenever the Contractor uses sub-contractors, they too must perform to and comply with all requirements.
- 1.9 NORMAL WORKING HOURS .1 Normal working hours will be 0730 to 1600 hours, Monday to Friday. Any work carried out other than normal working hours must be authorized by the Departmental Representative.
- 1.10 CONTRACTOR'S USE OF SITE .1 Contractor will be briefed on use of site by the Departmental Representative.
- .2 Do not unreasonably encumber site with materials or equipment.

-
- 1.10 CONTRACTOR'S USE OF SITE
(Cont'd)
- .3 Move stored products or equipment which interferes with operations of Departmental Representative or other Contractors.
- .4 The Departmental Representative will brief the Contractor on access to restricted areas.
- 1.11 PARKING
- .1 In limited areas, a parking space will be made available on site for Contractor vehicles to drop off equipment and supplies. Maintain and administer this space as directed.
- .2 The Contractor may have to pay for parking at the following locations:
- .1 Stadacona - Halifax, NS;
 - .2 Windsor Park - Halifax, NS;
 - .3 Willow Park - Halifax, NS;
 - .4 Royal Artillery (RA) Park - Halifax, NS;
 - .5 Halifax Armoury - Halifax, NS;
 - .6 HMC Dockyard - Halifax, NS; and
 - .7 Naval Armament Depot (NAD) - Dartmouth, NS.
- 1.12 CODES AND STANDARDS
- .1 Perform work in accordance with the latest edition of the National Building Code of Canada (NBC), Canadian Electrical Code Part I, National Plumbing Code of Canada (NPC), Canada Labour Code Part II, National Fire Code of Canada, NS Fall Protection and Scaffold Regulations, DND/CF Asbestos management directives, and any other applicable federal, provincial and municipal regulations and by-laws. In any case of conflict or discrepancy, the more stringent requirements will apply.
- .2 Meet or exceed requirements of Contract documents, specified standards, codes and referenced documents.

1.13 PROTECTION OF
EXISTING FACILITIES

- .1 The Contractor must take all necessary precautions to ensure against damage to existing facilities. Any damage to such facilities as a result of the Contractors operations must be repaired or replaced by the Contractor at his/her own expense, as soon as is reasonably possible.
- .2 Special coverings and protection must be provided to protect plants, walls, projections and adjacent work where materials are being removed, installed or hoisted.
- .3 The Contractor must protect all occupant owned furnishings and equipment, and the building from damage during execution of this requirement.
- .4 Where the Departmental Representative considers it necessary, provide and erect warning signs and barriers.

1.14 ALTERATIONS,
ADDITIONS OR REPAIRS TO
EXISTING BUILDING

- .1 Execute work with least possible interference or disturbance to building operations, occupants, public and normal use of premises. Arrange with Departmental Representative to facilitate execution of work.
- .2 Where security has been reduced by work of Contract, provide temporary means to maintain security.
- .3 Provide temporary dust screens, barriers, warning signs in locations where renovation and alteration work is adjacent to areas used by public or government staff.
- .4 Use only elevators existing in building for moving workers and material.
 - .1 Protect walls of passenger elevators, to approval of prior to approval of Departmental Representative prior to use.
 - .2 Accept liability for damage, safety of equipment and overloading of existing equipment.

1.15 EXISTING SERVICES

- .1 Notify Departmental Representative and utility companies of intended interruption of services and obtain required permission.

1.15 EXISTING SERVICES
(Cont'd)

- .2 Where Work involves breaking into or connecting to existing services, give 48 hours notice for necessary interruption of mechanical or electrical service throughout course of work. Minimize duration of interruptions. Carry out work at times as directed by governing authorities with minimum disturbance to tenant operations.
- .3 Establish location and extent of service lines in area of work before starting Work. Notify Departmental Representative of findings.
- .4 Submit schedule to and obtain approval from Departmental Representative for any shut-down or closure of active service or facility. Adhere to approved schedule and provide notice to affected parties.
- .5 Provide temporary services when directed by Departmental Representative to maintain critical building and tenant systems.
- .6 Where unknown services are encountered, immediately advise Departmental Representative and confirm findings in writing.

1.16 CUTTING, FITTING AND
PATCHING

- .1 Execute cutting, fitting and patching required to make work fit properly.
- .2 Where new work connects with existing and where existing work is altered, or cut, patch and make good to match.
- .3 Obtain Departmental Representative's approval before cutting, boring or sleeving load-bearing members.
- .4 Make cuts with clean, true, smooth edges. Make patches inconspicuous in final assembly.

1.17 CONCEALMENT

- .1 Conceal pipes, ducts and wiring in floor, wall and ceiling construction of finished areas except where directed otherwise by the Departmental Representative.

1.18 LICENSES AND
PERMITS

- .1 The Contractor will be responsible for obtaining and paying for all licenses and permits required to perform the Work.

1.19 POWER AND WATER
SUPPLY

- .1 DND may provide, free of charge, temporary electric power and water for construction purposes.
- .2 Departmental Representative will determine delivery points and quantitative limits. Departmental Representative's written permission is required before any connection is made. Connect to existing power supply in accordance with Canadian Electrical Code.
- .3 Provide, at no cost to DND, all equipment and temporary lines to bring these services to project site.
- .4 Supply of temporary services by DND is subject to DND requirements and may be discontinued by DND site representative at any time without notice, without acceptance of any liability for damage or delay caused by such withdrawal of temporary services.
- .5 After the temporary service lines are no longer required, the Contractor must remove all lines and equipment, restore the connection points to their original condition and return the land to its original contour.

1.20 HEATING AND
VENTILATING

- .1 Provide temporary heat and ventilation as required to:
 - .1 facilitate progress of work;
 - .2 protect work and products against dampness and cold;
 - .3 prevent moisture condensation on surfaces;
 - .4 provide ambient temperatures and humidity levels for storage, installation and curing of materials; and
 - .5 provide adequate ventilation to meet health regulations for safe working environment.
- .2 Maintaining strict supervision of operation of temporary heating and ventilating equipment to:
 - .1 conform with applicable codes and standards;
 - .2 enforce safe practices;
 - .3 prevent abuse of services;

<u>1.20 HEATING AND VENTILATING (Cont'd)</u>	.2	(Cont'd)
	.4	prevent damage to finishes; and
	.5	vent direct-fired combustion units to outside.
<u>1.21 INSPECTION</u>	.1	All work and materials covered by this specification will be subject to inspection at any time by the Departmental Representative or his/her representative.
<u>1.22 ADDITIONAL DRAWINGS</u>	.1	Departmental Representative may provide additional drawings for clarification. These additional drawings have same meaning and intent as if they were included with plans referred to in Contract documents.
<u>1.23 REPORTING IRREGULARITIES</u>	.1	The Contractor must notify immediately the Departmental Representative of irregularities in the work area, such as accidents, spills, structural defects, mechanical and/or electrical problems and/or any beyond the scope of work.
<u>PART 2 - PRODUCTS</u>		
<u>2.1 NOT USED</u>	.1	Not used.
<u>PART 3 - EXECUTION</u>		
<u>3.1 NOT USED</u>	.1	Not used.

END OF SECTION

PART 1 - GENERAL

1.1 WORK SAFETY
MEASURES

- .1 Observe and enforce construction safety measures by complying with the requirements of the following statutes and authorities:
 - .1 Canada Labour Code Part II and the Canada Occupational Health and Safety Regulations;
 - .2 Nova Scotia Occupational Health and Safety Act and supporting Occupational General Safety Regulations as amended from time to time;
 - .3 most recent amendments to the National Building Code of Canada, Part 8 and National Fire Code of Canada;
 - .4 Health Canada/Workplace Hazardous Materials Information System (WHMIS).
- .2 Refer to Section 01 35 35 DND Fire Safety Requirements.
- .3 Departmental Representative will provide a copy of any relevant special written instructions to be followed.
- .4 Before Work Begins
 - .1 Bidder/Tender to provide documentation if requested by the Crown, indicating all safety training attained for each person who will be involved with the requirements.
- .5 The following disciplinary measures will be taken for any violations of safety under this requirement:
 - .1 First Violation:
 - .1 Verbal warning issued to the Contractor for the first violation of a safety regulation (Violation will be documented on Standing Offer file, copy to Contractor and PSPC.).
 - .2 Second Violation:

- 1.1 WORK SAFETY MEASURES
(Cont'd)
- .5 (Cont'd)
- .2 (Cont'd)
- .1 Written warning to Contractor for second violation of a safety regulation (Violation will be documented on Standing Offer file, copy to Contractor and PSPC.).
- .3 Third Violation:
- .1 A third violation of a safety regulation may result in the termination of the Standing Offer Agreement.
- .4 Serious Violation:
- .1 For a serious violation of a safety regulation as deemed by a regulator, project manager or safety officer a recommendation will be made to the Contracting Authority to immediately terminate the Contract/Standing Offer (Violation documented on Standing Offer file, copy to Contractor and PSPC.).
- 1.2 HAZARD ASSESSMENTS
- .1 Contractor must implement and carry out a health and safety hazard assessment program as part of the Work. Program to include:
- .1 Initial Hazard Assessment:
- .1 Carried out upon notification of Contract award and/or prior to commencement of Work.
- .2 On-going Hazard Assessments:
- .1 Performed during the progress of Work identifying new or potential health risks and safety hazards not previously known. As a minimum, hazards assessments must be carried out when:
- .1 new sub-trade work, new sub-contractor(s) or new workers arrive at the site to commence another portion of the Work;
- .2 the scope of Work has been changed;
- .3 Work conducted in confined spaces; and/or

1.2 HAZARD ASSESSMENTS
(Cont'd)

- .1 (Cont'd)
- .2 (Cont'd)
- .4 potential hazard or weakness in current health and safety practices are identified by the Departmental Representative.
- .2 Hazard assessments will be project and site specific, based on review of documents and site.
- .3 Each hazard assessment to be made in writing. Keep copies of all assessments on site for duration of Work. Upon request, make available to Departmental Representative.
- .4 The Contractor must notify the Departmental Representative of suspected hazardous material during work and not apparent from drawings, specifications, or report pertaining to work (e.g. lead, asbestos etc.). Do not disturb such material pending instructions from the Departmental Representative. The Departmental Representative will make the necessary arrangements for testing the material as required.

1.3 ASBESTOS PRODUCT &
ASBESTOS ACTIVITY

- .1 Within the confines of the Base/Unit, the provision of new products containing fibrous asbestos materials is prohibited.
- .2 Demolition or disturbance of spray or trowel-applied asbestos can be hazardous to health. Should material resembling spray or trowel-applied asbestos be encountered in course of work, stop work and notify Departmental Representative immediately. Do not proceed until written instructions have been received from Departmental Representative.

1.4 HAZARDOUS MATERIAL
SPILL

- .1 The Contractor or sub-contractors must report to the DND Fire Department and the Departmental Representative for any incident or spill involving hazardous materials (HAZMAT).
- .2 In the event of a hazardous material spill, the following procedures for initial actions must be followed:
 - .1 ensure safety of all personnel;
 - .2 assess spill hazards and risks;

- 1.4 HAZARDOUS MATERIAL .2 (Cont'd)
SPILL
(Cont'd)
- .3 ventilate area if release is indoors and remove all sources of ignition;
 - .4 stop the spill if safely possible (e.g. shut off pump, replace cap, tip drum upward, patch leaking hole etc.).
 - .5 no matter the volume is, contact the DND Fire Department and provide the following information:
 - .1 time of the spill;
 - .2 location;
 - .3 special considerations:
 - .1 personal safety;
 - .2 environmental.
 - .4 type and amount of spill;
 - .5 person reporting the spill:
 - .1 name;
 - .2 company; and
 - .3 telephone number.
 - .6 contain the spill;
 - .7 isolate the area as required;
 - .8 provide Material Safety Data Sheets (MSDS) to DND Fire Department and Departmental Representative;
 - .9 contact the Departmental Representative; and
 - .10 clean up minor spills using appropriate protective equipment and supplies.

1.5 FASTENING DEVICES
EXPLOSIVE ACTUATED

- .1 Explosive actuated devices must not be used without the approval of the Departmental Representative.
- .2 Operator must have the appropriate training before using the explosive actuated device.
- .3 Follow the manufacturer's safety guidelines and ensure the applicable personal protective equipment is used.

1.6 HOT WORK

- .1 All hot work activity is to take place with Departmental Representative's approval and written permission from the DND Fire Department (hot work permit). Hot work permits and fire watch requirements will be provided by the DND Fire Department.
- .2 The ventilation system in the area of any hot work is to be isolated to prevent migration of fumes/smoke and to reduce any possible spread of fire to other areas of the facility.
- .3 Contractor is to employ an employee trained in the use of fire extinguishers as fire watch during any hot work for a minimum of 30 minutes after activity has ceased.

1.7 CONFINED SPACES

- .1 All work in confined spaces will be carried out in compliance with the Canada Occupational Safety and Health Regulations, Part XI.
- .2 The Contractor to provide and maintain all equipment as required by any person to enter and/or perform work in a safe manner, in compliance with the Canada Occupational Safety and Health Regulations, Part XI.
- .3 The Contractor to provide and maintain training, as required by the Canada Occupational Safety and Health Regulations, Part XI.
 - .1 The personnel entering and working in confined spaces must have at all times valid certifications when working in confined spaces. The employees must provide proof of training and qualifications when requested by Departmental Representative or the Safety Officer.

1.7 CONFINED SPACES
(Cont'd)

- .4 The Contractor to provide the Departmental Representative with a copy of an "entry permit" for each and every entry into the confined space to ensure compliance with the Canada Occupational Safety and Health Regulations, Part XI.
- .5 The Contractor to have a hazard assessment of the confined space performed.
 - .1 The Contractor to provide the Departmental Representative with a copy of the hazard assessment.
- .6 The Contractor must have a written rescue plan posted on site.
- .7 Contractor must inform DND Fire Department and Central Heating plant before entering any service tunnel.

1.8 FALL PROTECTION

- .1 All work carried out above the mandatory height restrictions, from unguarded structure and/or scaffolding, will be done in compliance with the Canada Occupational Safety and Health Regulations, Part XII, Section 12.10.
- .2 The components of a fall protection system must meet the standards as outlined in the Canada Occupational Safety and Health Regulations, Part XII, Section 12.10 (2).
- .3 The Contractor is to ensure fall protection equipment is maintained, inspected and tested by a qualified technician as required by the Canada Occupational Safety and Health Regulations, Part XII, Section 12.3.

1.9 ARC FLASH

- .1 The Contractor is to ensure all electrical equipment such as switchboards, panel boards, motor control centres and meter socket enclosures be marked to warn persons of potential electric shock and arc flash hazards. This labeling is required for all new and modified installations.
- .2 The warning label must also include information regarding "arc flash hazard category (0 to 4)" and the "Flash Protection Boundary" as defined in NFPA 70E. All projects specifications must include short circuit study and flash hazard analysis.

- 1.9 ARC FLASH (Cont'd) .3 In accordance with the CSA Standards Z462 Workplace Electrical Safety, electrical Contractors are required to perform a shock and flash hazard analysis to select the appropriate PPE to wear. Electrical contractors are required arc-rated personal protective equipment while troubleshooting and diagnostic testing that cannot be performed unless the electrical conductor or circuit part is energized. All Contractor work practices must protect each employee from arc flash and from contact with live parts directly with any part of the body or indirectly through some other conductive object.
- 1.10 SAFETY .1 It is the Contractor's responsibility to be familiar with all applicable safety acts, regulations, codes and requirements. These must be identified and addressed in the safety plan, by identifying Standard Operating Procedures (SOP) and safe work practices (SWP) which incorporate clear and specific control measures, applicable rules, procedures and practices, all of which will become mandatory.
- .2 The Contractor must ensure all workers and authorized persons entering the work site are notified of and abide by the posted safety plan, safety rules, procedures, safe work practices and applicable safety acts, regulations, and codes. Any person not complying with these will not be permitted on the site.
- .3 Contractor must ensure that all applicable personal protective equipment (PPE) is used.
- .1 All personnel are required to wear hard hats, in accordance with CSA Z94.1, Industrial Protective Headwear.
- .2 All personnel are required to wear safety footwear, in accordance with CSA Z195, Protective Footwear.
- .3 All personnel are required to wear eye and face protection, in accordance with CSA Z94.3.1, Selection, Use, and Care of Protective Eyewear.
- .4 When and where noise level is above 85 decibels; all personnel are required to wear hearing protection, in accordance with CSA Z94.2, Hearing Protection Devices - Performance, Selection, Care and Use.

-
- 1.10 SAFETY
(Cont'd)
- .3 (Cont'd)
- .5 Where toxic or noxious gas fumes, or oxygen deficiency or excessive dust may occur, so as to create a hazard to life, safety or health; all personnel are required to wear respiratory protection, in accordance with CAN/CSA Z94.4, Selection, Use, and Care of Respirators.
- .4 The Departmental Representative will coordinate arrangements for the Contractor to be briefed on site safety within 14 days of award of Standing Offer Agreement.
- 1.11 SECURITY INCIDENT
RESPONSE
- .1 Security incident can be defined as any fact or event which could affect your personal or organizational security.
- .2 When performing Work on the premises of CFB Halifax, security incidents or threats could occur at any time such as bomb threats, active intruder, lockdowns etc.
- .3 When a security incident occurs, the Contractor shall:
- .1 stop the work safely;
- .2 account for all your personnel in a secure area;
- .3 report to the building main office or facility manager for further directives; and
- .4 call the Departmental Representative.
- .4 The above actions must be taken also during Base/Unit security training exercises.
- 1.12 SITE SIGNS AND
NOTICES
- .1 Safety and instruction signs and notices:
- .1 Signs and notices for safety and instruction must be in both official languages. Graphic symbols must conform to latest version of "Signs and Symbols for the Workplace".

PART 2 - PRODUCTS

2.1 NOT USED .1 Not used.

PART 3 - EXECUTION

3.1 NOT USED .1 Not used.

PART 1 - GENERAL

- | | | |
|------------------------------------|----|--|
| <u>1.1 EMERGENCY REPORTING</u> | .1 | Telephone numbers for emergency reporting will be provided by the Departmental Representative at the fire safety briefing. |
| <u>1.2 FIRE SAFETY ENFORCEMENT</u> | .1 | Within the confines the Base/Unit, the prescription and enforcement of mandatory fire safety measures will be exercised under the authority of the DND Fire Department. |
| | .2 | Comply with and enforce compliance by all Contractor personnel with all requirements of this specification section, and with the most recent edition of the National Building Code of Canada (NBC) and the National Fire Code of Canada (NFC), including all subsequent revisions issued by the National Research Council of Canada. |
| <u>1.3 FIRE SAFETY BRIEFING</u> | .1 | Prior to commencement of work under this requirement, the Departmental Representative will arrange a meeting of all parties concerned to review and clarify requirements for fire safety measures. This may involve a briefing by the DND Fire Department. |
| <u>1.4 FIRE WATCH</u> | .1 | For hot work activity, the Contractor will provide the service of fire-watch persons on a scale and schedule as prescribed by the DND Fire Department at the time of issuance of the hot work permit. |
| <u>1.5 FIRE EXTINGUISHERS</u> | .1 | Supply fire extinguishers, as scaled by the DND Fire Department, necessary to protect work in progress and Contractor's physical plant on site. |
| <u>1.6 SMOKING PRECAUTIONS</u> | .1 | Smoking not permitted on DND property except in designated smoking areas. This includes smoking in passenger motor vehicles. |
| | .2 | In accordance with these fire safety requirements particular to the work area and site, the Departmental Representative and the DND Fire Department will designate hazardous areas as well as non-restricted areas where smoking may be permitted. |

-
- 1.6 SMOKING PRECAUTIONS
(Cont'd)
- .3 Smoking is prohibited in all buildings.
- .4 In all other areas, exercise care and comply with written or oral directives of the Departmental Representative for the use of smoking materials.
- 1.7 REPORTING FIRES
- .1 Report immediately all fire incidents as follows:
- .1 activate nearest fire alarm box; or
 - .2 dial 9-1-1 or designated number given at the time of briefing; and
 - .3 telephone the Departmental Representative.
- .2 Person activating fire alarm must remain at the alarm to direct the Fire Department to the scene of the fire.
- .3 When reporting fire by telephone, give location of fire, name and number of building and be prepared to direct the Fire Department to the scene of the fire.
- 1.8 INTERIOR AND EXTERIOR FIRE PROTECTION AND ALARM SYSTEMS
- .1 Notify DND Fire Department at least 48 hours prior to scheduling any work that may require fire alarm and/or protection systems to be:
- .1 obstructed in any way;
 - .2 shut-off; and/or
 - .3 left inactive at end of working day or shift without authorization from DND Fire Department.
- .2 Do not commence any such work until Departmental Representative confirms approval and direction by the DND Fire Department.
- .3 Fire hydrants, standpipes and hose systems will not be used for other than fire fighting purposes unless authorized by the Departmental Representative and the DND Fire Department.

-
- 1.9 BLOCKAGE OF ACCESS FOR FIRE APPARATUS
- .1 Advise DND Fire Department of work that would impede fire apparatus response. This includes violation of minimum overhead clearance, as prescribed by the DND Fire Department, erecting of barricades and digging of trenches.
- 1.10 RUBBISH AND WASTE MATERIALS
- .1 Keep rubbish and waste materials at minimum quantities.
- .2 Storage:
- .1 Where it is necessary to store oily waste in work areas exercise extreme care to ensure maximum possible safety and cleanliness.
- .2 Deposit greasy or oily rags and materials subject to spontaneous combustion in approved receptacles approved by the DND Fire Department and removed as directed by the Departmental Representative.
- .3 Burning of rubbish is prohibited.
- .4 Removal:
- .1 Remove rubbish from work site at end of work day or shift or as directed by the Departmental Representative.
- 1.11 FLAMMABLE AND COMBUSTIBLE LIQUIDS
- .1 Handling, storage and use of flammable and combustible liquids governed by current National Fire Code of Canada and guided by the requirements established by the DND Fire Department.
- .2 Keep flammable and combustible liquids such as gasoline, kerosene and naphtha for ready use in quantities not exceeding 30 litres provided they are stored in approved safety cans bearing Underwriters' Laboratory of Canada or Factory Mutual seal of approval. Storage of quantities of flammable and combustible liquids exceeding 30 litres for work purposes requires permission of DND Fire Department.
- .3 The Departmental Representative reserves the right to require removal from the site any storage containers not acceptable to the DND Fire Department.

1.11 FLAMMABLE AND
COMBUSTIBLE LIQUIDS
(Cont'd)

- .4 Transfer of flammable and combustible liquids is prohibited within buildings or jetties.
- .5 Transfer of flammable and combustible liquids will not be carried out in vicinity of open flames or any type of heat producing devices.
- .6 Do not use flammable liquids having flash point below 38 degrees C such as naphtha or gasoline as solvents or cleaning agents.
- .7 Store flammable and combustible waste liquids, for disposal, in approved containers located in safe ventilated area. Keep quantities minimum and DND Fire Department is to be notified when disposal is required.

1.12 HAZARDOUS
SUBSTANCES

- .1 Work entailing use of toxic or hazardous materials, chemicals and/or explosives, or otherwise creating hazard to life, safety or health, in accordance with National Fire Code of Canada, and measures prescribed by the DND Fire Department.
- .2 Obtain from DND Fire Department a "hot work" permit for work involving welding, burning or use of blowtorches and salamanders, in buildings or facilities.
- .3 When Work is carried out in dangerous or hazardous areas involving use of heat, provide fire watchers equipped with sufficient fire extinguishers. Determination of dangerous or hazardous areas along with level of protection necessary for fire watch is at discretion of DND Fire Department. Contractors are responsible for providing fire watch service for work on scale established and in conjunction with DND Fire Department at pre-work meeting.
- .4 Provide ventilation where flammable liquids, such as lacquers or urethanes are used, eliminate sources of ignition. Inform DND Fire Department prior to and at cessation of such work.

1.13 FIRE INSPECTION

- .1 Co-ordinate site inspections by DND Fire Department through the Departmental Representative.
- .2 Allow DND Fire Department unrestricted access to work site.
- .3 Co-operate with DND Fire Department during routine fire safety inspection of work site.

1.13 FIRE INSPECTION .4 Immediately remedy unsafe fire situations observed by DND Fire
(Cont'd) Department.

PART 2 - PRODUCTS

2.1 NOT USED .1 Not used.

PART 3 - EXECUTION

3.1 NOT USED .1 Not used.

PART 1 - GENERAL

- 1.1 GENERAL
- .1 The Contractor must ensure that all their personnel are familiar with these regulations and requirements.
 - .2 The following is a summary the security, safety and fire regulations Canadian Forces Ammunition Depot (CFAD) Bedford, as promulgated by the Base Commander of CFB Halifax and administered by the Superintendent CFAD Bedford, NS.
 - .3 Contractor's personnel will be subject to all of the regulations while working within confines of CFAD Bedford.
- 1.2 PRE JOB SECURITY AND SAFETY MEETING
- .1 Prior to commencement of Work, the Contractor must meet with the site security, safety and fire regulations officers. In accordance with direction of Departmental Representative and these site officers, ensure that all employees of the Contractor are given thorough instructions on security, safety and fire precautions peculiar to an ammunition depot and that the regulations are fully complied with, at all times, by all Contractor personnel.
- 1.3 SECURITY PASSES
- .1 Contractors must report to the NCO I/C Commissionaires at building 153; submit names of all their personnel and description of all their vehicles to arrange the issue of the required temporary passes prior to proceeding to work within the confines of the Depot.
- 1.4 CONDITIONS FOR ACCESS
- .1 All visitors will be issued a visitor's pass and will be required to sign acknowledgement that they are aware of and consent to the following conditions for access.
 - .2 Contractor will be escorted by a commissionnaire or CFAD employee in order to access the site.
 - .3 All persons to whom this pass is issued agrees to return the pass to the security guard at the gate when the Contract or employment at CFAD Bedford expires.
 - .4 All vehicles entering and leaving CFAD Bedford may be searched to ensure that no prohibited articles are taken into nor contraband articles are taken out of the ammunition depot.

- 1.5 FIRE SERVICE CFAD BEDFORD .1 Fire service at CFAD Bedford is provided by the DND Fire Service from 0730 until 1600 hours, Monday to Friday. All Contract work will be ended by 1530 hours daily. Fire response at all other times is provided by HRM. Before any work is carried out during silent hours, the Dockyard Platoon Chief must be contacted at 427-0550, local 3500.
- 1.6 SEARCHES .1 The Canadian Corps of Commissionaires may conduct a personal search of individuals at any time within the Ammunition Depot. Vehicles entering or leaving the Depot may be searched to ensure that contraband articles are not taken into the explosives area and that property is not taken out without authorization.
- 1.7 ALARMS .1 Depot Alarms:
- .1 A siren is sounded only in the event of an emergency such as a fire, explosion, thunderstorm or evacuation. A siren is also sounded to signify "All Clear".
- .2 Fire Emergency:
- .1 A series of "Hi-Lo" sounds on the Depot alarm system signifies an emergency in the explosive area. Contractors must cease operations and proceed in their own vehicles to the nearest exit gate out of the explosive area. If no vehicle available proceed to the nearest "Fire Assembly Point" at buildings 169 or 143.
- .3 Thunder and Lightning:
- .1 A series of "Beeps" on the Depot alarm system signifies a thunder/lightning storm warning. Contractors must cease operations and proceed in their own vehicles to the nearest exit gate out of the explosive area. If no vehicle available proceed to the nearest "Fire Assembly Point" at buildings 169 or 143.
- .4 Evacuation:

- 1.7 ALARMS
(Cont'd)
- .4 (Cont'd)
- .1 A series of "Slow Whoops" on the Depot alarm system signifies that evacuation in the explosive area has been ordered by the Superintendent. The evacuation could be extended to include the non-explosive area as well as so ordered by the Superintendent.
- .5 All Clear:
- .1 A continuous blast on the Depot alarm system signifies that the emergency situation is "All Clear".
- 1.8 REPORTING OF FIRES
- .1 All fires, regardless of whether they have been extinguished or not, must be reported immediately to the Base Fire Department.
- .2 All Contractors and employees must familiarize themselves with the locations of the nearest fire alarm box or telephone.
- .3 Fires may be reported by ringing the nearest street alarm box or by telephoning 9-1-1. Persons reporting the fire must remain at the alarm box or telephone until the Fire Department arrives and be prepared to direct fire fighters to the scene of the fire.
- 1.9 PROHIBITED ARTICLES
- .1 The following articles are prohibited and/or controlled from being taken inside the explosive area. Permission by the Superintendent may be granted for certain articles:
- .1 matches or other flame producing equipment (including vehicle lighters);
- .2 pipes, smoking appliances, tobacco products, or smoking materials in any form;
- .3 explosives or chemicals;
- .4 lights, lamps or electrical devices/tools which are not explosion proof;
- .5 cameras;
- .6 food and drink; and

1.9 PROHIBITED ARTICLES
(Cont'd)

- .1 (Cont'd)
- .7 radio transmitting devices (i.e. mobile radios, cellular phone phones, remote car starters, and garage door openers, etc).
- .2 No persons will introduce, possess or consume alcoholic beverages, narcotics or any intoxicant within the confines of the Ammunition Depot.
- .3 The site security officers will seize and hold at the gate, any such materials found by search.

1.10 SAFETY AND FIRE
REGULATIONS

- .1 Smoking:
 - .1 Is strictly prohibited in explosive areas.
- .2 Buildings:
 - .1 Smoking is prohibited in all buildings.
- .3 Safety Precautions Electrical/Electronic Equipment:
 - .1 All personnel operating or maintaining electrical/electronic equipment involving the use of voltage higher than 50 V must brief the site safety and fire safety officers concerning all safety rules in the operating and instructional manuals covering the equipment.
- .4 Flammables, Explosives or Chemicals:
 - .1 As required, may be allowed into the explosive area provided that the Depot Safety Officer and the Depot Fire Department are made aware of this and that approval by the Superintendent is given. These items after approval may be transported by the Contractors provided the transportation route is known by the Depot Fire Department and adequate fire extinguishers are available.
- .5 Open Flame or Welding:

1.10 SAFETY AND FIRE
REGULATIONS
(Cont'd)

- .5 (Cont'd)
- .1 Prior approval must be obtained before commencing any work involving cutting, welding or use of open flame appliances in or around buildings containing explosives. The Fire Safety Officer will check out the work area and ensure that adequate fire extinguishers and first aid appliances are available and that fire watchers have been posted.
- .6 Fuel Dispensing Containers:
- .1 Contractors must ensure that all of their fuel dispensing containers meet or exceed the following standards:
- .1 type II safety container, leakproof, Terne plate construction, UL listed and FM approved;
- .2 container must have spring-operated spout cap which opens to allow vapours to escape and self closes on release of internal pressures;
- .3 container must have flexible or rigid built-in metal dispensing nozzle to prevent static sparks;
- .4 standard of Acceptance: Protectoseal, model nos. 247, 249, 8410 and 8420;
- .5 other acceptable products: Safe-T-Way; and
- .6 any other model must be approved by the DND Fire Department.
- .7 Violation of any of the above regulations will result in immediate cancellation of the offender's security pass and expulsion from the site.

1.11 TRAFFIC REGULATIONS

- .1 Vehicles:
- .1 All operators must adhere strictly to the following rules while proceeding through the Ammunition Depot:
- .1 drivers must not leave the motors of their vehicles running or leave the vehicles unattended when parked between buildings or traverses;

1.11 TRAFFIC REGULATIONS
(Cont'd)

- .1 (Cont'd)
 - .1 (Cont'd)
 - .2 drivers must not drive vehicles in the direction opposite to that indicated by the "One-way" signs;
 - .3 no one will operate a vehicle within the Depot area at a speed greater than 25 kilometres per hour at any time;
 - .4 no one will operate a vehicle within the Depot area at a speed greater than 8 kilometres per hour at any time, while passing between blast walls and buildings;
 - .5 no one will leave a vehicle unattended within 10 metres of a fire hydrant or within 30 metres of a building containing explosives; and
 - .6 all vehicles must be equipped with a fire extinguisher of a suitable size and type so that it may be used to extinguish any fire originating in that vehicle.
 - .2 Violation of any of the above regulations will result in immediate cancellation of the offender's vehicle pass and expulsion from the site.
- .2 Roadways:
 - .1 In the event of a fire or emergency all roads and buildings within CFAD Bedford must be accessible at all times. Contractors required to disrupt roadways during the course of their work, must ensure that at least one lane of each roadway is passable, at all times. Vehicles not required to transport personnel to the nearest exit gate must be parked on the side of the road and away from the nearest building.
- .3 Fueling:

- 1.11 TRAFFIC REGULATIONS (Cont'd) .3 (Cont'd)
- .1 Fueling of vehicles within the explosive areas is prohibited. Small equipment (lawn mowers, chainsaws, etc.) may be re-fueled, but only at sites designated by the Safety Officer and Fire Safety Officer. Comply with all safety practices pertaining to re-fueling hot equipment. Provide adequate fire extinguishers of types prescribed by the Fire Safety Officer. Only approved safety dispensing containers, as specified at sub-paragraph 1.10.6, will be permitted within the confines of the Ammunition Depot.
 - .4 Violation of any of the above regulations will result in immediate cancellation of the vehicle pass and expulsion of the offender from the site.

PART 2 - PRODUCTS

- 2.1 NOT USED .1 Not used.

PART 3 - EXECUTION

- 3.1 NOT USED .1 Not used.

PART 1 - GENERAL

1.1 SITE ACCESS .1 Contractor's personnel are required to report to the main desk each morning, sign the register and obtain an identification badge which must be displayed on their person at all times. Upon leaving the Complex at the end of the day, or at lunch time, the Contractor's personnel must report to the main desk, return the badge and be signed off the register.

1.2 PARKING .1 Contractor's vehicles will be allowed into the inner compound only under the following conditions; namely, for short periods of time, to load or unload equipment and supplies and then remove to the visitor's parking lot area or to the adjacent street. The site supervisor of the contracting firm will be allowed to park his/her vehicle, for short periods of time, in one of the visitor's parking slots or, if filled, he/she will be permitted to park in the inner compound while making periodic progress visits. It is emphasized that contractors' vehicles entering the inner compound can be subject to search by the Commissionaire on duty upon their departure. DRDC Atlantic reserves the right to limit the above-mentioned parking privileges if they are being abused.

PART 2 - PRODUCTS

2.1 NOT USED .1 Not used.

PART 3 - EXECUTION

3.1 NOT USED .1 Not used.

END OF SECTION

PART 1 - GENERAL

- 1.1 DEFINITIONS .1 Environmental Pollution and Damage:
- .1 Presence of chemical, physical, biological elements or agents which adversely affect human health and welfare; unfavourably alter ecological balances of importance to human life; affect other species of importance to humans; or degrade environment aesthetically, culturally and/or historically.
- .2 Environmental Protection:
- .1 Prevention/control of pollution and habitat or environment disruption during construction.
- 1.2 FIRES .1 Fires and burning of rubbish on site is not permitted.
- 1.3 DISPOSAL OF WASTE .1 Do not dispose of waste or volatile materials, such as mineral spirits, oil or paint thinner into waterways, storm or sanitary sewers.
- .2 Do not bury rubbish and waste materials on site.
- .3 All spills must be reported immediately to the Departmental Representative and cleanup will be done at Contractor's expense.
- 1.4 DRAINAGE .1 Provide temporary drainage and pumping required to keep excavations and site free from water.
- .2 Ensure pumped water into waterways, sewer or drainage systems is free of suspended materials.
- .3 Control disposal or runoff of water containing suspended materials or other harmful substances in accordance with local authority requirements.
- 1.5 SITE CLEARING AND PLANT PROTECTION .1 Protect trees and plants on site and adjacent properties as indicated.

<u>1.5 SITE CLEARING AND PLANT PROTECTION (Cont'd)</u>	.2	Protect trees and shrubs adjacent to construction work, storage areas and trucking lanes, and encase with protective wood framework from grade level to height of 2 m minimum.
	.3	Protect roots of designated trees to dripline during excavation and site grading to prevent disturbance or damage.
	.1	Avoid unnecessary traffic, dumping and storage of materials over root zones.
	.4	Minimize stripping of topsoil and vegetation.
	.5	Restrict tree removal to areas indicated or designated by the Departmental Representative.
<u>1.6 WORK ADJACENT TO WATERWAYS</u>	.1	Construction equipment to be operated on land only.
	.2	Waterways to be kept free of excavated fill, waste material and debris.
<u>1.7 POLLUTION CONTROL</u>	.1	Control emissions from equipment and plant in accordance with local authorities' emission requirements.
	.2	Cover or wet down dry materials and rubbish to prevent blowing dust and debris. Provide dust control for temporary roads.
<u>PART 2 - PRODUCTS</u>		
<u>2.1 NOT USED</u>	.1	Not used.
<u>PART 3 - EXECUTION</u>		
<u>3.1 NOT USED</u>	.1	Not used.

END OF SECTION

PART 1 - GENERAL

1.1 REFERENCES

- .1 Canada Occupational Health and Safety Regulations, Part XI (latest edition including all amendments).
- .2 CSA Z1006 Management of work in confined spaces.
- .3 American Conference of Governmental Industrial Hygienists publication "Threshold Limit Values For Chemical Substances and Physical Agents and Biological Indices" (latest edition including all amendments).

1.2 DESCRIPTION

- .1 This section outlines the mandatory regulations which must be followed to ensure safe operations in and around potentially hazardous confined spaces and the emergency procedures that are to be followed.
- .2 The safety standards in this section are applicable to contractors and consultants, their employees (including subcontractors), materials, works and buildings throughout CFB Halifax.
- .3 All personnel entering a confined space, acting as an observer, or as a rescuer will be thoroughly trained in all procedures in accordance with above reference, No.1.
- .4 The Contractor will be responsible for and ensure compliance with the provisions of this Section and of the Standards in above reference, No.1.

1.3 RESTRICTIONS

- .1 No contractor, subcontractor, consultant, or their employee will:
 - .1 Be permitted to enter a hazardous confined space without receiving an evaluation, written in language which is understood by the employee/Contractor, concerning the level of hazard in the confined space. Entry must be made in compliance with this Section and with the requirements in reference, No.1.
 - .2 Enter a hazardous confined space without a safe entry permit posted at the site of work and a copy on file.

1.4 DEFINITIONS

- .1 For the purpose of this section the following definitions will apply:
 - .1 Confined space:
 - .1 A tank, process vessel, underground vault, tunnel or other enclosure not designed or intended for human occupancy, except for the purpose of performing work:
 - .1 that has limited number of openings for entry and exit;
 - .2 that has poor natural ventilation;
 - .3 in which there may be an oxygen deficient atmosphere; or
 - .4 in which there may be an airborne dangerous substance.
 - .2 Dangerous substance:
 - .1 A hazardous substance or a chemical, physical or biological agent that, because of a property it possesses, is hazardous to the safety or health of a person exposed to it.
 - .3 Qualified person:
 - .1 In respect to a specified duty, a person who, because of their knowledge, training and experience is qualified to perform that duty safely and properly.
 - .4 Class of confined space:
 - .1 A group of at least two confined spaces that are likely, by reason of their similarity, to present the same hazards to persons entering, exiting or occupying them. Confined spaces are identified as Class A, B, or C by DND depending on hazard assessment.
 - .1 Class A - Hazardous confined space:

1.4 DEFINITIONS
(Cont'd)

.1 (Cont'd)
.4 (Cont'd)

.1 Any confined space that cannot be made safe by ventilation and maintained in this safe condition even when lock-out, blank and bleed, and all other actions have been taken.

.2 Class B - Confined space:

.1 Hazards exist but can be eliminated by ventilation, lock-out, and blank and bleed.

.3 Class C - Considered confined space:

.1 Conditions could arise to make the area a confined space.

1.5 COMMON HAZARDS

.1 Hazards common to confined spaces that Contractors must watch for are:

- .1 toxic vapours from sludge or leakage into the space;
- .2 flammable gases and vapours with potential fire or explosion hazards;
- .3 oxygen below 19.5 % or over 23 % (normal 20.9 %);
- .4 electric shock from tools, lights or other electrical equipment;
- .5 chemical burns from corrosives or injury from dermatitis producing materials;
- .6 burns from high pressure steam, hot water or fuel oil;
- .7 high pressure air;
- .8 physical hazards from slips, falls, protruding objects or falling objects; and
- .9 excess corrosion on metal components.

- 1.6 SAFE ENTRY PERMIT .1 Where the Contractor must enter a confined space, a safe entry permit must be provided to the Departmental Representative, completed in triplicate and returned to the Departmental Representative before access will be permitted. One copy must be posted at site of work. Original copy must be sent to the Unit General Safety Officer.
- 1.7 VERIFICATIONS .1 Prior to entering a confined space the Contractor must provide a qualified person to ensure/verify:
- .1 That there are openings for entry and exit from the confined space of sufficient size to allow the safe passage of a person using protective equipment. This opening can be:
 - .1 a manhole; or
 - .2 other clear opening.
 - .2 That the entry of any liquid or free flowing solid or hazardous material has been prevented by secure means of disconnection or by blanking off the flanges from any source of these materials. In addition, that any liquid in which the person could drown, or free flowing solid in which they could be entrapped, has been removed.
 - .3 That all electrical/mechanical equipment which may present a hazard to the person has been disconnected from it's power source, either real or residual, and has been locked out in the off position by the person entering the space. Note: The key must be held by the person who locked out the equipment until such time as the work is complete and the lock out is removed by the individual. As well, the removal of fuses is encouraged.
 - .4 Tests for oxygen levels, combustibility, and toxicity of hazardous substances (in that order) are conducted and evaluated (e.g. oxygen, explosive gases or vapours, hydrogen sulfide, and then carbon monoxide).
 - .1 Tests for oxygen levels and combustibility and toxicity must be made with a probe at the point of entry to the confined space with cover in place. If no hazard is detected the cover will then be removed.

1.7 VERIFICATIONS
(Cont'd)

- .1 (Cont'd)
- .4 (Cont'd)
 - .2 If oxygen deficient, combustible atmosphere, or toxic substances are detected, the space must not be entered until such time as the space is rendered safe through appropriate purging and ventilation.
 - .3 The entire space will then be tested for oxygen deficiency, combustibility and toxicity. Note: In the event the possibility exists for oxygen deficiency, combustible atmosphere or the presence of hazardous substances which could exceed allowable limits, despite purging and ventilation, these tests will only be conducted by a person who is wearing the required personal protective equipment (PPE) such as air supplied respirator, gloves/hand protection, harness, etc. (if tests are to be done in the confined space).
- .5 That verification, by means of tests, is conducted to ensure that the following specifications can be achieved and maintained during the duration of time the person will be in the confined space, namely:
 - .1 The concentration of any chemical agent, or combination of chemical agents in the confined space to which the person is likely to be exposed:
 - .1 will not result in a value exceeding the value for that chemical agent, or for any chemical agent in the combination of chemical agents, other than grain dust, as prescribed by reference No.2;
 - .2 will not result in an airborne grain dust, respirable and non respirable, in excess of 10 mg/m³, subject to para. 1.8.1.5.2; and
 - .3 is less than 50 percent of the lower explosive limit of the chemical agent or combination of chemical agents, subject to para. 1.8.1.5.2.

1.7 VERIFICATIONS
(Cont'd)

- .1 (Cont'd)
- .5 (Cont'd)
 - .2 Where a source of ignition exists the concentration does not exceed 10 percent of the lower explosive limit of the airborne chemical agent or combination of airborne chemical agents.
 - .3 The concentration of airborne hazardous substances, other than chemical agents, in the confined space is not hazardous to the safety or health of the person.
 - .4 The percentage of oxygen in the air in the confined space is not less than 19.5 percent by volume and not more than 23 percent by volume, at normal temperature.
- .6 The space has been purged and ventilated to provide and continue to provide a safe working atmosphere, and that in the event of ventilation equipment failure there is:
 - .1 Sufficient time available for the employee to escape the confined space hazard before contamination of the atmosphere.
 - .2 The ventilation equipment is either equipped with an approved alarm or monitored by an employee who is in constant attendance on the ventilation equipment and in constant contact with the worker (s) in the confined space.
- .7 The qualified person must, in a signed report, set out the results of the preceding sections, including any test results and a list of test equipment used and must ensure these results are given to the Departmental Representative and Safety Officer.

PART 2 - PRODUCTS

2.1 EQUIPMENT

- .1 All PPE identified on the area work permit must be utilized during entry into the confined space. The appropriate PPE depends upon the nature of the exposure, and may include goggles, hardhats, safety footwear, a complete body covering or suitable breathing apparatus. It is stressed that PPE is not a substitute for proper ventilation. Where the Hazard Assessment form deems it necessary, workers must wear an emergency five minute constant air flow self contained breathing apparatus (SKAT-PAK by SCOTT) and must have an air monitoring device with them at all times while in the confined space. Contractor will supply appropriate PPE for their employees.
- .2 A safety harness with an attached lifeline must be worn by all workers, entering a confined space: with only one manhole or opening at the top or where rescue may be difficult; or where dangerous gases, vapours, mists, fumes, dusts, oxygen deficiency or extremes of temperature are likely to be present; or where respiratory protection is necessary. The free end of the lifeline attached must be secured outside the enclosed space. The lifeline must be of sufficient length to reach from an outside support to any point of work inside the confined space, and must be of sufficient strength to bear the weight of the worker. A tripod hoist and lifting device (vertical use only) must be in place prior to and during work in the confined space. Appropriate positive pressure air supplied respiratory protection must be available at the site for use in the rescue/extraction of persons working in the space. Contractor will supply all required rescue equipment.
- .3 Minimum equipment requirement:
 - .1 Class A confined space:
 - .1 Ventilator, multi-gas detector, communication system, safety harness, retrieval system, SCBA or air line system (to be worn at all times), and duplicate equipment above kept at entrance of confined space for emergency rescue.
 - .2 Class B confined space:

- 2.1 EQUIPMENT (Cont'd) .3 (Cont'd)
- .2 (Cont'd)
- .1 Ventilator, multi-gas detector, communication system, safety harness, retrieval system, and SCBA or air line system on hand at entrance of confined space for emergency rescue.
- .3 Class C confined space:
- .1 Multi-gas detector, communication system, and SCAT-PAK.

PART 3 - EXECUTION

- 3.1 CONDITIONS OF ENTRY .1 The following conditions must be met, prior to entry, so that response to any emergency can be made in the shortest time frame:
- .1 A minimum of one person must be posted outside a confined space as an observer and must:
- .1 have no other tasking which would detract from his function of observing the person(s) in the space;
- .2 control the lifeline(s) attached to the person(s) in the space and ensure that the lifeline is attached to a solid object;
- .3 be equipped with a safety harness;
- .4 ensure continuous radio contact with the persons in the space or be able to observe the person(s) in the space (Note: radios are not to be used if combustible atmosphere is present);
- .5 have a means of summoning assistance (qualified personnel) in case of an emergency situation; and
- .6 be trained in rescue procedures and Standard First Aid.

3.1 CONDITIONS OF ENTRY
(Cont'd)

- .1 (Cont'd)
- .2 In addition to the observer, for Class A confined spaces, an additional individual (a rescuer) must be present at the entrance to the confined space. The individual must:
- .1 be wearing all required PPE including harness, lifeline and positive pressure air supplied respiratory protection (where required);
 - .2 be present at all times when person(s) are working in the confined space;
 - .3 be trained in rescue procedures and Standard First Aid; and
 - .4 must not enter the space unless to rescue the person(s) working in the space and only after additional assistance has been summoned and all required protective equipment is worn.
- .3 In the event that the observer or the additional person (rescuer, if present) is required to leave the entrance to the space, the space must be vacated by those working in it until such time as the observer and the additional person return. Before re-entering the confined space, the conditions set out in para 1.7 and 1.8 must be followed.
- .4 The minimum number of persons present during entry into and work in a confined space must be three(3) for Class A confined spaces (worker, observer, and rescuer) and two(2) for Class B and C confined spaces (the worker and the observer). Where conditions warrant, an additional person to respond in emergencies is required.
- .5 The contact for additional assistance will be DND Fire Department at local 427-3333.
- .6 No person will enter any confined space for the purpose of rescuing an individual until they are wearing all required PPE including positive pressure air supplied respiratory protection and an observer is on site.

3.2 TESTING &
MAINTENANCE OF
EQUIPMENT

- .1 All testing equipment, safety harnesses, lifelines, breathing apparatus, ventilation equipment and any other equipment used in connection with entry into a confined space by the Contractor will be inspected, maintained and tested by a qualified person as frequent as is necessary to ensure that it is in safe condition for use at all times, but not less frequent than is recommended by the manufacturer or as directed in writing by the Departmental Representative or Safety Officer.

3.3 REGULATIONS

- .1 In the event of conflict or discrepancy between this Section and the source documents and Canada Occupational Health and Safety Regulations, Part XI the more stringent requirements will apply.

PART 1 - GENERAL

- 1.1 QUALITY
- .1 Products, materials, equipment and articles incorporated in Work must be new, not damaged or defective, and of best quality for purpose intended. If requested, furnish evidence as to type, source and quality of products provided.
 - .2 Defective products, whenever identified prior to completion of Work, will be rejected, regardless of previous inspections. Inspection does not relieve responsibility, but is precaution against oversight or error. Remove and replace defective products at own expense and be responsible for delays and expenses caused by rejection.
 - .3 Should disputes arise as to quality or fitness of products, decision rests strictly with Departmental Representative based upon requirements of Contract Documents.
 - .4 Unless otherwise indicated in specifications, maintain uniformity of manufacture for any particular or like item throughout building.
- 1.2 AVAILABILITY
- .1 Immediately upon signing Contract, review product delivery requirements and anticipate foreseeable supply delays for items. If delays in supply of products are foreseeable, notify Departmental Representative of such, in order that substitutions or other remedial action may be authorized in ample time to prevent delay in performance of Work.
 - .2 In event of failure to notify Departmental Representative at commencement of Work and should it subsequently appear that Work may be delayed for such reason, Departmental Representative reserves right to substitute more readily available products of similar character, at no increase in Contract Price or Contract Time.
- 1.3 STORAGE, HANDLING AND PROTECTION
- .1 Handle and store products in manner to prevent damage, adulteration, deterioration and soiling and in accordance with manufacturer's instructions when applicable.

1.3 STORAGE, HANDLING
AND PROTECTION
(Cont'd)

- .2 Store packaged or bundled products in original and undamaged condition with manufacturer's seal and labels intact. Do not remove from packaging or bundling until required in Work.
- .3 Store products subject to damage from weather in weatherproof enclosures.
- .4 Store cementitious products clear of earth or concrete floors, and away from walls.
- .5 Keep sand, when used for grout or mortar materials, clean and dry. Store sand on wooden platforms and cover with waterproof tarpaulins during inclement weather.
- .6 Store sheet materials, lumber on flat, solid supports and keep clear of ground. Slope to shed moisture.
- .7 Remove and replace damaged products at own expense and to satisfaction of Departmental Representative.
- .8 Touch-up damaged factory finished surfaces to Departmental Representative's satisfaction. Use touch-up materials to match original. Do not paint over name plates.

1.4 TRANSPORTATION

- .1 Pay costs of transportation of products required in performance of Work.
- .2 Transportation cost of products supplied by Owner will be paid for by Departmental Representative. Unload, handle and store such products.

1.5 MANUFACTURER'S
INSTRUCTIONS

- .1 Unless otherwise indicated in specifications, install or erect products in accordance with manufacturer's instructions. Do not rely on labels or enclosures provided with products. Obtain written instructions directly from manufacturers.
- .2 Notify Departmental Representative in writing, of conflicts between specifications and manufacturer's instructions, so that Departmental Representative will establish course of action.

<u>1.5 MANUFACTURER'S INSTRUCTIONS (Cont'd)</u>	.3	Improper installation or erection of products, due to failure in complying with these requirements, authorizes Departmental Representative to require removal and re-installation at no increase in Contract Price or Contract Time.
<u>1.6 REMEDIAL WORK</u>	.1	Perform remedial work required to repair or replace parts or portions of Work identified as defective or unacceptable. Co-ordinate adjacent affected Work as required.
	.2	Perform remedial work by specialists familiar with materials affected. Perform in a manner to neither damage nor put at risk any portion of Work.
<u>1.7 LOCATION OF FIXTURES</u>	.1	Consider location of fixtures, outlets, and mechanical and electrical items indicated as approximate.
	.2	Inform Departmental Representative of conflicting installation. Install as directed.
<u>1.8 FASTENINGS</u>	.1	Provide metal fastenings and accessories in same texture, colour and finish as adjacent materials, unless indicated otherwise.
	.2	Prevent electrolytic action between dissimilar metals and materials.
	.3	Use non-corrosive hot dip galvanized steel fasteners and anchors for securing exterior work, unless stainless steel or other material is specifically requested in affected specification Section.
	.4	Space anchors within individual load limit or shear capacity and ensure they provide positive permanent anchorage. Wood, or any other organic material plugs are not acceptable.
	.5	Keep exposed fastenings to a minimum, space evenly and install neatly.
	.6	Fastenings which cause spalling or cracking of material to which anchorage is made are not acceptable.
<u>1.9 FASTENINGS - EQUIPMENT</u>	.1	Use fastenings of standard commercial sizes and patterns with material and finish suitable for service.

<u>1.9 FASTENINGS - EQUIPMENT (Cont'd)</u>	.2	Use heavy hexagon heads, semi-finished unless otherwise specified. Use No. 304 stainless steel for exterior areas.
	.3	Bolts may not project more than one diameter beyond nuts.
	.4	Use plain type washers on equipment, sheet metal and soft gasket lock type washers where vibrations occur. Use resilient washers with stainless steel.
<u>1.10 REUSABLE</u>	.1	Where the Departmental Representative decides that it will reuse existing concrete elements, these items will be handled with care, cleaned as required and reset as per on-site conditions demand.
<u>1.11 ACCEPTABILITY OF MATERIALS</u>	.1	After award of Work, requests for "acceptance" of materials in addition to those presently established as "acceptable" by Contract Documents need be provided to the Departmental Representative.
	.2	Request must be supported with sufficient product information to enable an assessment to be made for approval.
<u>1.12 CONFORMANCE</u>	.1	When material or equipment is specified by standard or performance specifications, upon request of Departmental Representative, obtain from manufacturer an independant testing laboratory report, stating that material or equipment meets or exceeds specified requirements.
<u>PART 2 - PRODUCTS</u>		
<u>2.1 NOT USED</u>	.1	Not used.
<u>PART 3 - EXECUTION</u>		
<u>3.1 NOT USED</u>	.1	Not used.

END OF SECTION

PART 1 - GENERAL

1.1 PROJECT CLEANLINESS

- .1 Maintain Work in tidy condition, free from accumulation of waste products and debris, other than that caused by Owner or other Contractors.
- .2 Remove waste materials from site at daily regularly scheduled times or dispose of as directed by the Departmental Representative. Do not burn waste materials on site.
- .3 Make arrangements with and obtain permits from authorities having jurisdiction for disposal of waste and debris.
- .4 Solid waste materials that are generated within Halifax Regional Municipality (HRM) and do not require specialized out of county disposal sites must be disposed of within the boundaries of the HRM at a licensed or approved facility as per bylaw S-600.
- .5 Clean interior areas prior to start of finishing work, and maintain areas free of dust and other contaminants during finishing operations.
- .6 Store volatile waste in covered metal containers, and remove from premises at end of each working day.
- .7 Provide adequate ventilation during use of volatile or noxious substances. Use of building ventilation systems is not permitted for this purpose.
- .8 Use only cleaning materials recommended by manufacturer of surface to be cleaned, and as recommended by cleaning material manufacturer.
- .9 Schedule cleaning operations so that resulting dust, debris and other contaminants will not fall on wet, newly painted surfaces nor contaminate building systems.

1.2 FINAL CLEANING

- .1 When Work is Substantially Performed remove surplus products, tools, construction machinery and equipment not required for performance of remaining Work.

- 1.2 FINAL CLEANING
(Cont'd)
- .2 Remove waste products and debris other than that caused by others, and leave Work clean and suitable for occupancy.
 - .3 Inspect finishes, fitments and equipment and ensure specified workmanship and operation.
 - .4 Broom clean and wash exterior walks, steps and surfaces; rake clean other surfaces of grounds.
 - .5 Remove dirt and other disfiguration from exterior surfaces.
 - .6 Sweep and wash clean paved areas.

PART 2 - PRODUCTS

- 2.1 NOT USED .1 Not used.

PART 3 - EXECUTION

- 3.1 NOT USED .1 Not used.

END OF SECTION

PART 1 - GENERAL

1.1 RELATED SECTIONS

- .1 Section 01 11 00 General Instructions.
- .2 Section 03 20 00 Concrete Reinforcing.
- .3 Section 03 30 00.01 Cast-In-Place Concrete.
- .4 Section 03 40 00 Miscellaneous Concrete Work.
- .5 Section 03 50 00 Concrete Restoration and Epoxy Injection.

1.2 REFERENCE STANDARDS

- .1 Canadian Standards Association (CSA International)
 - .1 CSA A23.1/A23.2, Concrete Materials and Methods of Concrete Construction / Methods of Test and Standard Practices for Concrete.
 - .2 CSA O86, Engineering Design in Wood.
 - .3 CSA O121, Douglas Fir Plywood.
 - .4 CSA O151, Canadian Softwood Plywood.
 - .5 CSA O153, Poplar Plywood.
 - .6 CSA-O325, Construction Sheathing.
 - .7 CSA S269.1, Falsework and Formwork.
 - .8 CAN/CSA-S269.3, Concrete Formwork.
- .2 Underwriters' Laboratories of Canada (ULC)
 - .1 CAN/ULC-S701, Standard for Thermal Insulation, Polystyrene, Boards and Pipe Covering.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Formwork materials:

2.1 MATERIALS
(Cont'd)

- .1 (Cont'd)
 - .1 For concrete without special architectural features, use wood and wood product formwork materials to CSA O121, CSA O86, CSA O153.
 - .2 For concrete with special architectural features, use formwork materials to CSA A23.1/A23.2.
 - .3 Rigid insulation board:
 - .1 To CAN/ULC-S701.
- .2 Pan forms:
 - .1 As indicated.
- .3 Tubular column forms:
 - .1 Round, spirally wound laminated fibre forms, internally treated with release material.
- .4 Form ties:
 - .1 For concrete not designated 'Architectural', use removable or snap-off metal ties, fixed or adjustable length, free of devices leaving holes larger than 25 mm diameter in concrete surface.
 - .2 For Architectural concrete, use snap ties complete with plastic cones and light grey concrete plugs.
- .5 Form liner:
 - .1 Plywood:
 - .1 Medium density overlay or Douglas Fir to CSA O121 or Canadian Softwood Plywood to CSA O151 or Poplar to CSA O153, thickness to support all loads.
- .6 Form release agent:
 - .1 Chemically active release agents containing compounds that react with free lime in concrete resulting in water soluble soaps, non-toxic, biodegradable.

2.1 MATERIALS
(Cont'd)

- .7 Form stripping agent:
 - .1 Colourless mineral oil, non-toxic, biodegradable, free of kerosene, with viscosity between 70 and 110s Saybolt Universal at 40 degrees C, flashpoint minimum 150 degrees C, open cup.
- .8 Falsework materials:
 - .1 To CSA S269.1.
- .9 Sealant:
 - .1 For use intended and recommended by manufacturer.

PART 3 - EXECUTION

3.1 FABRICATION AND
ERECTION

- .1 Verify lines, levels and centres before proceeding with formwork/falsework and ensure dimensions agree with drawings.
- .2 Obtain the Departmental Representative's approval for use of earth forms framing openings not indicated on drawings.
- .3 Hand trim sides and bottoms and remove loose earth from earth forms before placing concrete.
- .4 Fabricate and erect falsework in accordance with CSA S269.1.
- .5 Refer to architectural drawings for concrete members requiring architectural exposed finishes.
- .6 Do not place shores and mud sills on frozen ground.
- .7 Provide site drainage to prevent washout of soil supporting mud sills and shores.
- .8 Fabricate and erect formwork in accordance with CAN/CSA S269.3 to produce finished concrete conforming to shape, dimensions, locations and levels indicated within tolerances required by CSA A23.1/A23.2.
- .9 Align form joints and make watertight.

3.1 FABRICATION AND
ERECTION
(Cont'd)

- .9 (Cont'd)
- .1 Keep form joints to minimum.
- .10 Locate horizontal form joints for exposed columns 2400 mm above finished floor elevation.
- .11 Use 25 mm chamfer strips on external corners and/or 25 mm fillets at interior corners, joints, unless specified otherwise.
- .12 Form chases, slots, openings, drips, recesses, expansion and control joints as indicated.
- .13 Construct forms for architectural concrete, and place ties as indicated and as directed.
- .1 Joint pattern not necessarily based on using standard size panels or maximum permissible spacing of ties.
- .14 Build in anchors, sleeves, and other inserts required to accommodate Work specified in other sections.
- .1 Ensure that anchors and inserts will not protrude beyond surfaces designated to receive applied finishes, including painting.
- .15 Clean formwork in accordance with CSA A23.1/A23.2, before placing concrete.

3.2 REMOVAL AND
RESHORING

- .1 Leave formwork in place for time periods specified by the Departmental Representative after placing concrete.
- .2 Provide necessary reshoring of members where early removal of forms may be required or where members may be subjected to additional loads during construction as required.
- .3 Re-use formwork and falsework subject to requirements of CSA A23.1/A23.2.

END OF SECTION

PART 1 - GENERAL

1.1 RELATED SECTIONS

- .1 Section 01 11 00 General Instructions.
- .2 Section 03 10 00 Concrete Forming and Accessories.
- .3 Section 03 30 00.01 Cast-In-Place Concrete.
- .4 Section 03 40 00 Miscellaneous Concrete Work.
- .5 Section 03 50 00 Concrete Restoration and Epoxy Injection.

1.2 REFERENCE STANDARDS

- .1 ASTM International
 - .1 ASTM A775/A775M, Standard Specification for Epoxy-Coated Reinforcing Steel Bars.
- .2 CSA International
 - .1 CSA A23.1/A23.2, Concrete Materials and Methods of Concrete Construction / Test Methods and Standard Practices for Concrete.
 - .2 CSA A23.3, Design of Concrete Structures.
 - .3 CSA G30.18, Carbon Steel Bars for Concrete Reinforcement.
 - .4 CSA G40.20/G40.21, General Requirements for Rolled or Welded Structural Quality Steel / Structural Quality Steel.
 - .5 CSA G164, Hot Dip Galvanizing of Irregularly Shaped Articles.
 - .6 CSA W186, Welding of Reinforcing Bars in Reinforced Concrete Construction.
- .3 Reinforcing Steel Institute of Canada (RSIC)
 - .1 RSIC-2018, Reinforcing Steel Manual of Standard Practice.

1.3 ACTION AND
INFORMATIONAL
SUBMITTALS

- .1 Shop drawings:
 - .1 Prepare reinforcement drawings in accordance with RSIC Manual of Standard Practice.
 - .2 Upon request by the Departmental Representative, submit drawings stamped and signed by professional engineer registered or licensed in the Province of Nova Scotia. Indicate placing of reinforcement and:
 - .1 bar bending details;
 - .2 lists;
 - .3 quantities of reinforcement;
 - .4 sizes, spacings, locations of reinforcement and mechanical splices if approved by Departmental Representative, with identifying code marks to permit correct placement without reference to structural drawings;
 - .5 indicate sizes, spacings and locations of chairs, spacers and hangers.
 - .3 Detail lap lengths and bar development lengths to CSA A23.3, unless otherwise indicated.
 - .1 Provide type C tension lap splices unless directed differently by Departmental Representative.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Substitute different size bars only if permitted in writing by Departmental Representative.
- .2 Reinforcing steel:
 - .1 Billet steel, grade 400, deformed bars to CSA G30.18, unless indicated otherwise.
 - .2 Weldable low alloy steel deformed bars to CSA G30.18.

2.1 MATERIALS
(Cont'd)

- .3 Welded steel wire fabric:
 - .1 To ASTM A185/A185M.
 - .1 Provide in flat sheets only.
- .4 Epoxy Coating of non-prestressed reinforcement:
 - .1 To ASTM A775/A775M.
- .5 Galvanizing of non-prestressed reinforcement:
 - .1 To CSA G164, minimum zinc coating 610 g/m².
- .6 Chairs, bolsters, bar supports, spacers:
 - .1 To CSA A23.1/A23.2.
- .7 Mechanical splices:
 - .1 Subject to approval of the Departmental Representative.
- .8 Plain round bars:
 - .1 To CSA G40.20/G40.21.

2.2 FABRICATION

- .1 Fabricate reinforcing steel in accordance with CSA A23.1/A23.2, SP-66 and Reinforcing Steel Manual of Standard Practice by the Reinforcing Steel Institute of Canada.
 - .1 SP-66 unless indicated otherwise.
- .2 Obtain Departmental Representative's written approval for locations of reinforcement splices other than those shown on placing drawings.
- .3 Upon approval of Departmental Representative , weld reinforcement in accordance with CSA W186.
- .4 Ship bundles of bar reinforcement, clearly identified in accordance with bar bending details and lists.

2.3 SOURCE QUALITY CONTROL

- .1 Upon request, provide Departmental Representative with certified copy of mill test report of reinforcing steel, showing physical and chemical analysis, prior to beginning reinforcing work.
- .2 Upon request inform Departmental Representative of proposed source of material to be supplied.

PART 3 - EXECUTION

3.1 FIELD BENDING

- .1 Do not field bend or field weld reinforcement except where indicated or authorized by Departmental Representative.
- .2 When field bending is authorized, bend without heat, applying slow and steady pressure.
- .3 Replace bars, which develop cracks or splits.

3.2 PLACING REINFORCEMENT

- .1 Place reinforcing steel as indicated on placing drawings and in accordance with CSA-A23.1/A23.2.
- .2 Use plain round bars as slip dowels in concrete.
 - .1 Paint portion of dowel intended to move within hardened concrete with one coat of asphalt paint.
 - .2 When paint is dry, apply thick even film of mineral lubricating grease.
- .3 Prior to placing concrete, obtain Departmental Representative's approval of reinforcing material and placement.
- .4 Ensure cover to reinforcement is maintained during concrete pour.
- .5 Ensure welded wire fabric is properly supported during concrete pour. Picking up mesh with rack, then walking on mesh is not acceptable. Mesh that ends up on bottom of slab will result in replacement of slab at no cost to the Crown.

- 3.3 FIELD TOUCH-UP .1 Touch up damaged and cut ends of epoxy coated or galvanized reinforcing steel with compatible finish to provide continuous coating.
- 3.4 CLEANING .1 Progress Cleaning:
- .1 Clean in accordance with Section 01 74 11 - Cleaning.
 - .2 Leave Work area clean at end of each day.

PART 1 - GENERAL

1.1 RELATED SECTIONS

- .1 Section 01 11 00 General Instructions.
- .2 Section 03 10 00 Concrete Forming and Accessories.
- .3 Section 03 20 00 Concrete Reinforcing.
- .4 Section 03 40 00 Miscellaneous Concrete Work.
- .5 Section 03 50 00 Concrete Restoration and Epoxy Injection.

1.2 REFERENCE STANDARDS

- .1 ASTM International
 - .1 ASTM D1751, Standard Specification for Preformed Expansion Joint Filler for Concrete Paving and Structural Construction (Non Extruding and Resilient Bituminous Types).
- .2 CSA International
 - .1 CSA A23.1/A23.2, Concrete Materials and Methods of Concrete Construction / Test Methods and Standard Practices for Concrete.
 - .2 CSA A3000, Cementitious Materials Compendium (Consists of A3001, A3002, A3003, A3004 and A3005).
 - .3 CAN/CSA G30.18, Billet-Steel Bars for Concrete Reinforcement.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Provide certification that mix proportions selected will produce concrete of quality, yield and strength as specified in concrete mixes, and will comply with CSA A23.1/A23.2.

1.4 QUALITY ASSURANCE

- .1 Provide certification that plant, equipment, and materials to be used in concrete comply with CSA A23.1/A23.2.

1.4 QUALITY ASSURANCE
(Cont'd)

.2 Upon request by Departmental Representative, minimum 2 weeks prior to starting concrete work, submit proposed quality control procedures for Departmental Representative's approval for the following items:

- .1 falsework erection;
- .2 hot weather concrete;
- .3 cold weather concrete;
- .4 curing;
- .5 finishes;
- .6 formwork removal; and
- .7 joints.

1.5 DELIVERY, STORAGE
AND HANDLING

.1 Delivery and Acceptance Requirements:

- .1 Concrete hauling time:
 - .1 Deliver to site of Work and discharged within 120 minutes maximum after batching.
 - .2 Do not modify maximum time limit without receipt of prior written agreement from Departmental Representative and concrete producer as described in CSA A23.1/A23.2.
 - .3 Deviations to be submitted for review by the Departmental Representative.

.2 Concrete delivery:

- .1 Ensure continuous concrete delivery from plant meets CSA A23.1/A23.2.

PART 2 - PRODUCTS

2.1 PERFORMANCE
CRITERIA

- .1 Quality Control Plan:
 - .1 Ensure concrete supplier meets performance criteria of concrete as established by Departmental Representative and provide verification of compliance as described in PART 1 - QUALITY ASSURANCE.

2.2 MATERIALS

- .1 Cement:
 - .1 To CSA A3001, type GU.
- .2 Supplementary cementing materials:
 - .1 To CSA A3001.
- .3 Water:
 - .1 To CSA A23.1/A23.2.
- .4 Aggregates:
 - .1 To CSA A23.1/A23.2, coarse aggregates to be normal density.
- .5 Air entraining admixtures:
 - .1 To CSA A3000.
- .6 Chemical admixtures:
 - .1 To CSA A3000. Departmental Representative to approve accelerating or set retarding admixtures during cold and hot weather placing.
- .7 Shrinkage compensating grout:
 - .1 Pre-mixed compound consisting of non-metallic aggregate, Portland cement, water reducing and plasticizing agents.
 - .1 Compressive strength:

2.2 MATERIALS
(Cont'd)

- .7 (Cont'd)
 - .1 (Cont'd)
 - .1 50 MPa at 28 days.
 - .2 Consistency:
 - .1 To CSA A23.1/A23.2.
 - .8 Non premixed dry pack grout:
 - .1 Composition of non metallic aggregate Portland cement with sufficient water for the mixture to retain its shape when made into a ball by hand and capable of developing compressive strength of 50 MPa at 28 days.
 - .9 Curing compound:
 - .1 To CSA A23.1/A23.2 type 1D with fugitive dye.
 - .10 Ribbed waterstops:
 - .1 Extruded PVC of sizes indicated.
 - .11 Reinforcing bars:
 - .1 To CSA G30.18, grade 400.
 - .12 Premoulded joint filler:
 - .1 Bituminous impregnated fibreboard:
 - .1 To ASTM D1751.
 - .13 Weep hole tubes:
 - .1 Plastic.
 - .14 Bonding adhesive:
 - .1 As recommended by manufacturer for use intended.
 - .15 Epoxy/ceramic injection system:
 - .1 Ready to use, high strength anchoring system.

- 2.2 MATERIALS .15 (Cont'd)
- (Cont'd) .2 Anchor size as directed by Departmental Representative.
- .16 Bonding agent:
- .1 Purpose made, acrylic bonding agent with polymers and special additives, specifically designed to bond old concrete to new. Bonding agent to be "ready to use".
- .1 Alternative epoxy and/or epoxy resin / Portland cement bonding agents may be used if approved in writing by the Departmental Representative.
- .17 Reinforcing steel primer:
- .1 Primer specifically designed to bond repair mortar to steel, and protect steel from corrosion.
- .18 Other concrete materials:
- .1 To CSA A23.1/A23.2.
- 2.3 MIXES .1 Performance method for specifying concrete to meet Departmental Representative performance criteria to CSA A23.1/A23.2.
- .1 Ensure concrete supplier meets performance criteria as established below and provide verification of compliance.
- .2 Provide concrete mix to meet following requirements:
- .1 Cement:
- .1 To CSA A3001, type GU.
- .2 Minimum compressive strength at 28 days as indicated on drawings. Unless otherwise directed by Departmental Representative use the following:
- .1 slabs (exterior and interior): 30 MPa;
- .2 footings: 25 MPa;

2.3 MIXES
(Cont'd)

.1 (Cont'd)

.2 (Cont'd)

.3 sidewalks: 32 MPa;

.4 walls and bases: 25 MPa unless shown otherwise; and

.5 curb and gutter: 32 MPa.

.3 Minimum cement content:

.1 300 kg/m³ of concrete (for 30 MPa); and

.2 415 kg/m³ of concrete (for 35 MPa).

.4 Class of exposure:

.1 C-2 for sidewalks, curbs and gutters.
Departmental Representative will provide class of exposure for other applications.

.5 Aggregate size:

.1 20 mm maximum.

.6 Slump:

.1 At time and point of discharge 80 mm ± 20 mm.

.7 Air content:

.1 5 to 7 %.

.8 Chemical admixtures:

.1 Following admixtures in accordance with CSA A3000, type, quantity, water reducing, strength increasing, set retarding, accelerating, air-entraining, super plasticizers.

PART 3 - EXECUTION

3.1 PREPARATION

- .1 Obtain Departmental Representative's approval before placing concrete. Provide Departmental Representative 24 hours notice before each concrete pour.
- .2 Pumping of concrete is permitted only after approval of equipment and mix.
- .3 Place concrete reinforcing in accordance with Section 03 20 00 - Concrete Reinforcing.
- .4 Prior to placing of concrete obtain Departmental Representative's approval of proposed method of protection of concrete during placing and curing.
- .5 During concreting operations:
 - .1 Development of cold joints not allowed.
 - .2 Ensure concrete delivery and handling facilitates placing with minimum of rehandling, and without damage to existing structure or Work.
- .6 Protect previous Work from staining.
- .7 Clean and remove stains prior to application of concrete finishes.
- .8 Maintain accurate records of poured concrete items, to indicate:
 - .1 date;
 - .2 location of pour;
 - .3 quality;
 - .4 air temperature; and
 - .5 test samples taken.
- .9 In locations where new concrete is dowelled to existing work, drill holes in existing concrete.

- 3.1 PREPARATION
(Cont'd)
- .9 (Cont'd)
- .1 Place steel dowels of deformed steel reinforcing bars and pack solidly with shrinkage compensating grout to anchor and hold dowels in positions as indicated.
- .10 Do not place load upon new concrete until authorized by Departmental Representative.
- 3.2 INSTALLATION/
APPLICATION
- .1 Do cast-in-place concrete work in accordance with CSA A23.1/A23.2.
- .2 Sleeves and inserts:
- .1 No sleeves, ducts, pipes or other openings will pass through joists, beams, column capitals or columns, except where indicated or approved by Departmental Representative.
- .2 Do not eliminate or displace reinforcement to accommodate hardware. If inserts cannot be located as specified, obtain approval of modifications from Departmental Representative before placing of concrete.
- .3 Check locations and sizes of sleeves and openings shown on drawings.
- .3 Anchor bolts:
- .1 Set anchor bolts to template under supervision of appropriate trade prior to placing concrete.
- .4 Drainage and weep holes:
- .1 Install weep hole tubes and drains as indicated.
- .5 Grout under base plates and machinery using procedures in accordance with manufacturer`s recommendations which result in 100% contact over grouted area.
- 3.3 FINISHES
- .1 Finish concrete in accordance with CSA A23.1/A23.2.

3.3 FINISHES
(Cont'd)

- .2 Use procedures acceptable to Departmental Representative or those noted in CSA A23.1/A23.2 to remove excess bleed water. Ensure surface is not damaged.
- .3 Use curing compounds compatible with applied finish on concrete surfaces. Provide written declaration that compounds used are compatible.
- .4 Interior floor slabs to be left exposed, to receive epoxy, carpet, sheet vinyl, or other covering requiring smooth surface:
 - .1 Initial finishing operations followed by final finishing comprising mechanical floating and steel trowelling as specified in CSA A23.1/A23.2 to produce hard, smooth, dense trowelled surface free from blemishes.
- .5 Floor slabs to receive mortar bed for ceramic or quarry tile:
 - .1 Screed to correct grade to provide broomed texture.
- .6 Equipment pads:
 - .1 Provide smooth trowelled surface.
- .7 Pavements, walks, curbs and exposed site concrete:
 - .1 Screed to plane surfaces and use aluminum, magnesium and wood floats.
 - .2 Provide round edges and joint spacings using standard tools.
 - .3 Trowel smooth to provide lightly brushed non-slip finish.
- .8 Waterstops:
 - .1 Install waterstops to provide continuous water seal.
 - .2 Do not distort or pierce waterstop in such a way as to hamper performance.
 - .3 Do not displace reinforcement when installing waterstops.
 - .4 Use equipment to manufacturer's requirements to field splice waterstops.

3.3 FINISHES
(Cont'd)

- .8 (Cont'd)
 - .5 Tie waterstops rigidly in place.
 - .6 Use only straight heat sealed butt joints in field.
 - .7 Use factory welded corners and intersections unless otherwise approved by Departmental Representative.
- .9 Joint fillers:
 - .1 Provide filler for each joint in single piece for depth and width required for joint, unless otherwise authorized by Departmental Representative.
 - .2 When more than one piece is required for a joint, fasten abutting ends and hold securely to shape by stapling or other positive fastening.
 - .3 Locate and form isolation, construction, expansion, and joints, as indicated.
 - .4 Install joint filler.
 - .5 Use 12 mm thick joint filler to separate slabs on grade from vertical surfaces and extend joint filler from bottom of slab to within 12 mm of finished slab surface unless indicated otherwise.
- .10 Damp proof membrane:
 - .1 Install damp proof membrane under concrete slabs on grade inside building.
 - .2 Lap damp proof membrane minimum 150 mm at joints and seals.
 - .3 Seal punctures in damp proof membrane before placing concrete.
 - .4 Use patching material at least 150 mm larger than puncture and seal.

- | | | |
|---|----|---|
| <u>3.4 CONTROL JOINTS</u> | .1 | Cut and form control joints in slabs on grade at locations indicated, to CSA A23.1/A23.2 and install specified joint sealer/filler. |
| <u>3.5 EXPANSION AND ISOLATION JOINTS</u> | .1 | Install premoulded joint filler in expansion and isolation joints full depth of slab flush with finished surface to CSA A23.1/A23.2. |
| <u>3.6 CURING</u> | .1 | Use curing compounds compatible with applied finish on concrete surfaces free of bonding agents and to CSA A23.1/A23.2. |
| <u>3.7 SITE TOLERANCES</u> | .1 | Concrete floor slab finishing tolerance to CSA A23.1/A23.2. |
| <u>3.8 FIELD QUALITY CONTROL</u> | .1 | Concrete inspection and testing:

.1 To CSA A23.1/A23.2 by testing laboratory designated and paid for by Departmental Representative.

.2 Inspection or testing by consultant will not augment or replace Contractor quality control nor relieve him of contractual responsibility. |
| <u>3.9 CLEANING</u> | .1 | Clean in accordance with Section 01 74 11 - Cleaning. |
| | .2 | Use trigger operated spray nozzles for water hoses. |
| | .3 | Designate cleaning area for tools to limit water use and runoff. |
| | .4 | Cleaning of concrete equipment to be done in accordance with Section 01 35 43 Environmental Procedures. |

END OF SECTION

PART 1 - GENERAL

1.1 RELATED SECTIONS

- .1 Section 01 11 00 General Instructions.
- .2 Section 03 10 00 Concrete Forming and Accessories.
- .3 Section 03 20 00 Concrete Reinforcing.
- .4 Section 03 30 00.01 Cast-In-Place Concrete.
- .5 Section 03 50 00 Concrete Restoration and Epoxy Injection.

1.2 REFERENCES

- .1 Canadian Standards Association (CSA International)
 - .1 CAN/CSA A371, Masonry Construction for Buildings.

1.3 DESCRIPTION OF WORK

- .1 This section pertains to miscellaneous items which are related or forms part of each concrete repair or replacement.
 - .1 Concrete or masonry lintels, sills, caps, etc., in conjunction to replacing or repairing concrete;
 - .2 saw cutting of concrete surfaces;
 - .3 dowelling, complete with epoxy grouting;
 - .4 lead, aluminum and copper flashings when replaced in conjunction to concrete repairs;
 - .5 replacement or new expansion and control joints in concrete walls, floors, and slabs;
 - .6 sandblasting/hydroblasting of concrete surfaces or embedded steel rebar;
 - .7 applying non slip protective coating after sandblasting; and
 - .8 replacement of small sets of concrete steps complete with hand railings.

1.4 WORK INCLUDED

- .1 Scope of work as follows:
- .1 removal of reinforced and plain concrete;
 - .2 removal of curb and gutter, asphalt and concrete;
 - .3 removal of grass turf, soil, asphalt debris, fill etc., to facilitate the placing of new concrete or asphalt:
 - .1 above removals includes disposal off DND property at an approved site;
 - .4 saw cutting asphalt and concrete;
 - .5 supply and installation of approved granular materials;
 - .6 supply and installation of approved sod;
 - .7 supply and installation of asphalt;
 - .8 supply and placing of reinforcing steel;
 - .9 supply and placing of concrete;
 - .10 supply and installation of anchors, sealants, asphalt fiberboard, inserts, dowels, chairs, ties, and miscellaneous concrete accessories;
 - .11 supply and installation of concrete and/or asphalt curbs and gutters;
 - .12 supply and installation of concrete admixtures, bonding agents, curing compounds, concrete sealers, concrete hardeners and coatings;
 - .13 supply and installation of materials and equipment required to place concrete in cold and/or hot weather;
 - .14 supply and installation of materials and equipment required to finish and protect concrete work; and
 - .15 supply and installation of pre-cast concrete elements such as curbs, stairs, etc.

1.5 DELIVERY, STORAGE
AND HANDLING

- .1 Deliver materials to job site in dry condition.
- .2 Keep materials dry until use except where wetting of elements is specified.
- .3 Store under waterproof cover on pallets or plank platforms held off ground by means of plank or timber skids.

PART 2 - PRODUCTS

2.1 FLASHING

- .1 Masonry flashing:
 - .1 Lead:
 - .1 0.2 mm thick sheet layer.
 - .2 Lap adhesive:
 - .1 As recommended by manufacturer of flashing material.

PART 3 - EXECUTION

3.1 METHOD OF WORK

- .1 The miscellaneous scope of work complete with materials to be utilized on each concrete job will be clearly identified on each requisition raised by the Departmental Representative.
- .2 In locations where new concrete is dowelled to existing work, drill holes in existing concrete.
 - .1 Place steel dowels of deformed steel reinforcing bars and pack solidly with epoxy to positively position and anchor dowels.
- .3 Build work plumb, level, and true to line, with vertical joints in alignment.
- .4 Clean and remove loose and spalling concrete.

3.1 METHOD OF WORK
(Cont'd)

- .5 Clean and prepare deteriorated concrete surface, reinforcing steel, using approved method.
- .6 Approved bonding agent must be used on existing concrete prior to new topping, unless otherwise directed by Departmental Representative.
- .7 Resurface concrete or masonry using products as specified on the requisition.
- .8 The protection of surrounding surfaces and workmanship will be of the same quality as laid down in Section 01 11 00 General Instructions.

3.2 REMOVALS

- .1 Remove concrete as directed by Departmental Representative. Neatly saw cut area to limits as directed by Departmental Representative. Protect adjacent surfaces from damage.
- .2 Remove existing equipment, services, and obstacles where required for refinishing or making good of existing surfaces, and replace as work progresses.
- .3 Dispose of demolished materials in accordance with provincial environmental regulations.
- .4 At end of each day's work, leave work in a safe condition so that no part is in fear of toppling or falling.
- .5 Demolition must be carried out in a manner which minimizes dust. Keep dusty materials wetted.
- .6 Demolish concrete sections into small sections. Protect personnel and property from damage.
- .7 Remove contaminated or dangerous materials from site and dispose of in accordance with provincial health and safety and environmental regulations.

3.3 FLASHING

- .1 Install flashing in masonry/concrete in accordance with CAN/CSA A371.
- .2 Lap joints 150 mm and seal with adhesive.

3.3 FLASHING .3 Replace flashing on chimneys.
(Cont'd)

3.4 INSERTS .1 As specified and/or directed by Departmental Representative. All materials to be purpose made and able to be cast or grouted into concrete. Ensure metals do not set up a reaction. Ensure wood is protected from concrete.

END OF SECTION

PART 1 - GENERAL

1.1 RELATED SECTIONS

- .1 Section 01 11 00 General Instructions.
- .2 Section 03 10 00 Concrete Forming and Accessories.
- .3 Section 03 20 00 Concrete Reinforcing.
- .4 Section 03 30 00.01 Cast-In-Place Concrete.
- .5 Section 03 40 00 Miscellaneous Concrete Work.

1.2 REFERENCES

- .1 ASTM International
 - .1 ASTM C109/C109M, Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2 in. or 50 mm Cube Specimens).
 - .2 ASTM C827/C827M, Standard Test Method for Change in Height at Early Ages of Cylindrical Specimens of Cementitious Mixtures.
 - .3 ASTM C881/C881M, Standard Specification for Epoxy-Resin-Base Bonding Systems for Concrete.
 - .4 ASTM C939/C939M, Standard Test Method for Flow of Grout for Preplaced-Aggregate Concrete (Flow Cone Method).
- .2 American Concrete Institute (ACI)
 - .1 ACI 117M, Specification for Tolerances for Concrete Construction and Materials.
- .3 Canadian Standards Association (CSA International)
 - .1 CSA A23.1/A23.2, Concrete Materials and Methods of Concrete Construction / Test Methods and Standard Practices for Concrete.
 - .2 CSA A3000, Cementitious Materials Compendium (Consists of A3001, A3002, A3003, A3004 and A3005).

1.3 WORK INCLUDED

- .1 Scope of work as follows:
- .1 erection of scaffolding, mobilization, set-up to access work area;
 - .2 supply and use of safety equipment;
 - .3 cleaning and surface preparation;
 - .4 routing, chipping, waterblasting, "Blastracing", grinding, etc., to remove deteriorated concrete;
 - .5 cleaning and preparation of reinforcing steel;
 - .6 injection of epoxy resins;
 - .7 application of primers and bonding agents;
 - .8 application of concrete repair mortars and patching compounds;
 - .9 application of concrete sealers and corrosion inhibitors;
 - .10 construction of form work to facilitate repair;
 - .11 removals of concrete, rebar, and masonry units;
 - .12 removals of temporary structures, staging, formwork, etc.; and
 - .13 clean up.

1.4 WORK EXCLUDED

- .1 If additional masonry work is required to resurface areas of injection, this work will be covered under miscellaneous material and labour.

1.5 GENERAL REQUIREMENTS

- .1 The Contractor must utilize only skilled tradesmen for concrete surface preparation, injection, crack repairs, and surface repairs.

1.5 GENERAL
REQUIREMENTS
(Cont'd)

- .1 (Cont'd)
 - .1 All Work involving surface preparation, injection, crack and surface repairs must be done by tradesmen with experience in the use of epoxy or resin injection crack repairs and restoration of concrete.
- .2 All repair/restoration Work is based on a "system approach" to concrete repair.
 - .1 Work includes all preparation work, cleaning, forming, rebar cleaning, rebar replacement/repair, reinforcing steel protection, bonding, mortar repair process, crack repair, patching, curing, sealing, application of corrosion protection coating, etc., as to be effectively restore/repair areas indicated.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 This specification is written based on a one manufacturer's system. All products used on each repair project must be from one manufacturer.
- .2 Alternatives: The following are some manufacturers whose products may be submitted as alternatives. It is the responsibility of the Contractor to determine the comparable product for each intended use.
 - .1 Cappar Ltd;
 - .2 Fosroc;
 - .3 Master Builders Technologies.
- .3 Contractor must select best product for particular repair and to approval of Departmental Representative.
- .4 All products must be compatible with each other. The repair of the concrete are to incorporate a "system's approach" and to be in accordance with industry practices for concrete restoration. It is essential that the one manufacturer's system be used to ensure that there is a clear, defined warranty.

2.2 CONCRETE
RESTORATION PRODUCTS

- .1 All products and materials specified in this Section must be stored, prepared, mixed, applied, finished, and cured in strict accordance with the manufacturer's written instructions.
- .2 All products and materials specified in this Section must be used in conformance with the manufacturer's intended use. All product limitations as described in the technical literature must be adhered to. Inform Departmental Representative, in writing, prior to use if product does not meet manufacturer's intended use.
- .3 Do not use any product for which its shelf life has been exceeded or has not been stored at the recommended temperature.
- .4 Contractor will be responsible for providing all required restoration products including bonders, adhesives and primers.

2.3 REINFORCING STEEL
PRIMER

- .1 Use a water based epoxy resin/cement bonding agent and anti-corrosion coating.

2.4 REINFORCING STEEL
PRIMER & BONDING AGE
(BELOW WATER LINE)

- .1 Primer and bonding agent materials as recommended by concrete restoration product manufacturer. Primer to be compatible with repair mortar and suitable for use underwater in a marine environment. Submit product data to Departmental Representative for approval prior to use.

2.5 CONCRETE BONDING
AGENT

- .1 Water based epoxy resin/Portland cement bonding agent with corrosion protection properties specifically designed for use with restoration products specified in this Section. Note: If another type of bonding agent or method of bonding new repair work to existing is recommended by restoration product manufacturer, notify in writing the Departmental Representative prior to work for approval of alternative bonding materials.

2.6 PRESSURE INJECTION
(BELOW WATER LINE)

- .1 Sealing of crack prior to injection is to be carried out utilizing a solvent free, moisture insensitive, high modulus, high strength epoxy paste adhesive to meet ASTM C881 Type I, II, IV and V, grade 3, class B & C.
- .2 Underwater injection resin to conform to ASTM C881.

<u>2.7 EPOXY INJECTION (ABOVE WATER LINE)</u>	.1	Low viscosity, solvent free, two components, moisture insensitive, epoxy resin system, specifically formulated for epoxy injection.
<u>2.8 REPAIR MORTAR</u>	.1	Polymer modified cementitious, non-sag, shrinkage-compensated, repair compound specifically designed for deep repairs on vertical surfaces.
<u>2.9 PATCHING / REPAIR MATERIALS (BELOW WAT LINE)</u>	.1	Patching: .1 Two component, solvent free, 100% solids, moisture insensitive epoxy resin system, specifically designed for patching both vertical and overhead surfaces, underwater.
	.2	Formed areas: .1 Three component epoxy resin grouting system specifically designed for filling annular space without dewatering.
<u>2.10 PROTECTIVE CONCRETE COATING/SEALER</u>	.1	Penetrating, migrating, corrosion inhibiting coating for hardened concrete.
<u>2.11 PREPARATION MATERIALS</u>	.1	Contractor must use the primers and bonders recommended by the manufacturer for use intended of the restoration project.
<u>2.12 TOOLS AND EQUIPMENT</u>	.1	Contractor is responsible for providing all necessary tools and equipment required to perform proper restoration work, both underwater and above water.
<u>PART 3 - EXECUTION</u>		
<u>3.1 GENERAL</u>	.1	Concrete work to be done in accordance with CSA A23.1/23.2 and in strict accordance with the manufacturer's printed instructions. The Contractor will be responsible to choose and use the best restoration product specified for each particular repair item.

3.2 PREPARATION

- .1 Thoroughly clean and prepare all concrete surfaces prior to application of repair products. Remove all deteriorated and loose concrete using method approved by Departmental Representative. Test method of cleaning on sample area prior to work if requested by Departmental Representative.
- .2 Remove all marine organisms, rust scales on rebar, oil, grease, debris, and any other deleterious substances to ensure proper bonding of repair repair concrete to existing concrete surfaces.
- .3 Cleanliness of concrete surfaces is subject to Departmental Representative's approval. Area of work will be inspected prior to application of repair materials. Work will not proceed unless Departmental Representative accepts condition of existing surfaces. Concrete surfaces will be re-cleaned properly by Contractor, at no extra cost to DND, if surfaces are not acceptable to Departmental Representative or if there is delay between initial cleaning and placement of concrete.
- .4 Ensure existing concrete surfaces are sound and rough to provide proper bonding of new concrete.
- .5 Ensure edges are straight and vertical to eliminate feathered edges.
- .6 Layout repair area to reduce length of boundary edge.

3.3 WORKMANSHIP

- .1 All restoration products and materials are to be applied or installed in strict accordance with manufacturer's instructions. Contractor will be responsible to ensure manufacturer's technical representative visits site during work and must submit in writing to Departmental Representative a declaration stating products are being prepared and applied in accordance with manufacturer's recommendations.

3.4 METHOD OF WORK -
INJECTION

- .1 Remove all loose, flaking or deteriorated paint from concrete surfaces where work is to be carried out.
- .2 Clean surfaces free of dirt, dust, grease, rust or other foreign matter.

3.4 METHOD OF WORK -
INJECTION
(Cont'd)

- .3 All previously applied crack filler, patching compounds, grouts or stucco must be removed until a sound substrate is reached on all faces of the crack.
- .4 The crack will be thoroughly cleaned with steel brushes to remove all dust and loose particles, routing of all cracks may be required.
- .5 The degree of surface preparation will be such as to guarantee adhesion of the finished work.
- .6 The injection ports will then be set and the void created filled with concrete bonding paste. Surrounding surfaces or voids also receive bonder.
- .7 The crack must be injected via the injection ports with injection resin. This injection must be carried out with a positive pressure of 138 kPa maximum above any hydrostatic heads utilizing automatic dispensing and metering equipment with a two component mixing stat at the injection head. This machine must have a mixing tolerance of plus 2%.
- .8 When the injection resin has hardened, all ports and projecting epoxy bonder must be ground or chipped off. The repaired area then must be given a smooth even coat of epoxy bonder so as to ensure a level true surface.
- .9 If the surrounding concrete surfaces must be repaired to present aesthetics or resurface stucco then these extra masonry repairs will be carried out and paid under the miscellaneous charges.

3.5 FIELD QUALITY
CONTROL

- .1 Inspection and testing of concrete and concrete materials will be carried out by a testing laboratory designated by Departmental Representative in accordance with CSA A23.1/A23.2.
- .2 Non-destructive methods for testing concrete must be in accordance with CSA A23.1/A23.2.
- .3 Inspection or testing by consultant will not augment or replace Contractor quality control nor relieve him of his contractual responsibility.

3.6 COLD WEATHER
REQUIREMENTS

- .1 If work is to be carried out during the winter months, the Contractor must provide temporary enclosures and coverings with supplemental heating deemed suitable by the Departmental Representative for complete protection of the work.

3.7 PROTECTION
REQUIREMENTS FOR
INTERIOR WORK

- .1 When interior work is encountered, the Contractor must install plastic coverings to eliminate dust/dirt to the surrounding areas and vacuum the entire areas as a result of this work.



Contract Number / Numéro du contrat W010C-20-0194
Security Classification / Classification de sécurité UNCLASSIFIED

**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		National Defence	2. Branch or Directorate / Direction générale ou Direction Marlant - FCE	
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 Work under this SO comprises the furnishing of all labour, materials, tools, equipment, transportation and supervision required to perform miscellaneous concrete work, concrete restoration and epoxy injection work to concrete and masonry surfaces, for exterior & interior of buildings, grounds and works of CFB Halifax as per attached specification dated 2019-06-03.				
5. a) Will the supplier require access to Controlled Goods? Le fournisseur aura-t-il accès à des marchandises contrôlées?		<input checked="" type="checkbox"/> No Non	<input type="checkbox"/> Yes Oui	
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?		<input checked="" type="checkbox"/> No Non	<input type="checkbox"/> Yes Oui	
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)		<input checked="" type="checkbox"/> No Non	<input type="checkbox"/> Yes Oui	
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.		<input type="checkbox"/> No Non	<input checked="" type="checkbox"/> Yes Oui	
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?		<input checked="" type="checkbox"/> No Non	<input type="checkbox"/> Yes Oui	
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 <input type="checkbox"/>	NATO / OTAN <input type="checkbox"/>	Foreign / Étranger <input type="checkbox"/>		
7. b) Release restrictions / Restrictions relatives à la diffusion				
No release restrictions Aucune restriction relative à la diffusion <input type="checkbox"/>	All NATO countries Tous les pays de l'OTAN <input type="checkbox"/>	No release restrictions Aucune restriction relative à la diffusion <input type="checkbox"/>		
Not releasable À ne pas diffuser <input type="checkbox"/>				
Restricted to: / Limité à : Specify country(ies): / Préciser le(s) pays : <input type="checkbox"/>	Restricted to: / Limité à : Specify country(ies): / Préciser le(s) pays : <input type="checkbox"/>	Restricted to: / Limité à : Specify country(ies): / Préciser le(s) pays : <input type="checkbox"/>		
7. c) Level of information / Niveau d'information				
PROTECTED A PROTÉGÉ A <input type="checkbox"/>	NATO UNCLASSIFIED NATO NON CLASSIFIÉ <input type="checkbox"/>	PROTECTED A PROTÉGÉ A <input type="checkbox"/>		
PROTECTED B PROTÉGÉ B <input type="checkbox"/>	NATO RESTRICTED NATO DIFFUSION RESTREINTE <input type="checkbox"/>	PROTECTED B PROTÉGÉ B <input type="checkbox"/>		
PROTECTED C PROTÉGÉ C <input type="checkbox"/>	NATO CONFIDENTIAL NATO CONFIDENTIEL <input type="checkbox"/>	PROTECTED C PROTÉGÉ C <input type="checkbox"/>		
CONFIDENTIAL CONFIDENTIEL <input type="checkbox"/>	NATO SECRET NATO SECRET <input type="checkbox"/>	CONFIDENTIAL CONFIDENTIEL <input type="checkbox"/>		
SECRET SECRET <input type="checkbox"/>	COSMIC TOP SECRET COSMIC TRÈS SECRET <input type="checkbox"/>	SECRET SECRET <input type="checkbox"/>		
TOP SECRET TRÈS SECRET <input type="checkbox"/>		TOP SECRET TRÈS SECRET <input type="checkbox"/>		
TOP SECRET (SIGINT) TRÈS SECRET (SIGINT) <input type="checkbox"/>		TOP SECRET (SIGINT) TRÈS SECRET (SIGINT) <input type="checkbox"/>		



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 / Non Yes / 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 / Non Yes / 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

- | | | | |
|---|---|---|--|
| <input checked="" type="checkbox"/> RELIABILITY STATUS
COTE DE FIABILITÉ | <input type="checkbox"/> CONFIDENTIAL
CONFIDENTIEL | <input type="checkbox"/> SECRET
SECRET | <input type="checkbox"/> TOP SECRET
TRÈS SECRET |
| <input type="checkbox"/> TOP SECRET - SIGINT
TRÈS SECRET - SIGINT | <input type="checkbox"/> NATO CONFIDENTIAL
NATO CONFIDENTIEL | <input type="checkbox"/> NATO SECRET
NATO SECRET | <input type="checkbox"/> COSMIC TOP SECRET
COSMIC TRÈS SECRET |
| <input type="checkbox"/> SITE ACCESS
ACCÈS AUX EMPLACEMENTS | | | |

Special comments:
Commentaires spéciaux :

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 / Non Yes / Oui
If Yes, will unscreened personnel be escorted?
Dans l'affirmative, le personnel en question sera-t-il escorté? No / Non Yes / 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 / Non Yes / 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 / Non Yes / 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 / Non Yes / Oui

INFORMATION TECHNOLOGY (IT) MEDIA / SUPPORT RELATIF A 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 / Non Yes / 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 / Non Yes / 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 / CONFIDENTIEL	SECRET	TOP SECRET / TRÈS SECRET		
											A	B	C					
Information / Assets / Renseignements / Biens / Production	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IT Media / Support TI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IT Link / Lien électronique	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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).