



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Bid Receiving - PWGSC / Réception des
soumissions - TPSGC

11 Laurier St. / 11, rue Laurier

Place du Portage, Phase III

Core 0B2 / Noyau 0B2

Gatineau, Québec K1A 0S5

Bid Fax: (819) 997-9776

REQUEST FOR PROPOSAL DEMANDE DE PROPOSITION

**Proposal To: Public Works and Government
Services Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Proposition aux: Travaux Publics et Services
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

Vendor/Firm Name and Address

Raison sociale et adresse du

fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Defence Communications Division. (QD)

11 Laurier St./11, rue Laurier

Place du Portage, Phase III, 8C2

Gatineau, Québec K1A 0S5

Title - Sujet TIC3 Air Tactical Data Link (TDL) G TIC3 Air Tactical Data Link (TDL) Ground Entry Point (GEP) Shelters	
Solicitation No. - N° de l'invitation W8475-235521/A	Date 2023-06-27
Client Reference No. - N° de référence du client W8475-235521	
GETS Reference No. - N° de référence de SEAG PW-\$\$QD-028-29105	
File No. - N° de dossier 028qd.W8475-235521	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Eastern Daylight Saving Time EDT on - le 2023-08-11 Heure Avancée de l'Est HAE	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Garate, Oscar	Buyer Id - Id de l'acheteur 028qd
Telephone No. - N° de téléphone (873) 355-3354 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Specified Herein Précisé dans les présentes	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée See Herein – Voir ci-inclus	Delivery Offered - Livraison proposée
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

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PART 1 - GENERAL INFORMATION

1.1 Security Requirements

THIS DOCUMENT CONTAINS A SECURITY REQUIREMENT

Before award of a contract, the following conditions must be met:

the Bidder must hold a valid organization security clearance as indicated in Part 6 - Resulting Contract Clauses;

For additional information on security requirements, Bidders should refer to the Contract Security Program of Public Works and Government Services Canada (<http://www.tpsgc-pwgsc.gc.ca/esc-src/introduction-eng.html>) website.

1.2 Requirement

The Canadian Armed Forces (CAF) has a requirement to update its Tactical Data Link (TDL) infrastructure and install Ground Entry Points (GEP) at various strategic locations across Canada, thus creating a need for a shelter to house electronic communication systems and be able to withstand the harsh climatic conditions of Canada's northern environment.

TIC3 Air determined that a MSVS V6 Shelter or equivalent is the right fit for service for the CAF's modernization of its TDL capabilities.

1.3 Debriefings

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

1.4 Canada Post Corporation's (CPC) Connect Service

This bid solicitation allows bidders to use the CPC Connect service provided by Canada Post Corporation to transmit their bid electronically.

PART 2 - BIDDER INSTRUCTIONS

2.1 Summary

- 2.1.1 This solicitation is being issued to satisfy the requirement of the Department of National Defence for the acquisition, delivery, and support of the Tactical Data Link (TDL) Ground Entry Point (GEP) Shelters. The Shelters are an integral solution that will be implemented and integrated as part of the Tactical Integrated Command Control Communications (TIC3) Air Projects, and in accordance with Annex A, Statement of Work and Annex B, Basis of Payment.
- 2.1.2 The requirement is subject to the provisions of the Canadian Free Trade Agreement (CFTA).

2.2 Standard Instructions, Clauses and Conditions

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2022-03-29) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of 2003 Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days

Insert: 13 months

2.3 Submission of Bids

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

Public Works and Government Services Canada

Bid Receiving Unit (BRU)

11 Laurier St.

Place du Portage

Phase III, Core 0B2

Gatineau, Quebec, K1A 0S5

Canada

Note: For bidders choosing to submit using Canada Post Corporation's (CPC) Connect service for bids closing at the Bid Receiving Unit in the National Capital Region (NCR) the email address is:

tpsgc.pareceptiondessomissions-apbidreceiving.pwgsc@tpsgc-pwgsc.gc.ca

Note: **Bids will not be accepted if emailed directly to this email address.** This email address is to be used to open a CPC Connect conversation, as detailed in Standard Instructions 2003, or to send bids through a CPC Connect message if the bidder is using its own licensing agreement for CPC Connect service.

2.4 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 15 calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders 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 the Bidder do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to

all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

2.5 Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario, Canada.

2.6 Bid Challenge and Recourse Mechanisms

(a) Several mechanisms are available to potential suppliers to challenge aspects of the procurement process up to and including contract award.

(b) Canada encourages suppliers to first bring their concerns to the attention of the Contracting Authority. Canada's Buy and Sell website, under the heading "Bid Challenge and Recourse Mechanisms" contains information on potential complaint bodies such as:

- Office of the Procurement Ombudsman (OPO)
- Canadian International Trade Tribunal (CITT)

(c) Suppliers should note that there are **strict deadlines** for filing complaints, and the time periods vary depending on the complaint body in question. Suppliers should therefore act quickly when they want to challenge any aspect of the procurement process.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

- If the Bidder chooses to submit its bid electronically, Canada requests that the Bidder submits its bid in accordance with section 08 of the 2003 standard instructions. The CPC Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation.

Canada requests that the Bidder submits its bid in separately bound sections as follows:

Section I: Technical Bid
Section II: Financial Bid
Section III: Certifications
Section IV: Additional Information

- If the Bidder chooses to submit its bid in hard copies, Canada requests that the Bidder submits its bid in separately bound sections as follows:
Section I: Technical Bid (01 hard copy) and 01 soft copy on a USB key
Section II: Financial Bid (01 hard copy) and 01 soft copy on a USB key
Section III: Certifications (01 hard copy) and 01 soft copy on a USB key

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

- If the Bidder is simultaneously providing copies of its bid 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 CPC Connect service, the wording of the electronic copy provided through CPC Connect service will have priority over the wording of the other copies.

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

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

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>). To assist Canada in reaching its objectives, bidders should:

- 1) Include all environmental certification(s) relevant to your organization (e.g., ISO 14001, Leadership in Energy and Environmental Design (LEED), Carbon Disclosure Project, etc.)
- 2) Include all environmental certification(s) or Environmental Product Declaration(s) (EPD) specific to your product/service (e.g., Forest Stewardship Council (FSC), ENERGYSTAR, etc.)
- 3) Unless otherwise noted, bidders are encouraged to submit bids electronically. If hard copies are required, bidders should:
 - a. 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
 - b. 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 Bid

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

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment identified in Annex B of this document.

Bidders should include the following information in their financial bid:

- 1. Their legal name;
- 2. The name of the contact person (including this person's mailing address, phone and email address) authorized by the Bidder to enter into communications with Canada with regards to: their bid; and any contract that may result from their bid.

3.1.1 Electronic Payment of Invoices – Bid

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex G Electronic Payment Instructions to identify which one is accepted.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

3.1.2 Exchange Rate Fluctuation

C3011T (2013-11-06), Exchange Rate Fluctuation: The requirement does not offer exchange rate fluctuation risk mitigation. Requests for exchange rate fluctuation risk mitigation will not be considered. All bids including such provision will render the bid non-responsive.

3.1.3 SACC Manual Clauses

A9130T (2019-11-28), Controlled Goods Program – Bid

B1000T (2014-06-26), Condition of Material – Bid

B4051T (2014-06-26), Provisioning Parts Breakdown – Bid

Section III: Certifications

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

Section IV: Additional Information

Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

4. EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- a. Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria. For the purpose of this Solicitation, Canada will utilize a two-phased evaluation process as more fully described herein.
- b. An evaluation team composed of representatives of Canada will evaluate the bids.

4.1.1 Phased Bid Compliance Process

Canada is conducting the PBCP described below for this requirement. (b) Notwithstanding any review by Canada at Phase I or II of the PBCP, Bidders are and will remain solely responsible for the accuracy, consistency and completeness of their Bids and Canada does not undertake, by reason of this review, any obligations or responsibility for identifying any or all errors or omissions in Bids or in responses by a Bidder to any communication from Canada. THE BIDDER ACKNOWLEDGES THAT THE REVIEWS IN PHASE I AND II OF THIS PBCP ARE PRELIMINARY AND DO NOT PRECLUDE A FINDING IN PHASE III THAT THE BID IS NON-RESPONSIVE, EVEN FOR MANDATORY REQUIREMENTS WHICH WERE SUBJECT TO REVIEW IN PHASE I OR II AND NOTWITHSTANDING THAT THE BID HAD BEEN FOUND RESPONSIVE IN SUCH EARLIER PHASE. CANADA MAY DEEM A BID TO BE NON-RESPONSIVE TO A MANDATORY REQUIREMENT AT ANY PHASE. THE BIDDER ALSO ACKNOWLEDGES THAT ITS RESPONSE TO A NOTICE OR A COMPLIANCE ASSESSMENT REPORT (CAR) (EACH DEFINED BELOW) IN PHASE I OR II MAY NOT BE SUCCESSFUL IN RENDERING ITS BID RESPONSIVE TO THE MANDATORY REQUIREMENTS THAT ARE THE SUBJECT OF THE NOTICE OR CAR, AND MAY RENDER ITS BID NONRESPONSIVE TO OTHER MANDATORY REQUIREMENTS. (e) The PBCP does not limit Canada's rights under Standard Acquisition Clauses and Conditions (SACC) 2003 (2022-03-29) Standard Instructions – Goods or Services – Competitive Requirements nor Canada's right to request or accept any information during the solicitation period or after bid solicitation closing in circumstances where the bid solicitation expressly provides for this right. (f) Canada will send any

Notice or CAR by any method Canada chooses, in its absolute discretion. The Bidder must submit its response by the method stipulated in the Notice or CAR. Responses are deemed to be received by Canada at the date and time they are delivered to Canada by the method and at the address specified in the Notice or CAR. An email response permitted by the Notice or CAR is deemed received by Canada on the date and time it is received in Canada's email inbox at Canada's email address specified in the Notice or CAR. A Notice or CAR sent by Canada to the Bidder at any address provided by the Bidder in or pursuant to the Bid is deemed received by the Bidder on the date it is sent by Canada. Canada is not responsible for late receipt by Canada of a response, however caused.

4.1.2 Technical Evaluation

Each proposal will be evaluated from a technical point of view to verify whether and how the mandatory requirements are satisfied and to score the rated requirements through Annex C – Evaluation and Compliance Matrix. If and when required or requested, each proposal may have to provide further evidence of compliance with selected mandatory and/or rated requirements.

To demonstrate that their products meet all selected technical specifications mentioned above, Bidders must submit with their bid *proof of compliance*. A proof of compliance is defined as a document, such technical literature and/or a third party test report provided by a nationally and/or internationally recognized testing facility and/or a report generated by a government agency or organization. The document must provide detailed information on each performance mandatory technical evaluation criteria. Canada will evaluate only the documentation provided with a Bidder's bid. Canada will not evaluate information such as references to Web site addresses where additional information can be found, or technical manuals or brochures not submitted with the bid.

The Bidder must clearly demonstrate how the proposed TDL GEP Shelter complies with each mandatory technical evaluation criteria listed in the Annex C "Evaluation and Compliance Matrix".

Where it is necessary to refer to other documentation that is included in the proposal, Bidders must include the precise location of the reference material including the title of the document, and the page and paragraph numbers. It is the Bidder's responsibility to provide enough details to permit a complete evaluation. Any proposal that does not clearly demonstrate compliance with each of the mandatory technical evaluation criteria listed in Annex C – Evaluation and Compliance Matrix will be considered non-responsive.

Rated Technical Score Calculation. The Technical Points for each proposal will be obtained from the evaluation in accordance with Annex C – Evaluation and Compliance Matrix.

- a. The maximum potential technical points total is 100. Based on the percentage of technical points achieved on a bid, the maximum technical evaluation score is 60.
- b. The example below depicts how the Technical Points are calculated.

	Total Score	Technical Points Calculation	Technical Points
Bidder 1	60	$60 * 60 / 100$	36

Bidder 2	20	$60 * 20 / 100$	12
Bidder 3	70	$60 * 70 / 100$	42

4.2.2. Financial Evaluation

A Bidder's financial proposal will be evaluated based on Annex B – Basis of Payment. The table will use the shown calculations to determine a Bidder's Final Financial Bid, which will then be compared against the lowest received Final Financial Bid to award a Pricing Score (see Section 4.3).

The Financial proposal will be evaluated in Canadian dollars, Transportation/ Shipping charges: Included, Canadian Customs/Duties: Included, Quebec Sales Tax (QST), or Ontario Sales Tax (HST), excluded.

Pricing submitted in a foreign currency will be converted to Canadian dollars based on the exchange rate provided by the Bank of Canada, at noon on the date of Bid closing. Unless otherwise stated by the Bidder, it will be assumed that the bid is being submitted in Canadian currency.

4.3. Basis of Selection

- a. To be declared responsive, a proposal must:
 1. Comply with all the requirements of the bid solicitation;
 2. Meet all mandatory criteria; and
 3. Successful demonstration of all specified mandatory and rated technical requirements outlined in the Annex A.
 - (i) If the demonstration is not successful due to failure to satisfy 1 or more mandatory requirements the proposal shall be considered non-compliant and will not be given further consideration.
 - (ii) If the demonstration is not successful due to failure to satisfy 1 or more rated requirements the proposal will be re-scored accordingly and;
 - (a) Will be recommended for contract award if it is still the 1st ranked compliant proposal. If not,
 - (b) The next highest scored compliant proposal will be invited for demonstration.
- b. Bids not meeting 4.3.a.1 or 4.3.a.2 will be declared non-responsive.
- c. The selection will be based on the highest responsive combined rating of Technical Merit Score and Pricing Score. The ratio will be 60% for technical merit and 40% for price.
- d. To establish the Technical Merit Score, the overall technical score for each responsive bid will be determined as follows: total number of technical points obtained divided by 100 (maximum number of Technical Points) and then multiplied by 60.
- e. To establish the Pricing Score, each responsive bid will be prorated against the lowest evaluated Final Financial Bid and the ratio of 40%.
- f. For each responsive bid, the Technical Merit Score and the Pricing Score will be added to determine its Combined Rating.
- g. The responsive bid with the highest combined rating of Technical Merit Score and Pricing Score will be recommended for contract award.

The table below illustrates an example where all three bids are responsive and the selection of the Bidder is determined by a 60/40 ratio of technical merit and price, respectively. The total available points equals 100 and the lowest evaluated Final Financial Bid is \$5,250,000.

Basis of Selection - Highest Combined Rating Technical Merit (60%) and Price (40%)

		Bidder 1	Bidder 2	Bidder 3
	Overall Technical Score	60	20	70
	Final Financial Bid	7,850,000	9,500,000	5,250,000
Calculations	Technical Merit Score	$60 * 60/100 = 36$	$20 * 60/100 = 12$	$70 * 60/100 = 42$
	Pricing Score	$5250000/7850000 * 40 = 26.75$	$5250000/9500000 * 40 = 22.11$	$5250000/5250000 * 40 = 40$
	Combined Rating	62.75	34.11	82
	Ranking	2	3	1

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **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.

5.1.2 Security Requirements – Required Documentation

Bidders are reminded to obtain the required security clearance and, as applicable, security capabilities promptly. As indicated above, bidders who do not provide all the required information at bid closing will be given the opportunity to complete any missing information from the AFR form within a period set by the Contracting Authority. If that information is not provided within the timeframe established by the Contracting Authority (including any extension granted by the Contracting Authority in its discretion), or if Canada requires further information from the bidder in connection with assessing the request for security clearance (i.e., information not required by the AFR form), the Bidder will be required to submit that information within the time period established by the Contracting Authority, which will not be less than 48 hours. If, at any time, the Bidder fails to provide the required information within the timeframe established by the Contracting Authority, its bid will be declared non-compliant.

5.1.3 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder 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 (ESDC) - Labour's website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

Canada will also have the right to terminate the Contract for default if a Contractor, or any member of the Contractor if the Contractor is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list during the period of the Contract.

The Bidder must provide the Contracting Authority with a completed annex titled Federal Contractors Program for Employment Equity - Certification, before contract award. If the Bidder is a Joint Venture, the Bidder must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification, for each member of the Joint Venture.

5.1.4 Former Public Servant

A3025T (2020-05-04) 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 FPSs, bidders must provide the information required below before contract award. If the answer to the questions and, as applicable the information required have not been received by the time the evaluation of bids is completed, Canada will inform the Bidder 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 bid non-responsive.

PART 6 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

6.1 Security Requirements

The following security requirements (SRCL and related clauses provided by the Contract Security Program) apply and form part of the Contract:

1. The Contractor must, at all times during the performance of the Contract, hold a valid Designated Organization Screening (DOS), issued by the Contract Security Program (CSP), Public Works and Government Services Canada (PWGSC).
2. The Contractor personnel requiring access to PROTECTED information, assets or sensitive site(s) must EACH hold a valid RELIABILITY STATUS, granted or approved by the CSP, PWGSC.
3. The Contractor MUST NOT remove any PROTECTED information or assets from the identified site(s), and the Contractor must ensure that its personnel are made aware of and comply with this restriction.

4. Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of the CSP, PWGSC.
5. The Contractor must comply with the provisions of the:
 - a) Security Requirements Check List attached at Annex H;
 - b) Contract Security Manual (Latest Edition).

6.2 Statement of Work

The Contractor must perform the Work in accordance with all Statement of Works, Performance Specifications and the technical and management portions of the Contractor's proposal entitled _____, dated _____.

6.2.1 Condition of Material

The Contractor must provide material that is new production of current manufacture supplied by the principal manufacturer or its accredited agent. The material must conform to the latest issue of the applicable drawing, specification and part number, as applicable, that was in effect on the bid closing date.

6.3 Standard Clauses and Conditions

All clauses and conditions identified in the Contract 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>) issued by Public Works and Government Services Canada.

6.3.1 General Conditions

2010A (2022-12-01), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.3.2 Supplemental General Conditions

4001 (2015-04-01), Hardware Purchase, Lease and Maintenance excluding Lease

4002 (2010-08-16), Software Development or Modification Services

4006 (2010-08-16), Contractor to Own Intellectual Property Rights in Foreground Information.

6.4 Term of Contract

6.4.1 Period of the Contract

The Contract period shall be for 36 months from the date of Contract award.

6.4.2 Delivery Date

All the deliverables under the acquisition contract must be received no later than 24 months after contract award.

6.4.3 Option to Extend the Contract

The Contractor grants Canada the irrevocable option to purchase optional equipment for a period of 36 months from the date of Contract award. The Contracting Authority will advise the Contractor, in writing, if optional equipment is required by DND.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Oscar Garate

Supply Team Leader

Public Works and Government Services Canada, Acquisitions Branch

Directorate: Electronics, Munitions and Tactical Systems Procurement Directorate (EMTSPD)

Address: PDP 3, Place du Portage

Telephone: 873 355 3354

E-mail address: Oscar.Garate@tpsgc-pwgsc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

6.5.2 Technical Authority

The Technical Authority for the Contract is:

To be filled in at Contract Award.

The Technical Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Technical Authority, however the Technical Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

6.5.3 Procurement Authority

The Procurement Authority for the Contract is:

To be filled in at Contract Award.

The Procurement Authority is the representative of the department or agency for whom the Work is being carried out under the Contract. The Procurement Authority is responsible for all matters concerning the administration of the Contract. The Contractor may discuss administrative matters identified in the Contract with the Procurement Authority; however the Procurement Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

6.5.4 Contractor's Representative

To be filled in at Contract Award.

6.6 Payment

6.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under this Contract, the Contractor will be paid firm prices in accordance with Annex B Basis of Payment.

The following Basis of Payment terms will apply:

FOB Destination Incoterms 2020 Delivery Duty Paid (DDP)

Transportation/ Shipping charges: Included

Canadian Customs/Duties: Included

GST/QST/HST: Extra

6.6.2 Multiple payments

H1001C (2008-05-12) Canada will pay the Contractor upon completion and delivery of units in accordance with the payment provisions of the Contract if: an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract; all such documents have been verified by Canada; the Work delivered has been accepted by Canada.

6.6.3 Limitation of Price

SACC Manual clause C6000C (2017-08-17)

6.6.4 Electronic Payment of Invoices – Contract

The Contractor accepts to be paid using a Direct Deposit (Domestic and International) and/or Wire Transfer (International Only).

6.7 Delivery, Inspection and Acceptance

6.7.1 Delivery Point

The Contractor must ship the goods prepaid DDP - Delivered Duty Paid to 25 Canadian Forces Supply Depot (CFSD) by appointment only. The Contractor or its carrier must arrange delivery appointments by contacting the Depot Traffic Section at the appropriate location shown below. The consignee may refuse shipments when prior arrangements have not been made.

25 CF Supply Depot Montreal,
6363 Notre Dame St. E.
Montreal, Quebec H1N 3V9

6.7.2 Invoicing Instructions

Invoices must be distributed as follows:

- (a) The original invoice and one copy to the Consignee (25 CFSD);
- (b) One (1) Copy to the Contracting Authority; and
- (c) One (1) copy to the Procurement Authority.

6.7.3 Packaging

The Contractor must prepare all items for delivery in accordance with the latest issue of the Canadian Forces Packaging Specification *D-LM-008-036/SF-000*, DND Minimum Requirements for Manufacturer's Standard Pack.

The Contractor must package all items in quantities of one per package.

6.7.4 Inspection and Acceptance

The Technical Authority is the Inspection Authority. All reports, deliverable items, documents and goods rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document or good not be in accordance with the Requirements and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

6.7.5 Quality Control

D5515C (2010-01-11) Quality Assurance Authority (Department of National Defence) - Foreign-based and United States Contractor

6.7.6 Release documents

The Contractor must prepare the release documents in a current electronic format and distribute them as follows:

- a. One (1) copy mailed to consignee marked: "Attention: Receipts Officer";
- b. Two (2) copies with shipment (in a waterproof envelope) to the consignee;
- c. One (1) copy to the Contracting Authority;
- d. One (1) copy to:
National Defence Headquarters
MGen George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A 0K2
Attention: DAP 7-3-6

6.8 Certifications and Additional Information**6.8.1 Compliance**

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

6.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario, Canada.

6.10 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 Articles of Agreement;
- (b) the general conditions 2010A, (2022-12-01);
- (c) Annex B, Basis of Payment;
- (d) Annex A, Statement of Work;
- (e) Contractor's bid dated _____ (*insert date of bid*)

6.11 Defence Contract

SACC Manual clause A9006C (2012-07-16)

6.12 SACC Manual Clauses

B7500C (2006-06-16) Excess Goods
C2000C (2007-11-30) Taxes - Foreign-based Contractor
D0050C (2007-05-25) End User Certificate
D6010C (2007-11-30) Palletization
D9002C (2007-11-30) Incomplete Assemblies

6.13 Dispute Resolution

- (a) The parties agree to maintain open and honest communication about the Work throughout and after the performance of the contract.
- (b) The parties agree to consult and co-operate with each other in the furtherance of the contract and promptly notify the other party or parties and attempt to resolve problems or differences that may arise.
- (c) If the parties cannot resolve a dispute through consultation and cooperation, the parties agree to consult a neutral third party offering alternative dispute resolution services to attempt to address the dispute.
- (d) Options of alternative dispute resolution services can be found on Canada's Buy and Sell website under the heading "Dispute Resolution".

ANNEX A
STATEMENT OF WORK
W8475-235521

1. TITLE

Statement of Work (SOW) for Tactical Data Link (TDL) Ground Entry Point (GEP) Shelters.

2. OVERVIEW

The Canadian Armed Forces (CAF) has a requirement to update its Tactical Data Link (TDL) infrastructure and install Ground Entry Points (GEP) at various strategic locations across Canada, thus creating a need for a shelter to house electronic communication systems and be able to withstand the harsh climatic conditions of Canada's northern environment.

Taking advantage of analytical and engineering work already done by other elements of the CAF, TIC3 Air determined that a MSVS V6 Shelter or equivalent is the right fit for service for the CAF's modernization of its TDL capabilities.

3. DELIVERABLES AND SCOPE OF WORK

The Supplier must deliver the items and services outlined in Section 3 of this document "Deliverables and Scope of Work" in accordance with the Appendix A1- TDL GEP Shelter Specifications and the terms stipulated in the section 5 of this document "General Instructions".

3.1. 16 TDL GEP Shelters as per the Appendix A1 - TDL GEP Shelter Specifications.

3.2. Project Management

3.2.1. General Schedule Requirements

- a. The Supplier must provide the Production Schedule at the Contract Award Meeting.
- b. The Production Schedule must be updated in the Monthly Progress Review.
- c. The Production Schedule must be base-lined and clearly identify tasks, milestones, and critical path.

3.2.2. Project Related Meetings (PRM)

- a. Kick-off Meeting. The Supplier must conduct a meeting at their facility within 30 calendar days after contract award to discuss schedule and work, as well as milestones and deliverables.
- b. Progress Review Meetings. The Supplier must conduct a Progress Review Meeting (PRM) on a quarterly basis to provide updates on the project. The PRM, can be held jointly with any other design and technical meetings. The Supplier is not expected to travel for these meetings.
- c. Project Close-Out Meeting. The Supplier must host and conduct a Project Close-Out (PCO) meeting after the last system and subsystems delivery to discuss any outstanding issues and support.
- d. Unscheduled Meetings. Other meetings may be requested by the Supplier or Canada when issues arise that need to be solved. Upon agreement between all parties that such a meeting is required, the Supplier must participate in the meeting.

3.2.3. Reports

- a. The Supplier must prepare and submit the report for each PRM.
- b. The Supplier must prepare and deliver a Project Close-out Report, which must include:
 - i. Outstanding issues related to delivery of systems and subsystems;
 - ii. Deviations from contracted requirements, if any; and
 - iii. Trade-off and risk resolution approach to deviations.

3.3. System Engineering

3.3.1. Production Design Review (PDR)

- a. A PDR must be held to review the detailed design of all requirements stipulated in this document and its appendices and to ensure that the design implementation has met the requirements.
- b. The Supplier must prepare and submit the System Design Specification (SDS) Document to Canada for approval. This must include but not limited to the following:
 - i. Product description;
 - ii. Systems Architecture, equipment layout, and connectivity; and
 - iii. Sub-components Connection Diagram.

3.3.2. Factory Acceptance Test (FAT)

- a. The supplier must conduct a FAT at their facility and give Canada the option to attend and witness the FAT.
- b. The Supplier must produce a FAT Plan for Canada's approval.
- c. The Supplier must produce a FAT Report for Canada's approval.

3.3.3. Shelter Acceptance Test (SAT)

- a. The SAT must be conducted in a live environment in coordination and supervision of the TA.
- b. The Supplier must produce a SAT Plan for Canada's approval.
- c. The Supplier must produce a SAT Report for Canada's approval.

3.4. ILS Requirements.

3.4.1. The Supplier must provide the following Drawings, Associated Lists, and Cataloguing as required.

- a. The shelter system and its constituent components, including reusable shipping and storage containers supplied by the Contractor must be catalogued and be held by Canada to support operation, training, and maintenance.
- b. Where the Equivalent products have already been catalogued under a North Atlantic Treaty Organization (NATO) Stock Number (NSN), the Contractor must provide information which identifies the items to the satisfaction of Canada allowing for Canadian Armed Forces (CAF) adoption of those existing NSN.
- c. Where accountable any items that do not already have Unique Item Identifiers (UII), the Contractor must assign and affix UIIs to these items.
- d. Where items have not already been catalogued, the Contractor must provide the technical documentation required for their codification and cataloguing. This technical documentation must include a Level 1 drawing package which conforms to the standards of D-01-400-001/SG-000, Engineering Drawings Practices.

3.4.2. Operation and Technical Publications. The Contractor must provide technical publications and documentation to enable Canadian Armed Forces members, or any persons working on behalf of the Department of National Defence to operate and maintain the Shelter system safely and effectively. These publications and documents must include the following in English (and French if available):

- a. Detailed Operating Instructions;
- b. Operating Limitations (may be included within the Operating Instructions);
- c. Emergency Procedure documentation and checklists (may be included also within the Operating Instructions); and
- d. Maintenance Instructions and supporting manuals and documentation required for preventative and corrective maintenance.

3.4.3. Initial Cadre Training (ICT)

- a. The Supplier must design the Operator and Maintenance courses to explain all operator functions, basic fault finding, and corrective maintenance tasks on the delivered systems.
- b. Training Package
 - i. The training and course materials must be in English (and in French if available).
 - ii. The Supplier must submit to Canada a training package for the course, inclusive of training presentations and Recommended Training Materials List (RTML), no later than 1 month before the conduct of the course.
 - iii. The RTML must include training material, training aids, and any other Supplier delivered equipment that would be necessary for the conduct of the Operator and Maintainer courses as appropriate.
- c. Conduct of Training.
 - i. The Supplier must conduct one serial of Operator and Maintainer training for up to 12 RCAF personnel as an initial "Train the trainer" course. This course must be conducted at a location mutually agreed by Canada and the Supplier, no earlier than 4 weeks after the delivery of the first Shelter.

4. OPTIONAL DELIVERABLES AND SCOPE OF WORK

When requested by Canada the Supplier must allow for the delivery of items and services outlined in Section 4 of this document.

- 4.1. The Supplier must allow for the optional purchase of an additional 4 shelters.
- 4.2. Systems Installation and Integration
 - 4.2.1. Canada will remain overall responsible for the site Installation and Integration and the associated scope of work.
 - 4.2.2. When tasked by Canada, the Supplier must remain responsive and provide the requested support (on-site and off-site) to DND personnel for the installation and integration of delivered Shelters and its subsystems at the locations specified in Annex D – Installation Sites.
 - 4.2.3. The Supplier must respond with Price and Schedule, within 10 calendar days of receipt of the request for quote.
 - 4.2.4. The Supplier must commence work within 20 calendar days of receipt of a tasking request. Material lead time and force majeure are exemptions.

5. GENERAL INSTRUCTIONS

- 5.1. Pre-Contract Award demonstration
 - a. As part of bid evaluations, selected Bidder must conduct a demonstration for each of the requirements where Pre-Contract Award demonstration is stipulated as Proof of Compliance (PoC) in the Section 1 of Appendix A1 - TDL GEP Shelter Specifications.
 - 5.1.1. The Bidder with highest preliminary combined rating (technical merit and price), referred in this document as 'selected Bidder', must be ready to demonstrate, within 10 business days of notification of an invitation for demonstration.
 - 5.1.2. The demonstration must be held in the Supplier's facilities and completed in no more than 4 days.
 - 5.1.3. The demonstration must provide physical evidence for the following.

- a. The bidder has the Engineering and manufacturing capacity to deliver the requirement of the contract within timeframe outlined in their own bid.
 - b. Previous or existing Projects where the bidder has or will deliver a shelter system equivalent or better than the requirement specified in Appendix A1.
 - c. Demonstrate expertise, experience, or demonstration of proposed system for rated elements of the requirement where bidder has committed to deliver.
- 5.1.4. The following is accepted as physical evidence:
- a. Detail of previous or current product design and Production.
 - b. Demonstration of proposed product or system.
 - c. Business and resources planning clearly demonstrating capacity and feasibility.

6. TRAVEL and LIVING

The Contractor will be reimbursed its authorized travel and living expenses reasonably and properly incurred in the performance of the Work, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the National Joint Council Travel Directive, (<http://www.njc-cnm.gc.ca/directive/travel-voyage/index-eng.php>), and with the other provisions of the directive referring to "travelers", rather than those referring to "employees".

All travel shall be authorized in advance and in writing by the DND Procurement Authority (PA) prior to making any travel arrangements. The Contractor shall provide the details of the travel and living expenses with each claim including copies of invoices and remit original receipts to the PA for reimbursement. All travel and living expenses are subject to Government Audit before or after the claim is paid.

- (a) All prices are exclusive of Harmonized Sales Tax (HST) unless otherwise indicated.
- (b) All applicable taxes shall be incorporated into all invoices and shown as a separate item on invoices. All items that are exempt or to which the HST does not apply, must be identified on all invoices.
- (c) All Equipment shall be priced Delivered Duty Paid (DDP – Incoterms 2020) and Canadian Customs Duty included, where applicable.

APPENDIX A1

**Tactical Data Link (TDL) Ground Entry Point (GEP) Shelter Specifications
(20 FT LONG WITH MECHANICAL ROOM)**

W8475-235521

Section 1

TDL GEP Shelter Specification

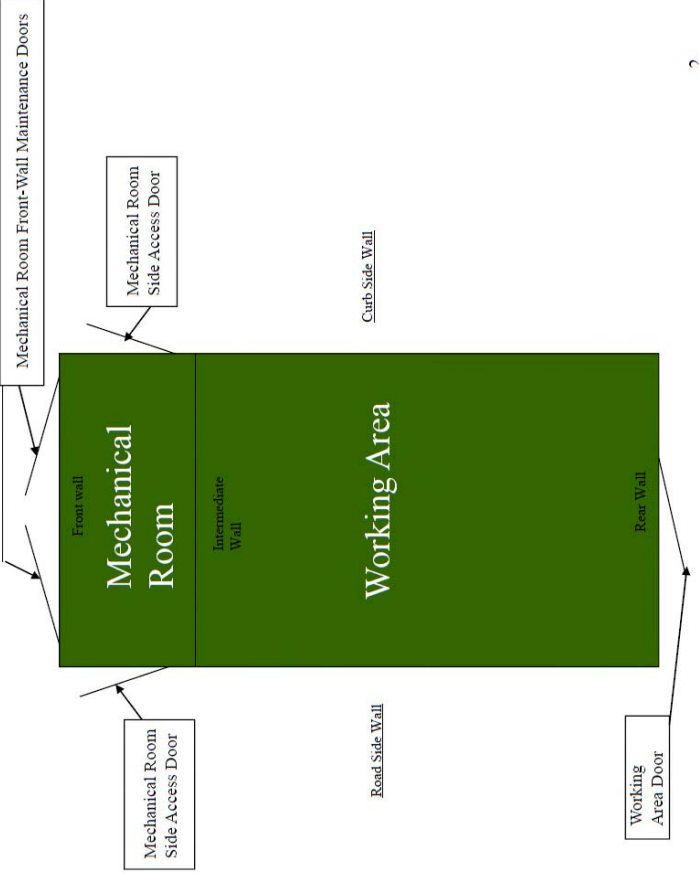
Ser No.	Specification	Proof of Compliance (PoC) Requirements
1.1	Section 1 of this document outlines the overall required specification for the TDL GEP Shelter. These specifications are in addition to the Baseline Product specifications as stipulated in the Section 2 and Section 3 of this document.	Statement
1.1.1	The proposed TDL GEP Shelter must be compliant with the Baseline Product specifications outlined in Section 2 and Section 3 of this document. These requirements are based on the MSVS SEV ISTAR V6 (NSN 20-006-2757) Shelter specification.	Verification Cross-Reference Matrix in Bidder's format with references to bid for PoC.
1.1.2	The proposed Shelter must be fit for purpose and adhere to the Baseline Product's fit form and function, maintaining all relevant safety and operational certifications.	Pre-Contract Award demonstration
1.1.3	Except for the mandatory and rated requirements listed in this Section, the proposed system must match or exceed all parameters and system performance specification of the Baseline Product stipulated in Section 2 and Section 3 of this document.	Pre-Contract Award demonstration
1.2	Smart Power Source Controller (SPSC)	N/A
1.2.1	The proposed system must be delivered with a Smart Power Source Controller (SPSC) which will automatically transition between the external power source and the internal power source.	Statement
1.2.2	The SPSC must allow for manual switching between the external power source and internal generator power.	Statement
1.2.3	Upon detection of loss of external power or the manual power supply switch is at 'internal power' position, the SPSC must be able to start the internal power generator and transition to the internal power source.	Statement
1.2.4	Upon detection of external power input and the manual power supply switch is at 'external power' position, the SPSC must automatically	Statement

	transition from its internal power to the external power source.	
1.2.5	The transition from external source power to internal generator power and vice versa must not exceed 45 seconds.	Statement
1.2.6	Upon the transition from internal power to external power source completed, the SPSC must shut down the internal power generator.	Statement
1.2.7	The SPSC should have 1 mini-terminal block for output relay which can be linked to the environmental monitoring system to notify the operator on the state of the power source (Internal or External).	Statement
1.2.8	The SPSC should have a 1 mini-terminal block for output relay which can be linked to the environmental monitoring system to notify the operator on the state of the internal power source (serviceable or non-serviceable). Note: After three consecutive failed attempts to start the internal power source, it will be considered non-serviceable.	Statement
1.3	Shelter Structure Modifications	N/A
1.3.1	The proposed system should be equipped with an automatic fire suppression system in both the mechanical room and working area that is capable of suppressing class A, B, and C fires.	Pre-Contract Award demonstration
1.4	Remote Environment Monitoring and Control	
1.4.1	The proposed system should be delivered with the integrated circuitry that allows for remote monitoring the warning systems specified in subsection 5.8 of this document, via terminal blocks for output and input which can be linked to a local environment monitoring and control element.	Statement
1.4.2	The proposed system should be delivered with the integrated circuitry that allows the operator to remotely monitor and control the HVAC system specified in section 9.0 of this document, via terminal blocks for output and input which can be linked to a local environment monitoring and control element.	Statement
1.5	Shelter Delivery Timelines	N/A
1.5.1	The Supplier should complete the deliveries of at least 1 Shelter within 12 months from the date of contract award	Pre-Contract Award demonstration
1.5.2	The Supplier should complete the deliveries of all 16 Shelters within 18 months from the date of the contract award	Pre-Contract Award demonstration

Section 2

Baseline Product specifications

Para Number	TECHNICAL REQUIREMENTS
1	1 SCOPE
1.2.0-1	This document defines the Baseline Product specifications and technical requirements for the shelters to be used for the TIC3 Air program.
2	2 General Requirements
2.0-1	TIC3 Air requires the manufacture and delivery of purpose-built ISO Containerized Shelters with on-board power generator, HVAC and electrical distribution equipment. Shelters shall be ISO 668 designation 1C. The interior of the shelter must be divided into 2 rooms by an intermediate wall. These rooms will be referred to as the mechanical room and working area.
2.0-2	The shelter orientation is defined by the following sketch:

Para Number	TECHNICAL REQUIREMENTS
	 <p>The diagram illustrates a shelter layout. On the left is a green-shaded 'Mechanical Room'. It is divided by an 'Intermediate Wall' into a 'Front wall' section and a 'Rear Wall' section. Above the Front wall is a box labeled 'Mechanical Room Front-Wall Maintenance Doors'. To the left of the Mechanical Room is a box labeled 'Mechanical Room Side Access Door'. To the right of the Mechanical Room is a larger green-shaded 'Working Area'. Below the Working Area is a box labeled 'Working Area Door'. The area between the Mechanical Room and the Working Area is labeled 'Road Side Wall'. The area to the right of the Working Area is labeled 'Curb Side Wall'.</p>
3	<p>3 Performance Requirements</p>
3.0-1	<p>All equipment that must be removed from the shelter in order to achieve ISO compliant shipping dimensions must be removable, while the shelter is on the ground, with a two person crew within 30 min using tools provided by the contractor that are stored in the mechanical room and without the requirement for additional external aid to assist in this task (ie. heavy lift). For purposes of this specification, ISO compliant shipping dimensions are those required to achieve compliance for transport within Intermodal Transportation Systems, and IAW ISO 668. Note: The time limit referred to here applies to a setting that is protected from the climate (indoors) or favourable climactic conditions. In the event of extreme or inclement weather conditions, it is acknowledged that more time will be necessary to carry out this action.</p>
3.0-2	<p>All equipment that must be removed from the shelter to allow for transportation with its prime mover must be removable within 5 min with a 2 person crew using tools provided by the contractor that are stored in the mechanical room. Such equipment includes any</p>

Para Number	TECHNICAL REQUIREMENTS
	ancillaries that extend beyond the roofline or width of the shelter.
3.0-3	The shelter must be capable of operating, without decrease of more than 3% of operating capacity, on the Single Fuel Concept IAW STANAG 4362 without changing any components or sub-components, and without any requirement to adjust the system.
3.0-4	All equipment that must be removed from the shelter in order to achieve ISO compliant shipping dimensions and to allow for transportation with its prime mover shall be safely stowed inside the shelter.
3.1	3.1 Weight
3.1.0-1	The shelter's weight, without equipment installed by the end user, must not exceed 4530 kg with all components and ancillaries fully fuelled and ready to commence operation.
3.2	3.2 Centre of Gravity
3.2.0-1	The Centre of Gravity (C of G) of the shelter in the shipping configuration, and the configuration for transportation with prime mover, must conform to ISO 8323, Section 4.5, sub-paragraphs a and c. The Contractor must determine the shelter's C of G through physical measurement with the shelter's components and ancillaries fully fueled and in the configuration for transportation on the prime mover. The Contractor must provide a corresponding test report confirming that the shelter's C of G conforms to ISO 8323, section 4.5, sub-paragraphs a and c.
3.3	3.3 Transportability
3.3.0-1	The shelter must be capable of being mounted and dismounted by each of the following systems, each operating independently: load handling system, crane, forklift.
3.3.0-3	The shelter must be capable of being transported by air, land, and sea shipping methods IAW ASTM E 1925, Section 7.37.
3.3.0-4	The design of the shelter must be such that the mechanical room components containing Petroleum, Oil, Lubricants (POL) or other fluids required for their operation cannot spill while the shelter follows the contracted mission profile and mobility standard of the prime mover, including the loading and unloading of the Palletized Loading System (PLS).
3.4	3.4 Precipitation Accumulation
3.4.0-1	The shelter and ancillaries must be constructed such that water does not accumulate IAW ASTM E 1925 Section 7.9.
3.5	3.5 Altitude
3.5.0-1	The shelter must be constructed to allow pressure equalization without damage as specified in ASTM E 1925 Section 7.11.

Para Number	TECHNICAL REQUIREMENTS
3.6	3.6 Humidity Resistance
3.6.0-1	The shelter must be capable of operating in and withstanding high relative humidity and temperature environments as indicated in ASTM E 1925, Section 7.12.
3.7	3.7 Corrosion Resistance
3.7.0-1	The shelter including all hardware and fasteners, which must be self-locking, and seals must be resistant to corrosion IAW ASTM E 1925, Section 7.13.
3.7.0-2	The underside of the shelter must be treated with a protective coating.
3.7.0-3	The contractor must identify any commercial products that could be applied as part of a compatible corrosion protection system without voiding any shelter warranties.
3.8	3.8 Fire Resistance
3.8.0-1	The shelter's intermediate wall must have a minimum of 30 minute fire resistance tested in accordance with CAN/ULC S101-07, Standard Method of Fire Endurance Tests of Building Construction.
3.9	3.9 Fungus
3.9.0-1	All synthetic polymeric material components used in the shelter must be resistant to fungal growth IAW ASTM E 1925 section 7.21.
3.10	3.10 Roof loads
3.10.0-1	The shelter's roof must meet the strength requirements IAW ASTM E 1925, Section 7.24. The Contractor must test the shelter IAW ASTM E 1925, Section 10.22 and provide a corresponding test report confirming that the strength of the roof complies with ASTM E 1925, section 7.24.
3.11	3.11 Floor loads
3.11.0-1	The shelter's floor must be able to support loads IAW ASTM E 1925 Section 7.25. The Contractor must test the shelter IAW ASTM E 1925, Section 10.23 and provide a corresponding test report confirming that the strength of the floor complies with ASTM E 1925, section 7.25.

Para Number	TECHNICAL REQUIREMENTS
3.12	3.12 Door loads
3.12.0-1	All frames, hardware and doors, <u>must</u> be capable of withstanding loading IAW ASTM E 1925, Section 7.26.
	The Contractor must test the shelter IAW ASTM E 1925, Section 10.24 and provide a corresponding test report confirming that the strength of the personnel door and mechanical room access doors comply with ASTM E 1925, section 7.25.
3.13	3.13 Accessibility
3.13.1	3.13.1 Not used
3.13.2	3.13.2 Roof access
3.13.2.0-1	The shelter <u>must</u> be equipped with a roof access ladder designed with an 8" rung inside dimension.
3.13.2.0-2	Not used
3.13.2.0-3	The roof access ladder <u>must</u> be positioned on and secured to the external rear roadside surface of the shelter.
3.13.2.0-4	The roof access ladder assembly <u>must</u> have a handrail that extends beyond the roof of the shelter for ease and safety of mounting and dismounting. The handrail will be located on the left hand side of the ladder.
3.13.2.0-5	The roof access ladder handrail <u>must</u> be retractable, and be able to be retracted and extended by one person, while on the ladder and maintaining three points of contact. This feature is to allow the shelter to be transported with its prime mover, such that no part of the ladder extends beyond the roofline.
3.13.2.0-6	The roof access ladder <u>must</u> be accessible directly from the working area while the working area door is open and the shelter is mounted on the prime mover.
3.13.2.0-7	The roof access ladder <u>must</u> be accessible from the ground.
3.13.3	3.13.3 Component Access
3.13.3.0-1	All exterior components and ancillaries that must be accessible for transport and operation of the shelter <u>must</u> be accessible when the shelter is both mounted and dismounted from the prime mover.

Para Number	TECHNICAL REQUIREMENTS
3.13.3.0-2	All components and ancillaries located in the mechanical room that are required for use and operation of the shelter, <u>must</u> be accessible from a "Mechanical Room Side Access Door" when the shelter is both mounted and dismounted from the prime mover.
3.14	3.14 Physical Security
3.14.0-1	When in configuration for transport each door on the shelter, and the fuel cap for the shelter, <u>must</u> be secured with a padlock IAW ASTM F 883 requirement F2S2.
3.14.0-2	The contractor provided set of padlocks on each Shelter <u>must</u> be keyed-alike padlocks.
3.14.0-3	No two shelters <u>must</u> be keyed alike.
3.15	3.15 Noise Levels
3.15.0-1	The noise experienced at every point inside the working area, when the shelter is under stationary operational conditions with the generator at OEM-recommended output rating, and the loudest of either the fuel fired heater or air conditioner, functioning <u>must not</u> exceed 65 dBA.
3.15.0-3	The noise experienced outside of the shelter when the shelter is under stationary operational conditions with the generator at OEM-recommended output rating, and the loudest of either the fuel fired heater, or air conditioner, functioning <u>must not</u> exceed 75 dBA, 7m from any outer edge of the mechanical room.
3.16	3.16 Vibration Generation
3.16.0-1	<p>The vibrations experienced inside the working area under stationary operational conditions with all the components listed below running at the same time, any one of the components listed below running by itself, and any combination of the components below running at the same time <u>must</u> be below the Health guidance caution zones for expected daily exposures as defined by ISO 2631-1 Annex B.</p> <p>The components are as follows:</p> <ul style="list-style-type: none"> - the generator at OEM-recommended output rating, - fuel fired heater and fan - air conditioner and fan <p>The Contractor must measure the vibrations induced in the shelter floor by the equipment in the mechanical room under the following conditions and compare those measurements to the daily vibration exposure limits defined by ISO 2631-1 Annex b:</p> <ol style="list-style-type: none"> a. Test condition 1: With the generator running at OEM rated load and the fuel fired heater running b. Test condition 2: With the generator running at OEM rated load and the air conditioners running

Para Number	TECHNICAL REQUIREMENTS
	The Contractor must provide a test report outlining the measurements conducted and confirming that they remain below the Health guidance caution zones for daily exposures as defined by ISO 2631-1 Annex B.
3.17	3.17 Construction
3.17.0-1	The shelter <u>must not</u> contravene the National Fire Code of Canada.
3.17.0-2	The shelter <u>must</u> have a "Maximum operating gross weight (R)", as defined by the International Convention for Safe Containers (CSC), of at least 10,000 kg.
3.18	3.18 Leveling Devices
3.18.0-1	The shelter <u>must</u> have brackets or attachment points that will accept jacking device NSN 5411-21-914-7558 (Jack, External, Corner Assembly).
3.19	3.19 Watertightness
3.19.0-1	The shelter <u>must</u> be watertight IAW ASTM E 1925, section 7.35
3.20	3.20 User Characteristics
3.20.1-1	The shelter design <u>must</u> accommodate all dimensional characteristics in accordance with DCIEM Report 98-CR-15. Note: Throughout this document, if there are discrepancies between MIL-STD-1472 and the anthropometric data in the DCIEM Report, the latter will take precedence.
3.21	3.21 Climate
3.21.1-1	The shelter <u>must</u> be able to operate in climates detailed in STANAG 4370, AECTP - 200, conditions A1 through C2 inclusive and M2 unless otherwise specified.
3.22	3.22 Construction Material
3.22.1-1	The exterior skin of the shelter <u>must</u> be fabricated from corrosion resistant material. Corrosion resistance is defined as the material's ability to resist deterioration caused by exposure to the environment through the formation of a natural oxide layer, or through the application of a galvanic coating. If steel is used, the steel <u>must</u> have an atmospheric corrosion resistance index (I) greater than 6.0 IAW ASTM G 101-04.

Para Number	TECHNICAL REQUIREMENTS
4	4 Structural Requirements
4.1	4.1 General
4.1.0-1	The contractor <u>must</u> be responsible for certifying and plating the shelter IAW the Convention for Safe Containers (CSC).
4.1.0-2	The shelter <u>must</u> have corner fittings IAW a 1C container as per ISO 668, section 5.4
4.1.0-4	The shelter <u>must</u> withstand drop shock as per ASTM E 1925, Section 7.3.1.
	The Contractor must test the shelter, as prepared for intermodal transportation, IAW ASTM E 1925, Section 7.3.1 and provide a corresponding test report confirming that the shelter can withstand the drop test IAW ASTM E 1925, section 7.3.1.
4.1.0-5	The shelter <u>must</u> be produced from new stock and materiel that has not been previously used.
4.1.0-6	The shelter exterior side and end walls <u>must</u> be constructed from flat panels. Corrugated shelter walls are not permitted.
4.2	4.2 Shipping Dimensions
4.2.0-1	The shelter exterior ISO shipping configuration dimensions <u>must</u> be of a type 1C container IAW ISO 668.
4.3	4.3 Intermediate Wall
4.3.0-1	The intermediate wall <u>must</u> be a fixed, rigid steel wall.
4.4	4.4 Working Area Dimensions
4.4.0-1	The interior height of the working area <u>must</u> be nominally 85" to allow a 95th percentile male to walk upright wearing the full complement of combat clothing and kit. Ducting and electrical devices are not included in this measurement.
4.4.0-2	The working area's interior length from wall to wall <u>must</u> be maximized and no less than 4600 mm (15' 1") for the main compartment.
4.4.0-3	The working area's interior width from wall to wall <u>must</u> be maximized and no less than 2235 mm (7' 4") at all points from floor to ceiling.
4.5	4.5 Structural Integrity
4.5.0-1	The shelter <u>must</u> have as a minimum, an "allowable stacking weight for 1.8g" of 60,960kg IAW CSC, Stacking.
4.5.0-2	The shelter <u>must</u> be weatherproof IAW ISO 1496-1.
4.5.0-5	The shelter, including mechanical room equipment and equipment mounts <u>must</u> withstand transport by rail IAW MIL-STD 810H, Method 526.2.

Para Number	TECHNICAL REQUIREMENTS
	The Contractor must test the shelter IAW MIL-STD-810H, Method 526.2. During the test, accelerometers must be installed on all equipment mounts for components in the mechanical room. Upon completion of the test, the shelter is to be examined for damage and tested functionally. The success of the test, and compliance to this requirement, will be a lack of damage to the shelter, that all equipment in the shelter functions after the test and that the accelerometer data on the equipment mounts shows that the mounts are of sufficient strength to withstand the impact. The Contractor will provide a corresponding test report outlining the test results and confirming that the success criteria, as defined above, has been met.
4.6	4.6 Flat Interior Surfaces
4.6.0-1	The shelter interior rigid walls and ceiling must be flat surfaces IAW ASTM E 1925 section 7.23, and non-porous surfaces.
	The Contractor must test the shelter IAW ASTM E 1925, Section 10.21 and provide a corresponding test report confirming that the flatness of the wall and ceiling complies with ASTM E 1925, section 7.23.
4.7	4.7 – Not used
4.8	4.8 - Not used
4.9	4.9 Forklift Pockets
4.9.0-1	The shelter must have forklift pockets compliant with the dimensions for a type 1 C "loaded and unloaded container" IAW ISO 1496-1, Annex C. Inner forklift pockets are not required.
4.10	4.10 Mechanical Room
4.10.0-1	The mechanical room components must provide all the necessary power, heating, ventilation and air conditioning to the shelter. All systems (including but not limited to the generator and power systems) must be designed so that the mechanical room components can be left running even if the shelter is being moved tactically.
4.10.0-2	The mechanical room must be constructed such that it is not classified as a Hazardous location according to the Canadian Electrical Code (CEC), Section 18.
4.10.0-3	The mechanical room must be located at the front of the shelter near the cab of the prime mover when mounted.
4.10.0-4	All necessary tools and equipment needed for the operation, operator maintenance, and shipping preparation of the shelter must be supplied by the contractor and stored inside the mechanical room in such a way as to not impede the ability of mechanical room components to function.

Para Number	TECHNICAL REQUIREMENTS
4.10.0-5	All tools and manuals supplied by the contractor <u>must</u> be stowed in the mechanical room, in a weatherproof container such that they are always protected from environmental elements, even when the mechanical room doors are open.
4.10.0-6	The mechanical room <u>must</u> contain a contractor provided portable spill kit, NSN 4235-21-920-4185, that when stowed does not impede the function of mechanical room components and can be accessed from one of the mechanical room side doors.
4.11	4.11 Fuel System
4.11.0-1	The fuel system components <u>must</u> be installed IAW OEM installation instructions and IAW the guidelines of SAE J703.
4.11.0-2	The fuel tank <u>must</u> be designed and built IAW SAE J703, section 5, from a corrosion resistant material.
4.11.0-3	The fuel tank <u>must</u> enable the generator and the fuel fired heater to operate for a minimum of 12 consecutive hours, without refueling, while the generator is at its OEM-recommended output rating and the fuel fired heater is maintaining a temperature of 18 degrees Celsius inside the working area under C2 conditions as specified in STANAG 4370 AECTP - 200 conditions.
4.11.0-4	The fuel tank <u>must not</u> be located in the working area.
4.11.0-5	The fuel tank <u>must</u> be equipped with a fuel level gauge
4.11.0-6	The fuel tank <u>must</u> be vented to the exterior of the shelter.
4.11.0-7	The fuel tank <u>must</u> be filled from an exterior side.
4.11.0-8	The fuel tank <u>must</u> have a filtration system including a fuel nozzle strainer (NSN-4730-01-572-6005) that is accessible from the exterior.
4.11.0-9	The fuel tank filtration system <u>must</u> be equipped with a 10 micron primary fuel/water filter equipped with a clear bowl drain point and a 5 micron secondary fuel filter.
4.11.0-10	The fuel tank, including the fuel filler cap and fuel filter, <u>must</u> be protected from damage, and be shielded from environmental elements while allowing air circulation.
4.11.0-11	The fuel lines <u>must</u> have non-spill quick disconnects at the component end.
4.11.0-12	The fuel tank <u>must</u> be configured to permit refueling by commercial pumps, by in-service 7,000 liter refueling vehicles with nozzle NSN: 4930-01-290-0756 and from an in-service 20 litre jerry can with spout.
4.11.0-13	The fuel cap and vent <u>must</u> prevent fuel leakage during transportation, loading and unloading on the prime mover.
4.11.0-14	The fuel cap <u>must</u> be lockable to the fuel neck with a padlock IAW ASTM F 883 requirement F252, such that during transportation fuel cannot be tampered with.
4.11.0-15	The fuel tank <u>must</u> be drainable to the exterior of the shelter through flexible tubing.
4.11.0-16	The generator and fuel fired heater <u>must</u> automatically shut down in the presence of fire in the mechanical room.

Para Number	TECHNICAL REQUIREMENTS
	The Contractor must test the shelter by confirming that the generator and fuel fired heater shut off when both the smoke or heat detector and the CO monitor are triggered. During the test both devices can be triggered separately but both devices, when triggered, must cause the generator and fuel fired heater to shut off for the test to be considered a success. The Contractor must provide a test report outlining the test methodology and the results of the successful testing.
4.12	4.12 Doors
4.12.1	4.12.1 General
4.12.1-1	All rigid wall doors <u>must</u> have hinges equipped with bushings that are resistant to deterioration for the life of the shelter due to exposure to the elements.
4.12.1-2	All door hinges <u>must</u> be accessible for replacement without the removal of interior components or sub systems.
4.12.1-3	All doors <u>must</u> be designed and constructed such that all equipment in the shelter can operate when the doors are closed and all doors are able to be opened from the exterior.
4.12.2	4.12.2 Working Area Door(s)
4.12.2.0-1	The working area <u>must</u> be accessible by a door centred on the rear wall.
4.12.2.0-2	The working area door width <u>must</u> be nominally 910 mm (36 in) without any protrusions into door opening for the entire nominal height of the door.
4.12.2.0-3	The working area door height <u>must</u> be nominally 1800mm (72 in) without any protrusions into the door opening for the entire nominal width of the door.
4.12.2.0-4	The working area door <u>must</u> be securable at the fully open position that is approximately 125 degrees.
4.12.2.0-6	The working area door hinges and mounting hardware <u>must not</u> be removable from the exterior.
4.12.2.0-7	The working area door <u>must</u> have a mechanism that allows the door to be locked from the exterior, using the padlock specified, and allows the door to be quickly opened from the interior while locked on the exterior.
4.12.2.0-8	The working area door <u>must</u> have a fully tempered-glass window with a sliding section and screen.
4.12.2.0-9	The working area door window <u>must</u> have a locking mechanism that can only be released from the interior of the shelter.
4.12.2.0-	The working area door window <u>must</u> be securable in the open position.

Para Number	TECHNICAL REQUIREMENTS
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4.12.2.0-11	The working area door window assembly <u>must</u> be designed and constructed to operate as an emergency escape hatch as specified in MIL-STD-1472, Section 5.7.7.3 for "Top and Bottom access" with "bulky clothing". The assembly shall be installed vertically with a width of no less than 16 in (410mm) and a height of no less than 27 in (690mm)."
4.12.2.0-12	The working area door window <u>must</u> have a security mechanism such that if the window glass is broken, entry to the shelter remains denied, while allowing the window to be used as an escape hatch.
4.12.2.0-13	The working area door window <u>must</u> have a roll-up "black-out" curtain IAW ASTM E 1925, Section 7.8, Blackout Requirement.
4.12.2.0-14	The working area door <u>must</u> have a window cover to be used for shipping. When not in use the window cover <u>must</u> be stored on the working area door inside the working area.
4.12.3	4.12.3 Not used
4.12.4	4.12.4 Mechanical Room Doors
4.12.4.1	4.12.4.1 Mechanical Room Side Access Doors
4.12.4.1-1	A mechanical room side access door <u>must</u> be located on each side of the shelter, and be sufficiently sized to allow the range of CF users described in this document to carry out all shelter starting and shutting down activities, and all daily maintenance and preventive maintenance tasks in the time allotted.
4.12.4.1-2	The mechanical room side access doors <u>must</u> be securable along the side walls in the fully-open position.
4.12.4.1-3	When the shelter is mounted on its prime mover, the side access doors of the mechanical room <u>must</u> be operable without the use of a ladder.
4.12.4.1-4	When the shelter is dismounted from its prime mover, the mechanical room side access door <u>must</u> be operable from a standing position.
4.12.4.2	4.12.4.2 Mechanical Room Front Wall Maintenance Doors
4.12.4.2-1	The mechanical room <u>must</u> be accessible through two maintenance doors located on the front of the shelter.
4.12.4.2-2	The mechanical room front wall maintenance doors <u>must</u> be securable in the approximate 180 degree position.
4.12.4.2-	The mechanical room front wall maintenance doors <u>must</u> allow access to remove any mechanical room components and ancillaries with

Para Number	TECHNICAL REQUIREMENTS
3	material handling equipment including, but not limited to, a forklift and crane. This is to be accomplished with the front wall maintenance doors secured in the 90 degree position.
4.13	4.13 Floor
4.13.0-1	The plywood sub-floor in the shelters <u>must</u> consist of marine grade plywood, good one side.
4.13.1	4.13.1 Working area floor
4.13.1.0-1	The working area floor <u>must</u> be non-porous, slip-resistant, highly durable, water-resistant, and scratch resistant IAW the following standards: ASTM D 2047, ASTM F 1303, and ULC S 102.2. ASTM D 2047 - The flooring shall have a static coefficient of friction of 0.5 or greater. ASTM F 1303 - The flooring shall by Type II, Grade 1, with a Class A backing". ULC S 102.2 - The flooring shall have a Flame Spread Classification (FSC) of 50 or less.
4.13.1.0-3	The flooring <u>must</u> extend nominally 100 mm (4 in) up the rigid walls and be sealed to prevent water accumulation under the floor.
4.13.1.0-4	The working area floor <u>must</u> have a protective plate at the door entry to prevent premature wear by door or users
4.13.1.0-5	The shelter working area floor <u>must</u> provide an insulating value of a minimum R8.
4.13.2	4.13.2 Mechanical room floor
4.13.2.0-1	The floor of the mechanical room <u>must</u> be slip resistant and nonporous for ease of cleaning.
4.13.2.0-2	Provision <u>must</u> be made in the mechanical room to contain the maximum quantity of fluid, plus 10%, that could discharge from components in the mechanical room in the event of component failures.
4.14	4.14 Passthroughs
4.14.0-1	Passthroughs <u>must</u> be recessed with a frame of nominal inside dimensions of 152 mm (6 in) x 152 mm (6 in), unless otherwise stated.
4.14.0-2	All passthroughs <u>must</u> have a removable cover system that is secured from the interior of the working area unless otherwise stated and can be interchanged to cover any other passthroughs of the same nominal dimensions.
4.14.1	4.14.1 Not Used

Para Number	TECHNICAL REQUIREMENTS
4.14.2	4.14.2 Curbside wall
4.14.2.0-1	One passthrough in the curbside wall <u>must</u> be below threaded insert row (b), while not interfering with the floor lip, and located horizontally IAW Appendix 1.
4.14.2.0-2	A second passthrough in the curbside wall <u>must</u> be located IAW Appendix 1.
4.14.3	4.14.3 Roadside Wall
4.14.3.0-1	One passthrough in the roadside wall <u>must</u> be below threaded insert row (b) while not interfering with the floor lip, and located horizontally IAW Appendix 1.
4.14.3.0-2	A second passthrough in the roadside wall <u>must</u> be located IAW Appendix 1.
4.14.4	4.14.4 Rear wall
4.14.4.0-1	The shelter <u>must</u> have a rear wall passthrough (Passthrough A with dimensions as shown in Appendix 1) on the curb-side of the shelter with a permanently installed metal plate, recessed 2inches (nominally 50 mm) that will be used to attach communication interfaces at a later date.
4.14.4.0-2	The shelter <u>must</u> have a rear wall passthrough (Passthrough B with dimensions as shown in Appendix 1) on the curbside of the shelter with a metal plate installed, that meets TIR Convention 1975 regulations, that will be removed to install a communications interface panel during Phase 2 - kitting. This metal plate <u>must</u> be installed using the bolt pattern specified.
4.14.4.0-3	The rear wall passthroughs A and B <u>must</u> be protected from environmental elements with one sealed exterior cover that opens upward to allow user-access, without the use of tools.
4.14.4.0-4	The cover <u>must</u> be able to be secured in the open (170°) and closed positions and, in the event the metal plate(s) are removed, remains an integral part of the shelter so as to ensure the ability to transport the shelter IAW TIR Convention 1975 regulations.
4.14.4.0-5	The rear wall passthroughs <u>must</u> be as low to the floor as possible while not interfering with the floor lip as shown in Appendix 1.
5	5 Attachments
5.1	5.1 Not used

Para Number	TECHNICAL REQUIREMENTS
5.2	5.2 Not used
5.3	5.3 Not used
5.4	5.4 Communication
5.4.0-1	The shelter <u>must</u> provide the ability of installing, during Phase 2 - Kitting, antenna supports and antennas, IAW Antenna Support, (drawing number 9379174), NSCM 35907, for three antennas located IAW Appendix 1.
5.4.0-2	This <u>must</u> include provision of antenna wiring passthroughs with covers installed that meet TIR Convention 1975 regulations.
5.5	5.5 Fire Extinguisher
5.5.0-1	The working area <u>must</u> have an appropriate size and quantity of rechargeable ABC fire extinguishers mounted to the interior of the working area door IAW NFPA 10: Standard for Portable Fire Extinguishers.
5.5.0-2	The mechanical room <u>must</u> have an appropriate size and quantity of rechargeable ABC fire extinguishers mounted in the mechanical room IAW NFPA 10: Standard for Portable Fire Extinguishers.
5.6	5.6 Not used
5.7	5.7 Interior Mounting Points
5.7.0-1	The interior walls and ceiling of the shelter's working area <u>must</u> be fitted with a pattern of open-end 5/16-18 UNC threaded inserts IAW Appendix 1 Closed-end threaded inserts are to be used on the intermediate wall. The threaded inserts will be used for mounting C-channels.
5.7.0-3	All unused threaded inserts <u>must</u> be capped with a plastic cap.
5.7.0-4	The pull out strength and resistance to torque of each threaded insert <u>must</u> comply with ASTM E 1925, Section 7.27 with the exception that, the threaded inserts on the Roadside, Curbside, Ceiling and Firewall shall be able to withstand a pull load of 1041 lbs without deflecting more than 1/16 inches after load has been removed.
5.7.0-5	In addition to the threaded inserts described above, the shelter floor must be designed to allow the end user to permanently attach other objects (furniture, tooling, cabinetry, etc.) to the floor. The shelter <u>must</u> be designed to have the capability of securing items permanently to the floor, such as cabinets, furniture, toolboxes, server racks, and other items, independent of structural member locations, without using the D-Ring capability provided, and without necessitating the requirement to recertify the shelter IAW CSC. For clarity: the Contractor must specify a suggested floor insert or anchor that could be used by the end user to secure equipment to the

Para Number	TECHNICAL REQUIREMENTS
5.7.0-6	floor. The inserts or anchors must meet the pull out strength requirements of line 5.7.0-6. The floor must have a pull out strength, at any point in the floor, independent of floor structural members, of 300lbs. For floor loads requiring greater strength, structural members in the floor will be used to secure those items.
5.7.0-7	For excessively heavy loads, the floor must be capable of being reinforced to allow for installation of these loads during kitting.
5.8	5.8 Warning Systems
5.8.0-1	The mechanical room and working area must be equipped with a visual and audible warning system that warns for heat, smoke, carbon monoxide, and any other harmful diesel combustion product(s) recommended by the contractor, and clearly indicates what has triggered the alarm (i.e. heat, carbon monoxide, etc.).
5.8.0-3	The warning system must be hard-wired to the power system of the shelter to ensure that it functions regardless of power source.
5.8.0-5	The warning system in the mechanical room and working area must be interconnected such that if a fire or hazardous situation arises in the mechanical room, users in the working area are warned.
5.8.0-6	All warning system alarms and detectors must be ULC listed and installed IAW OEM instructions. The detectors shall have the following listing or certifications unless otherwise approved by the TA: ULC-S525: Audible signal devices for fire alarm systems ULC-S530: Heat actuated fire detectors CAN/ULC-S531: Smoke alarms CSA 6.19.01: Carbon monoxide alarm devices
5.8.0-7	The shelter warning system must be designed to prevent false alarms.
5.8.0-8	The warning system must have a switch and protective cover similar to NSN 5930-00-617-9718, located on the working area control panel that allows the audible warning system to be turned off during operational deployments when dictated by the tactical situation.
5.9	5.9 Floor attachments
5.9.0-1	The contractor must install twelve (12) D-ring type floor attachment points on the shelter floor. The D-rings must be installed IAW OEM installation instructions in two rows of 6 D-rings evenly spaced lengthwise within the working area. Each row must be 12" from each side of the centerline of the shelter.
5.9.0-4	The D-rings must be flush with the floor surface when not in use.
5.9.0-5	The installed D-rings must be corrosion resistant and have a minimum installed capacity rating of 450kg each (1000 lb).
	The Contractor must test the capacity of the D-ring installation in the following manner:

Para Number	TECHNICAL REQUIREMENTS
	<p>a) Apply a force of 450 kg to the D-ring in a direction that is perpendicular and away from the floor surface.</p> <p>b) Separately, apply a force of 450 kg to the D-ring in a direction away from the D-ring on a 45 degree angle from the floor.</p> <p>The D-rings and their attaching hardware must show no sign of deformation or defect after the test.</p> <p>The Contractor must provide a test report outlining the test results and confirming compliance of the D-rings to the required capacity.</p>
6	6 Paint and Coverings
6.0-1	The contractor <u>must</u> follow the application procedures for the CARC II system as described in reference MIL DTL-53072. This system <u>must</u> be used for both interior and exterior paints.
6.1	6.1 Exterior Paint
6.1.0-1	The shelter's outside surfaces, ladders, stairs and the interior surfaces of all doors <u>must</u> have a polyurethane topcoat IAW MIL-DTL-64159 type II, colour 34094 (flat green) IAW Fed-Std-595B.
6.2	6.2 Interior Paint
6.2.0-1	The shelter's interior surfaces <u>must</u> have an epoxy topcoat IAW MIL-PRF-22750, colour 17925 (gloss white) IAW Fed-Std-595B unless otherwise stated.
6.3	6.3 Anti-Slip Coverings
6.3.0-1	The shelter roof and doorsills <u>must</u> have a non-slip surface IAW MIL-PRF-24667, Type IV, Composition G, unless otherwise stated.
6.3.0-2	All anti-slip coverings <u>must</u> be applied before painting.
6.3.0-3	Any steps used in an access assembly <u>must</u> be constructed with a "grid" design that allows dirt, mud, or snow to pass through while providing anti-slip properties.
7	7 Electrical System
7.1	7.1 General
7.1.0-1	Electrical equipment in the shelter <u>must</u> comply with MIL-STD-461E section 5.5 CE102, section 5.16 RE102 and section 5.19 RS103 using the frequencies and limits specified in each section for Army Ground Equipment.
7.1.0-2	All electrical equipment and the wiring in the shelter <u>must</u> comply with CSA Standard C22.1 and C22.2

Para Number	TECHNICAL REQUIREMENTS
7.2	7.2 Power Sources
7.2.0-1	The shelter's primary Alternating Current (AC) power source must be an internal generator system.
7.2.0-2	The shelter's secondary (AC) power source must be another shelter or the Canadian Forces (CF) Central Power Distribution System (CPDS), CFTO C-93-491-000/MA-001 and C-93-449-000/MA-001.
7.2.0-3	A manual selector switch must be used to select primary or secondary (AC) power source.
7.2.0-4	The shelter's primary Direct Current (DC) power source, if required due to contractor design must come from an internal AC to DC converter or power supply.
7.2.0-5	The shelter's AC to DC converter or power supply, if installed must be located in the mechanical room.
7.2.0-6	The shelter's secondary (DC) power source must be from the battery system(s) located in the mechanical room.
7.2.0-7	The shelter's alternate (DC) power source must be the prime mover, providing up to 30 A, through a MS 3100E-32-5S receptacle, located on the curbside of the front wall of the shelter, protected by a guard and cover.
7.2.0-8	The shelter must be delivered with a 5 metre long cable having one MS 3106E-32-5P connector on each end to provide DC power from the prime mover to the shelter through MS 3100E-32-5S receptacles, and that is stored in the mechanical room (Variants 1 through 4) and the working area (Variant 5), when not in use.
7.2.0-9	The battery system must be able to be slaved through a connector, IAW STANAG 4074, Type 1 Connector, that is located in the mechanical room, and accessible from one of the mechanical room side access doors, in order to allow the generator to be started from an external source and to allow the shelter to start a prime mover.
7.3	7.3 Power Distribution
7.3.1	7.3.1 General
7.3.1.0-1	The shelter's power-in and power-out connectors must interface with the CF CPDS, CFTO C-93-449-000/MA-001 and C-93-491-000/MA-001. The contractor must provide and install the following: Connector, Receptacle Pin (0476232-001, NSCM 35907), NSN 5935-20-002-4330 ; Closure Cap Type 3A (0175365-001, NSCM 35907), NSN 5999-21-921-7694; and Outlet Sockets (Type 4) (0175375-001, NSCM 35907), NSN 5935-20-000-0916.
7.3.1.0-2	The contractor-supplied Cable Assy, Power, W6 (0476214-100, NSCM 35907), NSN 6150-20-001-5757 must be stored in the mechanical room adjacent to a mechanical room side access door.
7.3.1.0-4	The shelter must be able to provide secondary power (AC) to, and receive secondary power (AC) from, another compatible shelter through a W6 cable while all shelter doors are closed. The system must be designed to ensure the capacity of the W6 cable is not exceeded when shelters are connected in this manner.

Para Number	TECHNICAL REQUIREMENTS
7.3.1.0-5	The shelter <u>must not</u> provide DC power to the prime mover through the MS 3100E-32-5S receptacle.
7.3.1.0-6	The routing of all wiring inside the working area <u>must</u> be run within conduit, unless stated otherwise, located on the ceiling or wall, fastened with existing threaded insert pattern as specified in Appendix 1.
7.3.2	7.3.2 AC Power Distribution
7.3.2.1	7.3.2.1 General
7.3.2.1-1	The distribution panel (AC) <u>must</u> be located in the mechanical room.
7.3.2.1-2	The distribution panel (AC) <u>must</u> have a standard nominal capacity of 24 circuits.
7.3.2.1-5	The breaker RMS symmetrical interrupting rating <u>must</u> be minimum 10,000 Amps for Miniature Circuit Breakers (MCB) or 22,000 Amps for Molded-Case Circuit Breakers (MCCB) IAW CSA C22.2 No.5-02 such that the breaker can interrupt safely without causing damage to sensitive equipment.
7.3.2.1-6	All circuits <u>must</u> be labeled at receptacles, switches and distribution panel breakers.
7.3.2.2	7.3.2.2 Required AC Circuits and Receptacles
7.3.2.2.0	In order to ensure sufficient AC capacity for the shelters to fulfill their SEV roles, the shelters <u>must</u> have the following circuits and 125 VAC CSA configuration 5-20 RA duplex receptacles:
7.3.2.2.0 -1.0-1	<p>Eight NEMA 12 duplex receptacles controlled by four 20A MCB.</p> <p>-3 receptacles on interior roadside wall and 1 intermediate wall receptacle (access from working area) for two 20A MCB.</p> <p>-3 receptacles on interior curbside wall and 1 intermediate wall receptacle (access from working area) for two 20A MCB.</p> <p>-The selection of hardware used to maintain the NEMA 12 standard <u>must</u> retain the capability to be dismantled and modified as required.</p>
7.3.2.2.0 -1.0-4	Two duplex receptacles with weatherproof cover and Ground Fault Interrupter (GFI) located inside the mechanical room, one on each side, with access from the mechanical room side access doors.
7.3.2.2.0 -1.0-5	One duplex receptacle with weatherproof cover and Ground Fault Interrupter (GFI) located on the roadside rear external wall, accessible from the ground when the shelter is mounted on a prime mover.
7.3.2.2.0 -1.0-6	One duplex receptacle with weatherproof cover and Ground Fault Interrupter (GFI) located on the curbside rear external wall, accessible from the ground when the shelter is mounted on a prime mover.
7.3.2.2.0 -1.0-7	One outlet receptacle CSA 6-20R, NEMA 12, dedicated circuit 240V AC for the Air Conditioning system.
7.3.2.2.0 -1.0-8	One outlet receptacle CSA 6-20R, NEMA 12, dedicated circuit 240V AC for the fuel fired heater fan.

Para Number	TECHNICAL REQUIREMENTS
7.3.2.2.0-2	The centerline of the interior roadside, curbside and intermediate wall mounted receptacles and conduit <u>must</u> be fastened at a height of 41.0 inches above the floor.
7.3.3	7.3.3 DC Power Distribution
7.3.3.0-1	A DC distribution panel, if required IAW contractor design <u>must</u> be a nominal 24V DC panel - 100 amp, have a capacity that provides space for the addition of a minimum 4 circuits for use during Phase 2 - Kitting, and be installed inside the mechanical room.
7.4	7.4 Power Management
7.4.1	7.4.1 General
7.4.1.0-1	The generator <u>must</u> be equipped with a self-adjusting load bank that automatically compensates when shelter power demands increase or decrease, in order to constantly maintain the generator manufacturer's recommended minimum power connected load to prevent "wet stacking."
7.4.1.0-2	The electrical system <u>must</u> be properly installed, grounded and bonded IAW Canadian Electrical Code, CSA C22.1.
7.4.1.0-3	The shelter electrical system <u>must</u> be designed to draw a balanced load to ensure operating efficiency is maximized.
7.4.2	7.4.2 Shelter Dismounted from the Prime Mover.
7.4.2.0-1	When there is no primary power (AC) or secondary power (AC) the shelter <u>must</u> draw DC power from the secondary DC power source, the battery system.
7.4.3	7.4.3 Shelter Mounted on the Prime Mover
7.4.3.0-1	When the shelter is receiving primary power (AC) or secondary power (AC) and the prime mover is powered, the electrical distribution system <u>must</u> be designed so that the DC power from the AC to DC converter/power supply, if installed, takes precedence over the DC power from the prime mover.
7.4.3.0-2	When the shelter is not receiving primary power (AC) or secondary power (AC) and the prime mover is powered, alternate power (DC) <u>must</u> be the source of DC power to the shelter.
7.5	7.5 Lighting
7.5.1	7.5.1 General
7.5.1.0-1	All lighting <u>must</u> be able to work in the range of temperatures and climates described in this document, and provide the intensity levels

Para Number	TECHNICAL REQUIREMENTS
	described in the "Lighting" Section of this technical specification, within 30 seconds of turning the lights on at any temperature within that range.
7.5.1.0-2	Given the recent and rapid technological advances in lighting, the contractor <u>must</u> demonstrate that the proposed lighting system will not become obsolescent during the expected service life of the shelter.
7.5.2	7.5.2 Working area lighting
7.5.2.0-1	Working area lighting <u>must</u> be controlled by a switch located on the interior of the roadside rear wall.
7.5.2.0-2	The working area <u>must</u> have modes of lighting, regardless of power source, selected in the following sequence: Off, Blackout, Red, Normal.
7.5.2.0-2.0-1	When the Blackout mode is selected, the working area lighting <u>must</u> automatically switch from white to red when the working area door handle is activated to open the door, and switches back to white light when the working area door is latched in a closed position.
7.5.2.0-2.0-2	When the red mode is selected, the working area lighting <u>must</u> be red only.
7.5.2.0-2.0-3	When the Normal mode is selected, the working area lighting <u>must</u> be white only.
7.5.2.0-3	The working area lighting intensity <u>must</u> have three intensity levels depending upon the shelter's power source and mode of lighting. The intensity levels as they relate to the factors of power source and mode of lighting are as follows:
7.5.2.0-3.0-1	When the shelter is operating on primary power (AC) or secondary power (AC) the average white lighting intensity level throughout the working area at work desk height, <u>must</u> nominally be "Ordinary Seeing Tasks - Recommended" IAW MIL-STD 1472 section 5.8.2, Table XV.
	The Contractor must measure the lighting levels throughout the working area at work desk height when the shelter is operating on AC (primary or secondary) power and provide a test report outlining the measurements and confirming that they nominally meet those outlined for "Ordinary Seeing Tasks - Recommended" IAW MIL-STD 1472 section 5.8.2, Table XV.
7.5.2.0-3.0-2	When the shelter is operating on secondary power (DC) or alternate power (DC) the average white lighting intensity level throughout the working area at work desk height <u>must</u> nominally be "Service Area General - Recommended" IAW MIL-STD 1472 section 5.8.2, Table XV.
	The Contractor must measure the lighting levels throughout the working area at work desk height when the shelter is operating on DC power (secondary or alternate) and provide a test report outlining the measurements and confirming that they nominally meet those outlined for "Service Area General - Recommended" IAW MIL-STD 1472 section 5.8.2, Table XV.

Para Number	TECHNICAL REQUIREMENTS
7.5.2.0-3.0-3	<p>When the shelter is switched into blackout mode or red mode the average red lighting intensity level throughout the working area at work desk height <u>must</u> nominally be, "Emergency Lighting" IAW MIL-STD 1472 section 5.8.2, Table XV.</p> <p>The Contractor must measure the lighting levels throughout the working area at work desk height when the shelter is switched into blackout (red) mode and provide a test report outlining the measurements and confirming that they nominally meet those outlined for "Emergency Lighting" IAW MIL-STD 1472 section 5.8.2, Table XV.</p>
7.5.3	7.5.3 Mechanical room lighting
7.5.3.0-1	There shall be two sets of independent lighting systems for the Mechanical Room. Each system will be controlled by separate three position switches accessible from each side of the mechanical room.
7.5.3.0-2	The positions of the mechanical room lighting switch in sequence <u>must</u> be off, red, and white.
7.5.3.0-3	<p>The mechanical room lighting intensity <u>must</u> have two intensity levels depending upon the shelter's power source and mode of lighting. The intensity levels as they relate to the factors of power source and mode of lighting are as follows:</p>
7.5.3.0-3.0-1	<p>When white is selected, the average white lighting intensity level in the mechanical room at work desk height <u>must</u> nominally be "Service Area General - Recommended" IAW MIL-STD 1472 section 5.8.2, Table XV.</p> <p>The Contractor must measure the lighting levels throughout the mechanical room at work desk height when white light is selected and provide a test report outlining the measurements and confirming that they nominally meet those outlined for "Service Area General - Recommended" IAW MIL-STD 1472 section 5.8.2, Table XV.</p>
7.5.3.0-3.0-2	When red is selected, the average red lighting intensity level in the mechanical room <u>must</u> nominally be, "Emergency Lighting" IAW MIL-STD 1472 section 5.8.2 Table XV.
7.5.3.0-4	<p>The Contractor must measure the lighting levels throughout the mechanical room at work desk height when red light is selected and provide a test report outlining the measurements and confirming that they nominally meet those outlined for "Emergency Lighting" IAW MIL-STD 1472 section 5.8.2, Table XV.</p> <p>The mechanical room three position light switch <u>must</u> have an automatic timer such that once the switch is activated, the timer will turn off the lights after 60 min.</p>
7.6	7.6 Battery System - Secondary Power Source (DC)
7.6.1	7.6.1 Battery System - Shelter

Para Number	TECHNICAL REQUIREMENTS
7.6.1-1	The battery system in the shelter, located in the mechanical room <u>must</u> provide power to start the generator and is the secondary power source (DC) for the shelter.
7.6.1-2	The battery system <u>must</u> be recharged while the shelter is receiving power from each of the other specified power sources.
7.6.1-3	The shelter battery system <u>must</u> , when required, provide immediate "Emergency Power" capability for lighting in the working area and the mechanical room for a minimum of 60 minutes when the temperature inside the shelter is 0°C, and then be capable of providing sufficient power to start the generator.
7.6.1-4	<p>The Contractor must test the battery system to confirm that it can provide lighting in the working area and mechanical room for a minimum of 60 minutes when the temperature inside the shelter is 0°C and then be capable of starting the generator. The Contractor must provide a test report outlining the test methodology, the test results and confirming that the requirement has been met.</p> <p>The shelter battery system <u>must</u> be capable of providing Emergency Power, in accordance with the scenario above, for a minimum of 25 cycles with 2 hours between "Emergency Power" situations to allow for battery recharging by the integral shelter system.</p> <p>The Contractor must test the battery system to confirm that the system is capable of providing Emergency Power (as defined in section 7.6.1-3) for a minimum of 25 cycles with 2 hours between Emergency Power situations to allow for battery recharging by the integral shelter system. The Contractor must provide a test report outlining the test methodology, the test results and show how they confirm that the battery system meets the requirement of sections 7.6.1-3 and 7.6.1-4.</p> <p>The shelter battery system <u>must</u> incorporate a battery volt meter on the Working Area Control Panel.</p> <p>The shelter battery system <u>must</u> incorporate a master battery disconnect switch on the power box stand, next to the batteries.</p>
7.6.2	7.6.2 Not Used
7.7	7.7 Battery Maintenance System
7.7.0-1	The shelter <u>must</u> have a contractor provided and installed Mil-Spec 24 volt pulse solar charger (NSN 6130-01-487-0035) in order to assist with shelter battery maintenance and life extension
7.7.0-2	The location for the Battery Maintenance System's solar panel <u>must</u> be proposed by the contractor to maximize exposure to sunlight when the shelters are attached to a Container Handling Unit (CHU) and when stacked.
8	8 Power Generation
8.1	8.1 General
8.1.0-1	The shelter's primary power source (AC) <u>must</u> be a generator certified by the CSA or an accredited organization approved by the CSA.

Para Number	TECHNICAL REQUIREMENTS
8.1.0-2	The generator must provide sufficient power to operate, at the same time, the shelter's complete electrical system(s).
8.1.0-3	<p>The generator must sustain a minimum additional power availability of 5 kw when operating under the following conditions:</p> <ul style="list-style-type: none"> a. Using JP-8 as the fuel; b. At altitudes ranging from sea level to 4000 ft; c. In an ambient temperature of 35 degrees Celsius, and e. With the electrical system(s) in the shelter operating, including lights, and the HVAC system maintaining the internal working area climate as specified herein. <p>This additional power requirement is to ensure that there is sufficient power capacity to meet the power demands of the equipment that will be installed by the Users.</p>
8.1.0-4	<p>The generator must be rated for a prime power application IAW ISO 8528-1.</p> <p>The Contractor must test the generator under the conditions outlined in paragraph number 8.1.0-3 at both nominal sea level and an altitude of 4000 ft to confirm that the generator is rated for a prime power application IAW ISO 8528-1. The Contractor must produce a test report outlining the methodology used for the test, the test results and confirming that the generator is rated as specified.</p>
8.1.0-5	The generator must conform to the guidelines of ISO 8528-7 and ISO 3046.
8.1.0-6	The generator must be capable of delivering single phase 120/240 VAC, 60 hertz at a maximum speed of 1800 rpm.
8.1.0-7	The generator must have a digital voltage display, and Automatic Voltage Regulator (AVR) with a no-load-to-full-load fluctuation of not more than +/- 2%, as well as a digital frequency indicator, frequency regulator with a tolerance of +/- 0.5% and an electrical actuator.
8.1.0-8	The generator must be installed IAW OEM instructions.
8.1.0-9	The generator must be able to start within 30 min, after being cold soaked at -40°C for twenty-four hours, without using any aid that is external to the shelter system.
	The Contractor must test the generator to confirm that it can start (without external aids) within 30 minutes after being cold soaked at -40°C for 24 hours. The Contractor must provide a test report outlining the test methodology and with test results that confirm that the generator has met this requirement.
8.1.0-10	The generator must also have an electric coolant heater.
8.1.0-11	The installed generator must have accessible fuel filter, oil filter, air filter, oil and radiator draining points, such that there are no physical obstructions to these areas when mechanical room side access doors are open.
8.1.0-12	The installed generator must have a method of draining fuel, radiator fluid, and oil via flexible piping that allows for collection outside the mechanical room to facilitate generator maintenance.
8.1.0-13	The generator must have an engine coolant overflow reservoir.

Para Number	TECHNICAL REQUIREMENTS
8.2	8.2 Control Panels
8.2.0-1	The shelter control panel displays, controls, and instruction labels <u>must</u> be visible and comprehensible in all lighting conditions specified herein.
8.2.1	8.2.1 Working Area Generator Control Panel
8.2.1.0-1	The working area generator control panel <u>must</u> be located in the working area on the intermediate wall.
8.2.1.0-2	The working area control panel <u>must</u> have an emergency shut off switch, which when activated, shuts down the generator if it is running, and any external AC source of electrical power specified.
8.2.1.0-3	The control panel <u>must</u> have a gauge that accurately indicates the shelter's fuel level.
8.2.2	8.2.2 Mechanical Room Generator Control Panel
8.2.2.0-1	The mechanical room generator control panel <u>must</u> have an emergency shut off switch such that when the emergency shut off is activated, the generator shuts down, and power to the generator control panel is shut off.
8.2.2.0-2	The generator control panel <u>must</u> have as a minimum the following standard safety features and fault code display: over voltage, over temperature, over speed, over load, low oil pressure shut down.
8.2.2.0-3	The generator <u>must</u> have a nominal 24 V DC power source for starting that is compatible with a slave system in compliance with STANAG 4074.
8.2.2.0-4	The generator <u>must</u> have only one starting switch that does not use a key and is located on the mechanical room generator control panel.
8.3	8.3 Ground Electrode
8.3.0-1	The mechanical room <u>must</u> be equipped with a grounding terminal and grounding electrode to provide safe electrical grounding and bonding of the equipment in accordance with CSA.
8.3.0-3	The grounding electrode <u>must</u> be a galvanized steel plate nominally 10" wide by 16" long by 0.25" thick c/w #4 AWG welding wire (green) IAW CSA C22.2 NO 96, 362 inches in length.
8.3.0-4	The grounding electrode <u>must</u> be able to be installed in, and extracted from, solid ground and frozen ground repeatedly without deteriorating, bending, warping, delaminating, or loss of conductivity.
8.3.0-5	The grounding terminal <u>must</u> be recessed external to the mechanical room such that the mechanical room equipment can operate with all doors closed.
8.3.0-6	The shelter <u>must</u> remain grounded whether the generator is installed or not.

Para Number	TECHNICAL REQUIREMENTS
9	9 HVAC
9.1	9.1 General
9.1.0-1	The HVAC system shall be installed in a sealed plenum in the Mechanical Room and must consist of two (2) 14,000 BTU air conditioning units each with 2kW of electrical heat in them. Ducting must be provided to blow conditioned air into the working area and draw return air back into the mechanical room. The HVAC plenum shall include a duct that can draw in exterior fresh air.
9.1.0-2	The HVAC controls <u>must</u> be in the working area, co-located with the working area generator control panel.
9.1.0-4	All air intake openings <u>must</u> be fitted with reusable filters that prevent sand from entering the shelter, ensure that air intake is sufficient for the shelter to operate, are cleanable with water and are of a common size and make that allow for easy replacement of filters if a new particle filtration size is required in order to adapt to a different environment.
9.1.0-5	Air duct vents in the working area <u>must</u> be adjustable for direction and flow rate.
9.1.0-6	The HVAC system <u>must</u> have a fan only selector switch to provide ventilation.
9.1.0-7	The HVAC system <u>must</u> have a control that allows for selection of a closed-loop and an open-loop air system that brings in new air.
9.1.0-8	The HVAC system <u>must</u> include in any ventilation ducting that passes through the intermediate wall, an appropriate fire damper system that is installed according to the OEM instructions.
9.1.0-9	The HVAC system ducting <u>must</u> have access points from both the working area and mechanical room that permit the inside of all the ducting to be accessed for cleaning.
9.2	9.2 Air Quality, Air Intake and Exhaust
9.2.0-1	While the generator and fuel fired heater are running, and the shelter is operating as an open loop system, the indoor air quality of the working area of the shelter <u>must</u> comply with indoor air quality standards IAW the "Canadian Requirements" of ASHRAE Standard 62 "Ventilation for Acceptable Indoor Air Quality."
9.2.0-2	The shelter <u>must not</u> intake air, nor vent exhaust through the front wall or the front wall maintenance doors.
9.3	9.3 Fuel Fired Heater
9.3.0-1	The shelter shall include a fuel fired heater, with a nominal heat output of 5kW, which <u>must</u> draw its fuel from the same fuel tank as the generator.
9.3.0-2	The fuel fired heater <u>must</u> be able to start within 5 minutes after the generator starts, after being cold soaked at -40°C for 24 hours without aid external to the shelter system.
	The Contractor must test the fuel fired heater system to confirm that it is able to start (without aid external to the shelter system) within

Para Number	TECHNICAL REQUIREMENTS
	5 minutes of the generator starting after being cold soaked at -40°C for 24 hours. The Contractor must provide a test report outlining the test methodology and with test results that confirm that the fuel fired heater has met this requirement.
9.3.0-3	Fuel fired diesel heater must operate from AC and DC power.
9.3.0-4	The fuel fired heater shall be located in the mechanical room and shall draw its supply air from the plenum that houses the HVAC unit (see section 9). The fuel fired heater must supply air into the working area through a dedicated duct that conforms to section 9.1.0-8.
9.4	9.4 Air Conditioning
9.4.0-1	The refrigerant provided shall respect the Montreal Protocol and shall not be planned for production cessation prior to the end of the expected service life of the Shelters.
9.4.0-2	Any condensate from the air conditioning system <u>must</u> be routed to the exterior of the shelter.
10	10 Not Used
11	11 Labels and Identification Plates
11.1	11.1 Coding and Marking
11.1.0-1	Each shelter <u>must</u> be properly marked IAW the methods described in reference ISO 6346. The Owner Code and Serial number (BIC Code) will be provided as Government Furnished Information.
11.2	11.2 Consolidated Data Plate
11.2.0-1	<p>The shelter's information <u>must</u> be consolidated on a data plate that is permanently affixed to the shelter and contains as a minimum the following information IAW MIL-HDBK-138, Section 4.5.11:</p> <ul style="list-style-type: none"> - Transport International des Routiers (TIR) approval and associated information - Timber Treatment (if applicable) - Owner's information - Manufacturer's information plate - CSC Safety Approval Plate - BIC number (to be provided as GFI) - NSN number (to be provided as GFI)

Para Number	TECHNICAL REQUIREMENTS
11.2.0-2	The consolidated data plate <u>must</u> be manufactured and affixed to the shelter IAW A-A-50271.
11.3	11.3 Warning and Instruction Labels
11.3.0-1	The shelter <u>must</u> be equipped with warning or precautionary markings using graphic symbols wherever possible to protect personnel and equipment.
11.3.0-2	Warning labels, instruction labels, and decals <u>must</u> be made IAW A-A-50271, and be bilingual, English and French.
11.4	11.4 Marine Surveyor's Certificate
11.4.0-1	The contractor <u>must</u> be responsible to provide with each shelter a Marine Surveyor's Certificate that, in addition to other mandatory information, clearly indicates the name of the manufacturing company and the shelter inspector's name as well as applicable Bureau International des Containers et du Transport Intermodal Code (BIC Code). The BIC Code will be provided as Government Furnished Information.
12	12 Not Used
13	13 Maintainability
13.0-1	The shelter <u>must</u> be designed and constructed to provide ease of maintenance with a minimum of special tools, equipment and skills.
13.0-2	The generator, the air conditioning system, the fuel fired heater unit, and batteries <u>must</u> all be able to be removed and replaced, in less than four hours each, by two qualified Canadian Forces technicians with a standard Canadian Army MSVS mobile repair team (MRT) tool kit.
13.0-3	All major equipment in the mechanical room <u>must</u> be positioned such that their appropriate lifting points are accessible from the front doors by appropriate heavy lift equipment (Crane, forklift) to ease the removal process.
13.0-4	Shelter operator daily preventive maintenance tasks <u>must</u> be able to be performed in no more than 15 minutes by one person using onboard tools while the shelter is mounted on a prime mover and dismounted. Daily preventive maintenance is defined as those tasks required to be conducted daily to keep the shelter in good working order, to ensure shelter operation remains safe to personnel, and to ensure any OEM warranties are not made invalid.
13.0-5	Routine shelter preventive maintenance tasks <u>must not</u> exceed once every 300 hours of operation or twice a year, whichever occurs first. Routine shelter preventive maintenance tasks <u>must not</u> require more than 1.5 person hours.
14	14 Health and Safety
14.0-1	The design of the shelter <u>must</u> comply with all applicable ULC, CSA and NFPA standards for components and ancillaries installed in the

Para Number	TECHNICAL REQUIREMENTS
15	shelter.
15.0-1	15 Technical Publications
15.1	The Contractor must prepare and deliver Technical Publications including Operator Manual, Repair Manual and Illustrated Parts Manual
15.1.0-1	15.1 Operator Manual
	FORMAT
	<p>15.1.1 The Operator Manual shall contain all the essential information required to describe the safe and correct operative procedures associated to the TIC3 Air Shelter. The Operator Manuals shall be delivered as follows:</p> <p>15.1.2 Paper publications shall be prepared in loose-leaf form. The size of the publications shall be five (5) inch by eight (8) inch. Operator Manuals shall be furnished in flexible plastic binders and paper shall be white with good strength characteristic;</p> <p>15.1.3 Any hazard or danger associated with any safety or precautionary measure to be observed shall be brought to the attention of all personnel concerned. All Warnings, cautions and notes shall be presented Symbolic, color and symbolic and inserted in the appropriate place in the manual;</p> <p>15.1.4 The bilingual publications shall be issued in the side-by-side two (2) column format;</p> <p>15.1.5 The National Defence Identification Number (NDID) provided to the Contractor by DND, shall be placed on the first page of the publication (e.g., cover, title page); and</p> <p>15.1.6 Operator Manuals are to be supplied with covers. Preferred qualities for the cover is as follows:</p> <p>15.1.6.1 They should remain pliable over a wide range of ambient temperatures (+30°C to -30°C);</p> <p>15.1.6.2 Pages should not adhere to the cover; and</p> <p>15.1.6.3 Covers should be tear and soil resistant (vinyl type of material is desired).</p> <p>15.1.6.4 Operating Under Normal Conditions;</p> <p>15.1.6.5 Operating Under Unusual Conditions;</p> <p>15.1.6.6 Emergency Operation;</p> <p>15.1.6.7 Operation of Ancillary Equipment;</p> <p>15.1.6.8 Operator Maintenance;</p>

Para Number	TECHNICAL REQUIREMENTS
	<p>15.1.6.9 Any post-shut-down actions or precautions;</p> <p>15.1.6.10 Preventive Maintenance at the Operator Level; and</p> <p>15.1.6.11 Appropriate Environmental Health and Safety (EHS) warnings and instructions in direct relation of the EHS risks presented in the contents.</p>
15.2	15.2 Repair Manual (MN)
15.2.0-1	<p>CONTENT AND FORMAT</p> <p>15.2.1 The Repair Manual shall contain all the necessary information to permit troubleshooting and testing, adjustments, repairs, removals, disassemblies, assemblies and installations of units, assemblies and systems. The Repair Manual shall provide essential descriptive, and maintenance information on all components, installations, and group of equipment and systems IAW the Maintenance Concept.</p> <p>15.2.2 It shall incorporate appropriate Environmental Health and Safety (EHS) warnings and instructions in direct relation of the EHS risks presented in the contents.</p> <p>15.2.3 The text shall be amplified by comprehensive systems, installation or component illustrations and schematics.</p> <p>15.2.4 The Contractor shall create a PDF from the Electronic Native File, which matches the printed publications format and layout. Links, bookmarks and thumbnails are to be included in the PDF file. Any references made to a specific paragraph, figure or appendix etc must be appropriately linked.</p> <p>15.2.5 Viewing the PDF: pages, regardless of size, containing text or illustrations in landscape, shall be rotated for electronic viewing and reading in landscape.</p>
15.3	15.3 Illustrated Parts Manual
15.3.0-1	<p>CONTENT AND FORMAT</p> <p>15.3.1 The Illustrated Parts Manual for the TIC3 Air Shelter shall contain all the necessary information to positively identify all parts of the TIC3 Air Shelter, which may be procured.</p> <p>15.3.2 The content shall be IAW D-01-100-207/SF-002, Preparation of Interim Illustrated Parts Manuals for Land Equipments, 1996-07-12.</p> <p>15.3.3 The Parts Manual shall provide a pictorial view of the equipment supported by descriptive data. The Provisioning Parts Breakdown (PPB) provides a top down breakdown of the equipment in the configuration in which it is being procured. This</p>

Para Number	TECHNICAL REQUIREMENTS
	<p>breakdown is accomplished by listing all parts included in the end item in a lateral and descending family tree/generation breakdown. In this breakdown, all assemblies, sub-assemblies and parts are listed in relation to the next higher assembly.</p> <p>15.3.4 The electronic format for illustrations shall be PDF, CGM, or DWG.</p>

Section 3

Baseline Product – Threaded Insert Pattern

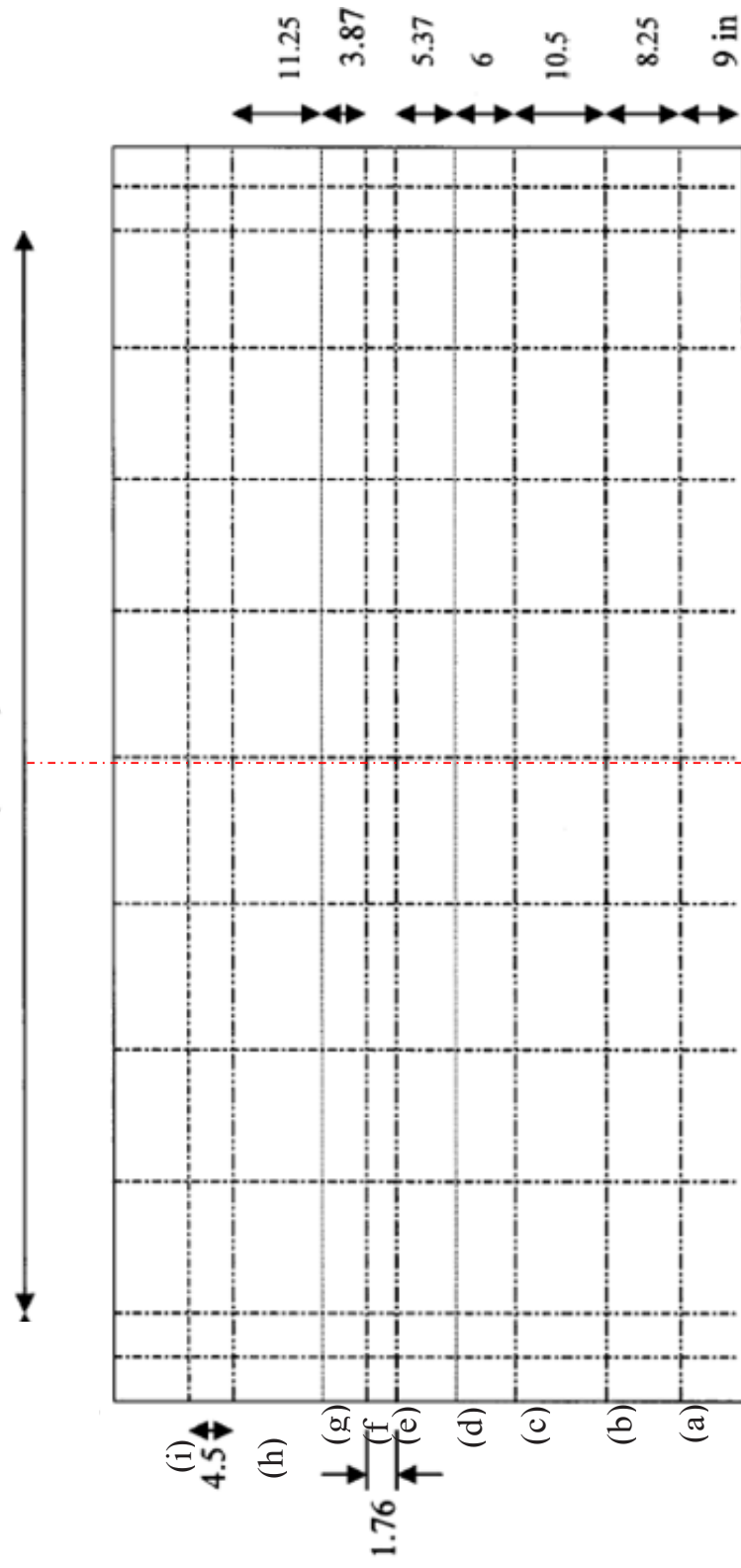
The intent of this Appendix is to provide the location of the threaded inserts on the walls of the shelters.

The location of the threaded inserts will ensure the users have the capability to mount equipment in the shelter.

The location of a threaded insert is indicated by the intersection of a vertical line and a horizontal line. The specification for threaded inserts are given in the Shelter specification.

The threaded inserts shall be evenly spaced about the center line. Spacing between inserts must not exceed 22 inches

Threaded Insert Pattern – Curb and Road Side Wall

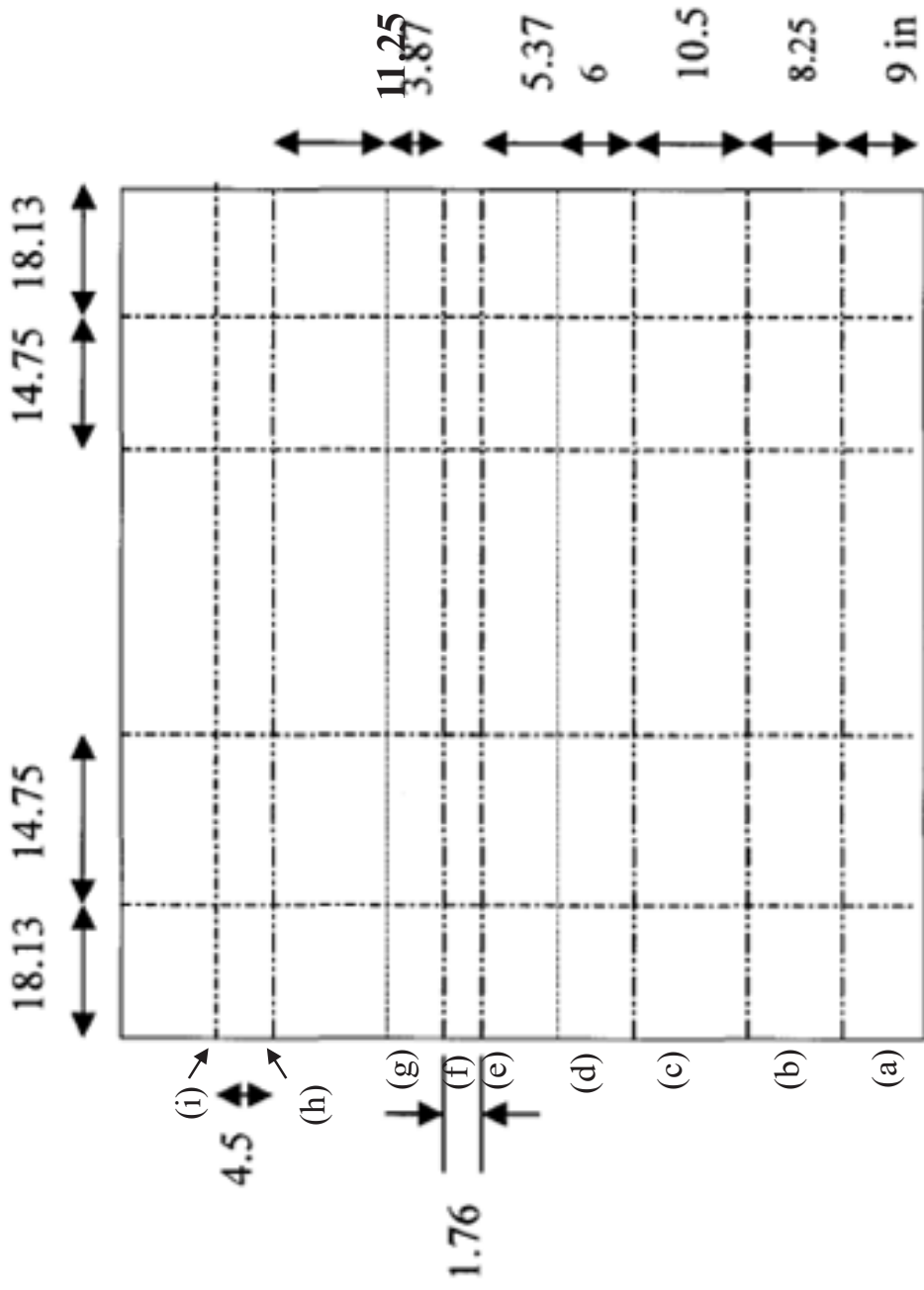


Threaded inserts evenly spaced about the vertical center line. Spacing between inserts must not exceed 22 inches

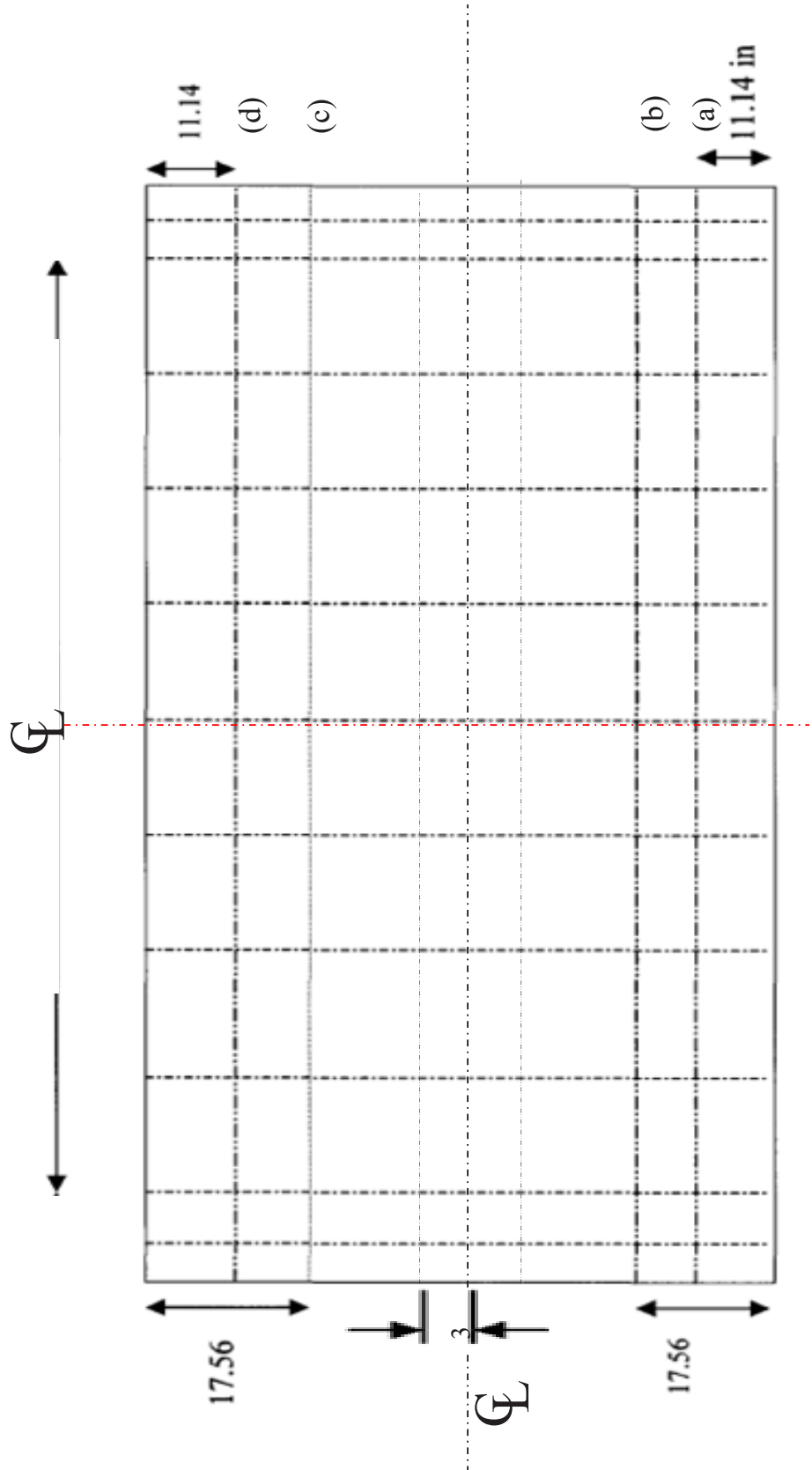
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All dimensions are in inches

Threaded Insert Pattern-Intermediate Wall



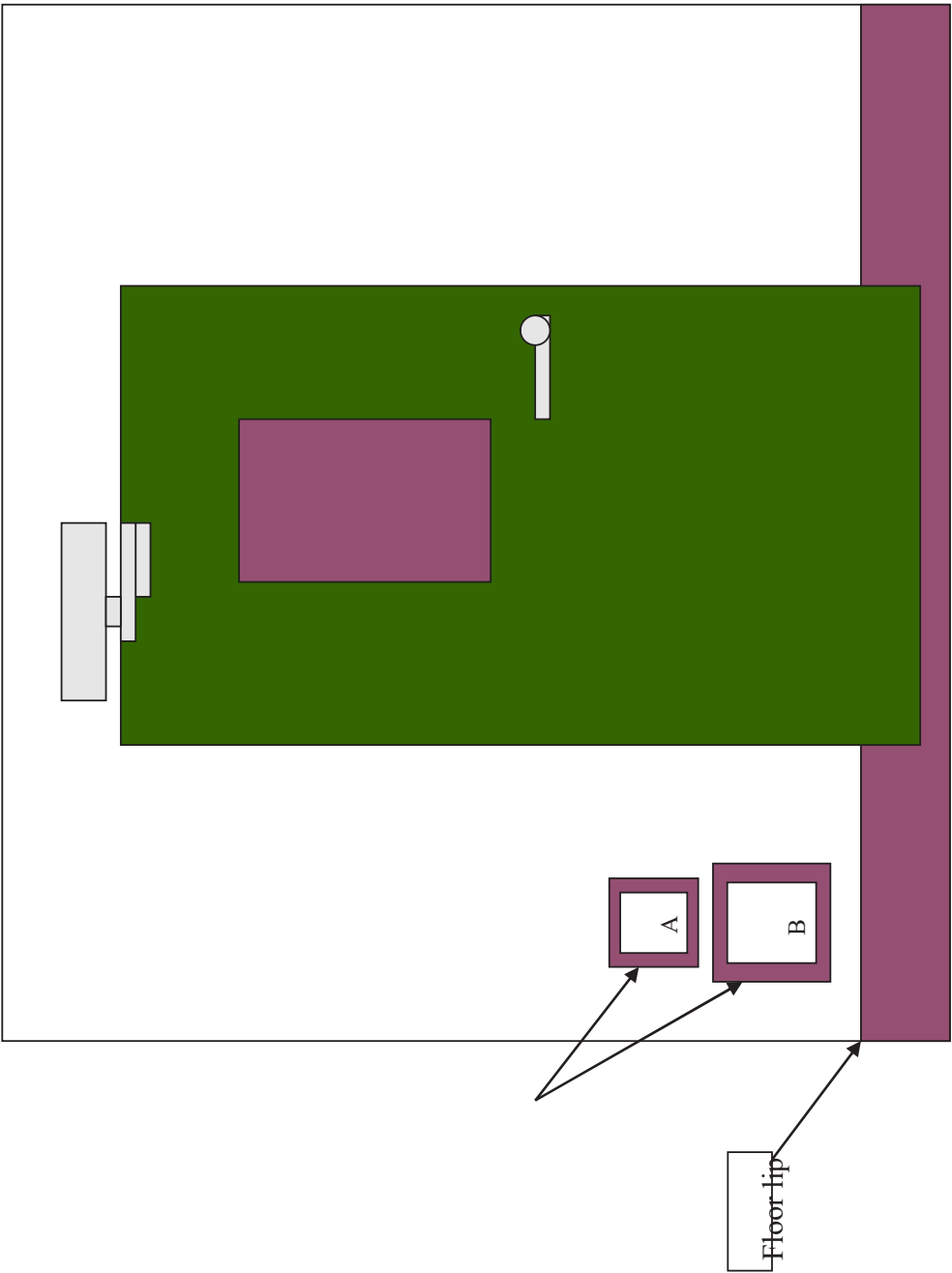
Threaded Insert Pattern-Ceiling



All dimensions are in inches

Passthrough Locations

CONCEPTUAL INTERIOR REAR WALL VIP LAYOUT

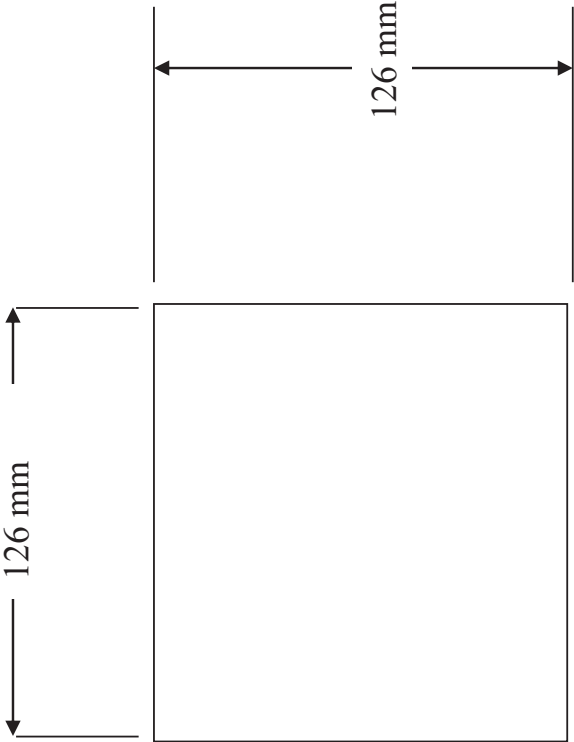


Note: View from interior of shelter

REAR WALL VIP PASSTHROUGH DIMENSIONS

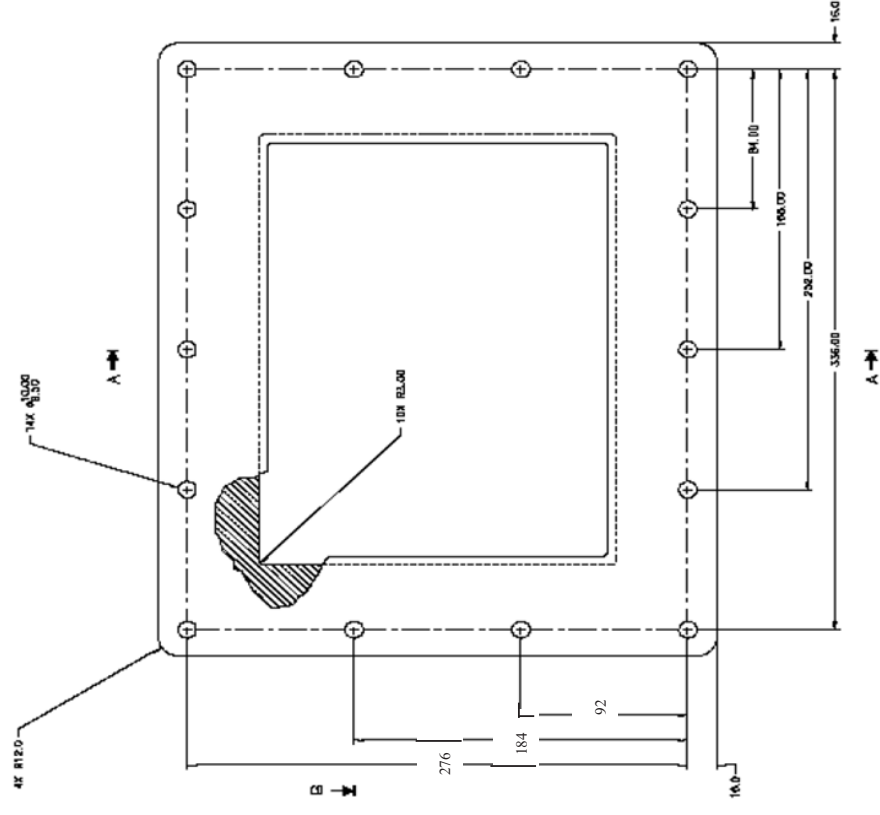
Passthrough A

Note: Dimensions are nominal

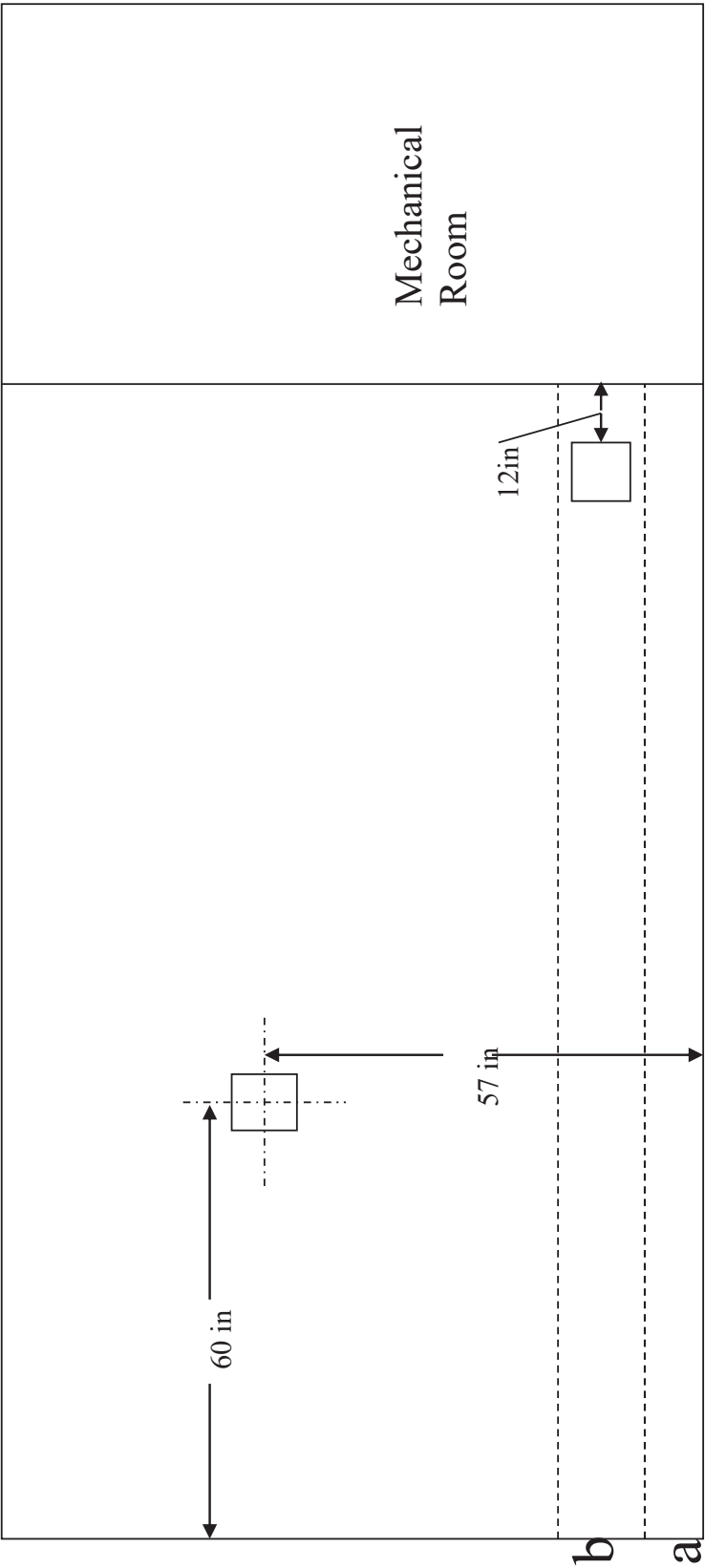


REAR WALL VIP PASSTHROUGH BOLT PATTERN DIMENSIONS

Passthrough B

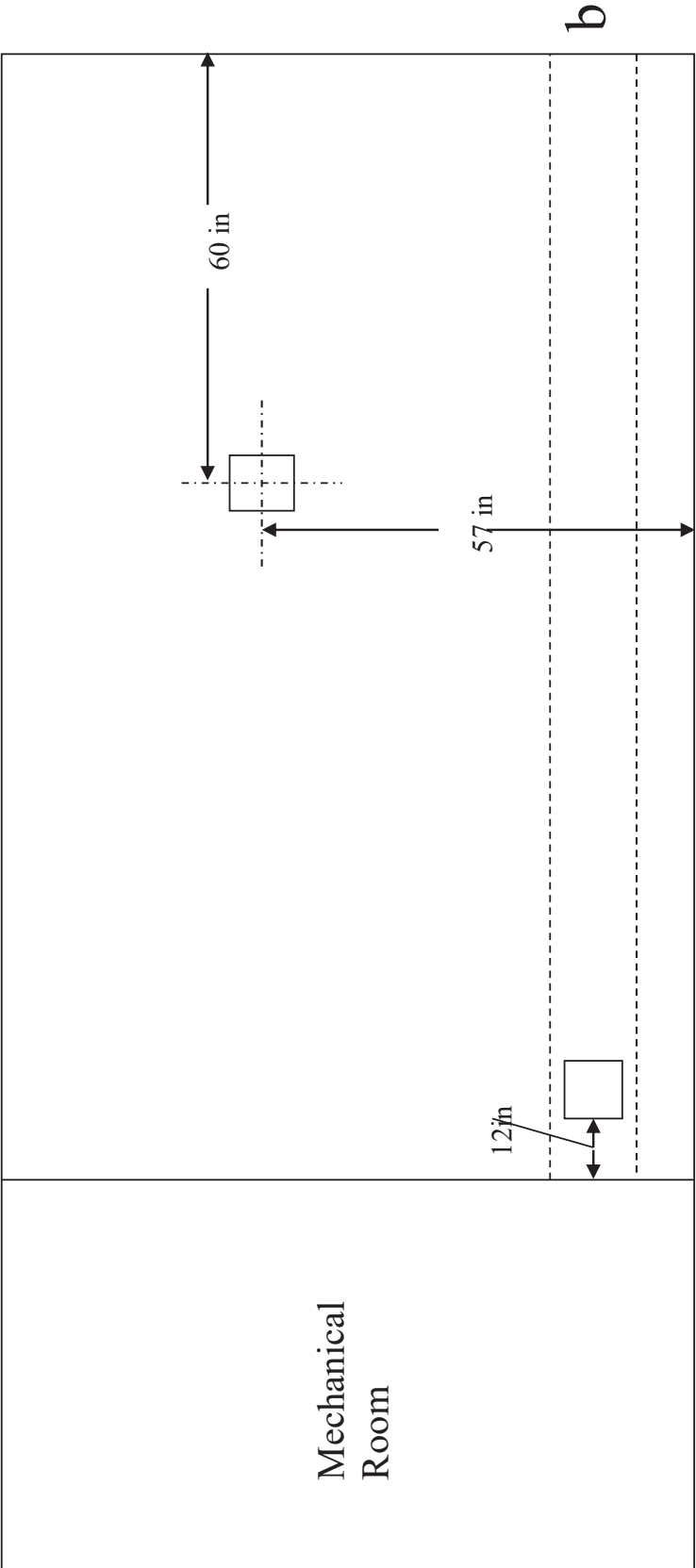


CURB-SIDE WALL PASSTHROUGH LOCATIONS



Note: All dimensions are nominal

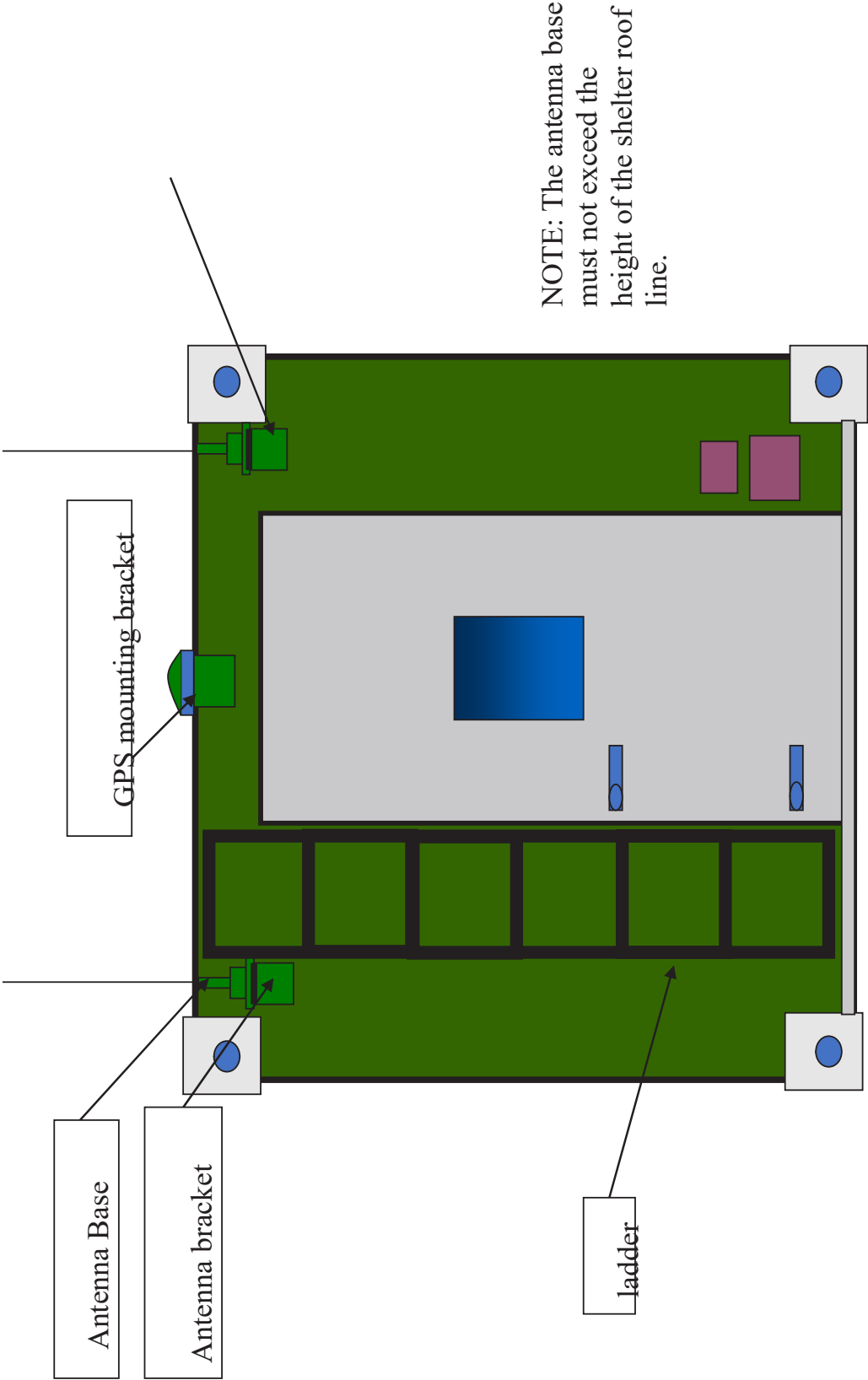
ROAD-SIDE WALL PASSTHROUGH LOCATIONS



Note: All dimensions are nominal

Antenna and GPS Mounting Locations

CONCEPTUAL LAYOUT FOR GPS AND ANTENNA MOUNTS



ANNEX B

Basis of Payment

W8475-235521

1. Initial Equipment Delivery

The Contractor shall be paid, Firm Fixed Prices (FFP) (DDP included – Incoterms 2020) as shown in the table below once delivery of the initial systems has been completed and the system has been deemed qualified as outlined in Annex A – Statement of Work.

Line item	Description	Unit Price	Qty	Extended Price
1	TDL GEP Shelter, IAW section 5, including all ancillary hardware required for installation and operation.		1	
a			Total:	

2. Equipment Delivery

The Contractor shall be paid, Firm Fixed Prices (FFP) (DDP included – Incoterms 2020) as shown in the table below.

Line item	Description	Unit Price	Qty	Extended Price
2	TDL GEP Shelter, IAW section 5, including all ancillary hardware required for installation and operation.		15	
b			Total:	

3. Optional Equipment

The Contractor shall be paid, Firm Fixed Prices (FFP) (DDP included – Incoterms 2020) as shown in the table below.

Line item	Description	Unit Price	Qty	Extended Price
3	TDL GEP Shelter, IAW section 5, including all ancillary hardware required for installation and operation.		4	
c			Total:	

4. Training

The Contractor shall be paid, Firm Fixed Unit Prices (FFSP) as shown in the table below.

Line item	Item	Unit Price	Qty	Extended Price
4	Maintainer and operator 'Train the trainer' Courses		2	
d			Total:	

5. Documentation

The Contractor shall be paid, Firm Fixed Unit Prices (FFSP) as shown in the table below.

Description	Unit Price	Qty	Extended Price
Detailed Operating Instructions		1	
Operating Limitations		1	
Emergency Procedure documentation/checklists		1	
Maintenance Procedures		1	
e			Total:

6. Task-based Support

When requested and approved by Canada, the Supplier shall be paid, Firm Fixed Prices (FFP) (DDP included – Incoterms 2020) as shown in the table below for hourly rates associated with integration support (on and off site) for the systems and sub-systems of the TDL GEP shelter.

Project Manager	
Year	Hourly Rate
1	
2	

Engineer	
Year	Hourly Rate
1	
2	

Technician	
Year	Hourly Rate
1	
2	

Technical Writer	
Year	Hourly Rate
1	
2	

Financial Bid

Total	Description			Evaluated Total
a	Initial Equipment Delivery			
b	Equipment Delivery			
c	Optional Equipment			
d	Training			
e	Documentation			
	Task-based support	Average Rate	Estimated Hours	
f	Project Manager		80	
g	Engineer		800	
h	Technician		800	
i	Technical Writer		80	
TOTAL FINANCIAL BID (a + b + c + d + e + f + g + h + i)				

Note 1: Bidder must specify currency used for bid.

Note 2: The 'Average Rate' and 'Estimated Hours' identified above are for the purpose of financial bid evaluation only.

Note 3: The 'Average Rate' is derived from the numerical average of the year 1 and year 2 rates provided in Section 6.

Annex C

TECHNICAL EVALUATION MATRIX

W8475-235521

Statement of Work (SOW) Compliance

Instructions:

a. Compliance Statement. The Bidder is required to state whether their proposed solution is compliant with each requirement.

b. Proof of Compliance (PoC). A compliance statement and references are required for each mandatory requirement.

Bidder's Name:

Statement of Work Mandatory Requirements Compliance Matrix *(Reference to Annex A - Statement of Work)*

Shelter Requirement Number	Compliance Statement	Proof of Compliance (PoC) Reference
3.1	Compliant	
3.2.1.a	Compliant	
3.2.1.b	Compliant	
3.2.1.c	Compliant	
3.2.2.a	Compliant	
3.2.2.b	Compliant	
3.2.2.c	Compliant	
3.2.2.d	Compliant	
3.2.3.a.	Compliant	
3.2.3.b. & 3.2.3.b.i.	Compliant	
3.2.3.b. & 3.2.3.b.ii.	Compliant	
3.2.3.b. & 3.2.3.b.iii.	Compliant	
3.3.1.a.	Compliant	
3.3.1.b. & 3.3.1.b.i	Compliant	
3.3.1.b. & 3.3.1.b.ii	Compliant	
3.3.1.b. & 3.3.1.b.iii	Compliant	
3.3.2.a.	Compliant	
3.3.2.b.	Compliant	
3.3.2.c.	Compliant	
3.3.3.a.	Compliant	
3.3.3.b.	Compliant	
3.3.3.c.	Compliant	

3.4.1. & 3.4.1.a.	Compliant	
3.4.1. & 3.4.1.b.	Compliant	
3.4.1. & 3.4.1.c.	Compliant	
3.4.1. & 3.4.1.d.	Compliant	
3.4.2. & 3.4.2.a.	Compliant	
3.4.2. & 3.4.2.b.	Compliant	
3.4.2. & 3.4.2.c.	Compliant	
3.4.2. & 3.4.2.d.	Compliant	
3.4.3.a.	Compliant	
3.4.3.b.	Compliant	
3.4.3.c.	Compliant	
4.1	Compliant	
4.2 & 4.2.1	Compliant	
4.2 & 4.2.2	Compliant	
4.2 & 4.2.3	Compliant	
4.2 & 4.2.4	Compliant	
5.1	Compliant	

System Performance Specification (SPS) Compliance

Instructions:

a. Compliance Statement. The Bidder is required to state whether their proposed solution is compliant with each requirement.

b. Proof of Compliance (PoC). A compliance statement and references are required for each mandatory

Bidder's Name:

System Performance Specification Mandatory Requirements Compliance Matrix (Reference to Appendix A1 - System Performance Specification)

Shelter Requirement Number (Section 1)	Compliance Statement	Proof of Compliance (PoC) Reference
1.1 & 1.1.1	Compliant	
1.1 & 1.1.2	Compliant	
1.1 & 1.1.3	Compliant	
1.2 & 1.2.1	Compliant	
1.2 & 1.2.2	Compliant	
1.2 & 1.2.3	Compliant	
1.2 & 1.2.4	Compliant	
1.2 & 1.2.5	Compliant	
1.2 & 1.2.6	Compliant	

Rated Requirements Scoring Matrix					
<u>Instructions</u>					
<p>a. <u>Proof of Compliance (PoC) Reference.</u> Bidder must provide a reference to the specific report or section of their bid proposal which supports the bidders claim.</p> <p>b. <u>Performance Specification.</u> Bidder must select from the drop down list the appropriate response to the desirable requirement.</p> <p>c. <u>Maximum Score.</u> The maximum potential score is the value that may be awarded for a non-mandatory performance specification item.</p> <p>d. <u>Bidder's Score.</u> The Score is the value that will be assign during bid evaluation.</p>					
Bidder's Name:					
System Performance Specification Rated Requirements Scoring Matrix (Reference to Appendix A1 - System Performance Specification)					
Shelter Requirement Number	Compliance Reference(s)	Performance Specification	Maximum Score	Bidder's Score	Notes
1.2 & 1.2.7.			12	0	Smart Power Ctl - Power Source Type
1.2 & 1.2.8.			12	0	Smart Power Ctl - Internal Power Src Status
1.4 & 1.4.3			25	0	Automatic fire suppression
1.6 & 1.6.1			18	0	Remote Env. Mon & Ctl - Warning
1.6 & 1.6.2			23	0	Remote Env. Mon & Ctl - HVAC
5.7 & 5.7.1.			5	0	First shelter delivery
5.7 & 5.7.2.			5	0	All shelter deliveries

Total	100	0
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Annex D

W8475-235521

INSTALLATION SITES

Tactical Data Link (TDL) Ground Entry Point (GEP) Shelter

System Number	Site Location (Province)
1	Gander (NL)
2	Greenwood (NS)
3	Shearwater (NS)
4	Montreal (QC)
5	Bagotville (QC)
6	Toronto (ON)
7	North Bay (ON)
8	Trenton (ON)
9	Winnipeg (MB)
10	Cold Lake (AB)
11	Edmonton (AB)
12	Comox (BC)
13	Aldergrove (BC)
14	Goose Bay (NL)
15	Yellowknife (NT)

ANNEX E

FEDERAL CONTRACTORS PROGRAM

W8475-235521

FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY - CERTIFICATION

I, the Bidder, by submitting the present information to the Contracting Authority, certify that the information provided is true as of the date indicated below. The certifications provided to Canada are subject to verification at all times. I understand that Canada will declare a bid non-responsive, or will declare a contractor in default, if a certification is found to be untrue, whether during the bid evaluation period or during the contract period. Canada will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply with any request or requirement imposed by Canada may render the bid non-responsive or constitute a default under the Contract.

For further information on the Federal Contractors Program for Employment Equity visit [Employment and Social Development Canada \(ESDC\)-Labour's](#) website.

Date: _____ (YYYY/MM/DD) (If left blank, the date will be deemed to be the bid solicitation closing date.)

Complete both A and B.

A. Check only one of the following:

- ☐ A1. The Bidder certifies having no work force in Canada.
 - ☐ A2. The Bidder certifies being a public sector employer.
 - ☐ A3. The Bidder certifies being a [federally regulated employer](#) being subject to the [Employment Equity Act](#).
 - ☐ A4. The Bidder certifies having a combined work force in Canada of less than 100 permanent full-time and/or permanent part-time employees.
- A5. The Bidder has a combined workforce in Canada of 100 or more employees; and
- ☐ A5.1. The Bidder certifies already having a valid and current [Agreement to Implement Employment Equity](#) (AIEE) in place with ESDC-Labour.

Annex F

SECURITY REQUIREMENT CHECK LIST

W8475-235521



SECURITY REQUIREMENTS CHECK LIST (SRCL)

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

PART A - CONTRACT INFORMATION / PARTIE A - INFORMATION CONTRACTUELLE

1. Originating Government Department or Organization / Ministère ou organisme gouvernemental d'origine DND		2. Branch or Directorate / Direction générale ou Direction DAEPM	
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 The Tactical Data Link (TDL) Ground Entry Point (GEP) shelter will provide a self-contained, transportable, shelter for TDL equipment for TIC3 Air's LoE2. These shelters will be deployed across various Wings and DND property in Canada.			
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 type="checkbox"/> No Non	<input checked="" 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 checked="" type="checkbox"/> No Non	<input 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 checked="" 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 checked="" 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 : <input type="checkbox"/>		Restricted to: / Limité à : <input type="checkbox"/>	Restricted to: / Limité à : <input type="checkbox"/>
Specify country(ies): / Préciser le(s) pays :		Specify country(ies): / Préciser le(s) pays :	Specify country(ies): / Préciser le(s) pays :
7. c) Level of information / Niveau d'information			
PROTECTED A PROTÉGÉ A <input checked="" 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 ☐ Yes
Non Oui
If Yes, indicate the level of sensitivity:
Dans l'affirmative, indiquer le niveau de sensibilité :
9. Will the supplier require access to extremely sensitive INFOSEC information or assets?
Le fournisseur aura-t-il accès à des renseignements ou à des biens INFOSEC de nature extrêmement délicate? ☒ No ☐ Yes
Non Oui
Short Title(s) of material / Titre(s) abrégé(s) du matériel :
Document Number / Numéro du document :

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

10. a) Personnel security screening level required / Niveau de contrôle de la sécurité du personnel requis

- | | | | |
|---|---|---|--|
| <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 ☒ Yes
Non Oui
If Yes, will unscreened personnel be escorted? On DND premises, unscreened pers. may only
Dans l'affirmative, le personnel en question sera-t-il escorté? access public/reception zones ☒ No ☐ Yes
Non Oui

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

INFORMATION / ASSETS / RENSEIGNEMENTS / BIENS

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

PRODUCTION

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

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

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



Government
of Canada

Gouvernement
du Canada

Contract Number / Numéro du contrat

W8475-235521

Security Classification / Classification de sécurité

UNCLASSIFIED

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

12. a) Is the description of the work contained within this SRCL PROTECTED and/or CLASSIFIED?

La description du travail visé par la présente LVERS est-elle de nature PROTÉGÉE et/ou CLASSIFIÉE?

☒ No
Non

☐ Yes
Oui

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

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

12. b) Will the documentation attached to this SRCL be PROTECTED and/or CLASSIFIED?

La documentation associée à la présente LVERS sera-t-elle PROTÉGÉE et/ou CLASSIFIÉE?

☒ No
Non

☐ Yes
Oui

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

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



PART D - AUTHORIZATION / PARTIE D - AUTORISATION

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

Name (print) - Nom (en lettres moulées)	Title - Titre	Signature
Yusef Akbari	TIC3 Air PM	AKBARI, YUSEF 040 <small>Digitally signed by AKBARI, YUSEF 040 Date: 2023.05.01 09:25:55 -04'00'</small>
Telephone No. - N° de téléphone 343-549-0449	Facsimile No. - N° de télécopieur	E-mail address - Adresse courriel yusef.akbari@forces.gc.ca
Date		

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

Name (print) - Nom (en lettres moulées)	Title - Titre	Signature
Sasa Medjovic	Senior security analyst	
Telephone No. - N° de téléphone 613-996-0286	Facsimile No. - N° de télécopieur	E-mail address - Adresse courriel sasa.medjovic@forces.gc.ca
Date		

15. Are there additional instructions (e.g. Security Guide, Security Classification Guide) attached? Des instructions supplémentaires (p. ex. Guide de sécurité, Guide de classification de la sécurité) sont-elles jointes?	<input checked="" type="checkbox"/> No Non	<input type="checkbox"/> Yes Oui
---	---	-------------------------------------

16. Procurement Officer / Agent d'approvisionnement

Name (print) - Nom (en lettres moulées)	Title - Titre	Signature
Telephone No. - N° de téléphone	Facsimile No. - N° de télécopieur	E-mail address - Adresse courriel
Date		

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

Name (print) - Nom (en lettres moulées)	Title - Titre	Signature
Stephanie Tompkins Contract Security Officer Stephanie.Tompkins@tpsgc-pwgsc.gc.ca		
Facsimile No. - N° de télécopieur	E-mail address - Adresse courriel	Date

Annex G

ELECTRONIC PAYMENT

W8475-235521

ELECTRONIC PAYMENT INSTRUMENTS

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

- ☐ VISA Acquisition Card;
- ☐ MasterCard Acquisition Card;
- ☐ Direct Deposit (Domestic and International);
 - ☐ Electronic Data Interchange (EDI);
 - ☐ Wire Transfer (International Only);
 - ☐ Large Value Transfer System (LVTS) (Over \$25M)

Annex H

DND – TASK AUTHORIZATION

W8475-235521

TASK AUTHORIZATION AUTORISATION DES TÂCHES

All invoices/progress claims must show the reference Contract and Task numbers. Toutes les factures doivent indiquer les numéros du contrat et de la tâche.		Contract no. – N° du contrat <hr/> Task no. – N° de la tâche
Amendment no. – N° de la modification	Increase/Decrease – Augmentation/Réduction	Previous value – Valeur précédente
To – À	<div style="text-align: center;"> TO THE CONTRACTOR <p>You are requested to supply the following services in accordance with the terms of the above reference contract. Only services included in the contract shall be supplied against this task.</p> <p>Please advise the undersigned if the completion date cannot be met. Invoices/progress claims shall be prepared in accordance with the instructions set out in the contract.</p> </div> <div style="text-align: center;"> À L'ENTREPRENEUR <p>Vous êtes prié de fournir les services suivants en conformité des termes du contrat mentionné ci-dessus. Seuls les services mentionnés dans le contrat doivent être fournis à l'appui de cette demande.</p> <p>Prière d'aviser le signataire si la livraison ne peut se faire dans les délais prescrits. Les factures doivent être établies selon les instructions énoncées dans le contrat.</p> </div>	
Delivery location – Expédiez à		
Delivery/Completion date – Date de livraison/d'achèvement		
<div style="display: flex; justify-content: space-between;"> Date for the Department of National Defence pour le ministère de la Défense nationale </div>		
Contract item no. N° d'article du contrat	Services	Cost Prix
	GST/HST TPS/TVH	
	Total	
<p>APPLICABLE ONLY TO PWGSC CONTRACTS: The Contract Authority signature is required when the total value of the DND 626 exceeds the threshold specified in the contract.</p> <p>NE S'APPLIQUE QU'AUX CONTRATS DE TPSGC : La signature de l'autorité contractante est requise lorsque la valeur totale du formulaire DND 626 est supérieure au seuil précisé dans le contrat.</p> <div style="margin-top: 20px;"> <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="width: 40%; border-top: 1px solid black; padding-top: 5px;"> for the Department of Public Works and Government Services pour le ministère des Travaux publics et services gouvernementaux </div> <div style="width: 50%; text-align: right;"> _____ Date </div> </div> </div>		

Instructions for completing DND 626 - Task Authorization

Contract no.

Enter the PWGSC contract number in full.

Task no.

Enter the sequential Task number.

Amendment no.

Enter the amendment number when the original Task is amended to change the scope or the value.

Increase/Decrease

Enter the increase or decrease total dollar amount including taxes.

Previous value

Enter the previous total dollar amount including taxes.

To

Name of the contractor.

Delivery location

Location where the work will be completed, if other than the contractor's location.

Delivery/Completion date

Completion date for the task.

for the Department of National Defence

Signature of the DND person who has delegated **Authority** for signing DND 626 (level of authority based on the dollar value of the task and the equivalent signing authority in the PAM 1.4). **Note:** the person signing in this block ensures that the work is within the scope of the contract, that sufficient funds remain in the contract to cover this task and that the task is affordable within the Project/Unit budget.

Services

Define the requirement briefly (attach the SOW) and identify the cost of the task using the contractor's quote on the level of effort. The Task must use the basis of payment stipulated in the contract. If there are several basis of payment then list here the one(s) that will apply to the task quote (e.g. milestone payments; per diem rates/labour category hourly rates; travel and living rates; firm price/ceiling price, etc.). All the terms and conditions of the contract apply to this Task Authorization and cannot be ignored or amended for this task. Therefore it is not necessary to restate these general contract terms and conditions on the DND 626 Task form.

Cost

The cost of the Task broken out into the individual costed items in **Services**.

GST/HST

The GST/HST cost as appropriate.

Total

The total cost of the task. The contractor may not exceed this amount without the approval of DND indicated on an amended DND 626. The amendment value may not exceed 50% (or the percentage for amendments established in the contract) of the original value of the task authorization. The total cost of a DND 626, including all amendments, may not exceed the funding limit identified in the contract.

Applicable only to PWGSC contracts

This block only applies to those Task Authorization contracts awarded by PWGSC. The contract will include a specified threshold for DND sole approval of the DND 626 and a percentage for DND to approve amendments to the original DND 626. Tasks that will exceed these thresholds must be passed to the PWGSC Contracting Authority for review and signature prior to authorizing the contractor to begin work.

Note:

Work on the task may not commence prior to the date this form is signed by the DA Authority - for tasks within the DND threshold; and by both DND and PWGSC for those tasks over the DND threshold.

Instructions pour compléter le formulaire DND 626 - Autorisation des tâches

N° du contrat

Inscrivez le numéro du contrat de TPSGC en entier.

N° de la tâche

Inscrivez le numéro de tâche séquentiel.

N° de la modification

Inscrivez le numéro de modification lorsque la tâche originale est modifiée pour en changer la portée.

Augmentation/Réduction

Inscrivez le montant total de l'augmentation ou de la diminution, y compris les taxes.

Valeur précédente

Inscrivez le montant total précédent, y compris les taxes.

À

Nom de l'entrepreneur.

Expédiez à

Endroit où le travail sera effectué, si celui-ci diffère du lieu d'affaires de l'entrepreneur.

Date de livraison/d'achèvement

Date d'achèvement de la tâche.

pour le ministère de la Défense nationale

Signature du représentant du MDN auquel on a délégué le **pouvoir d'approbation** en ce qui a trait à la signature du formulaire DND 626 (niveau d'autorité basé sur la valeur de la tâche et le signataire autorisé équivalent mentionné dans le MAA 1.4). **Nota :** la personne qui signe cette attache de signature confirme que les travaux respectent la portée du contrat, que suffisamment de fonds sont prévus au contrat pour couvrir cette tâche et que le budget alloué à l'unité ou pour le projet le permet.

Services

Définissez brièvement le besoin (joignez l'ET) et établissez le coût de la tâche à l'aide de la soumission de l'entrepreneur selon le niveau de difficulté de celle-ci. Les modalités de paiement stipulées dans le contrat s'appliquent à la tâche. Si plusieurs d'entre elles sont prévues, énumérez ici celle/celles qui s'appliquera/ront à la soumission pour la tâche à accomplir (p.ex. acompte fondé sur les étapes franchies; taux quotidien ou taux horaire établi selon la catégorie de main-d'œuvre; frais de déplacement et de séjour; prix fixe ou prix plafond; etc.). Toutes les modalités du contrat s'appliquent à cette autorisation de tâche et ne peuvent être négligées ou modifiées quant à la tâche en question. Il n'est donc pas nécessaire de répéter ces modalités générales afférentes au contrat sur le formulaire DND 626.

Prix

Mentionnez le coût de la tâche en le répartissant selon les frais afférents à chaque item mentionné dans la rubrique **Services**.

TPS/TVH

Mentionnez le montant de la TPS/TVH, s'il y a lieu.

Total

Mentionnez le coût total de la tâche. L'entrepreneur ne peut dépasser ce montant sans l'approbation du MDN, formulaire DND 626 modifié à l'appui. Le coût de la modification ne peut pas être supérieur à 50 p. 100 du montant initial prévu dans l'autorisation de tâche (ou au pourcentage prévu dans le contrat pour les modifications). Le coût total spécifié dans le formulaire DND 626, y compris toutes les modifications, ne peut dépasser le plafond de financement mentionné dans le contrat.

Ne s'applique qu'aux contrats de TPSGC

Le présent paragraphe s'applique uniquement aux autorisations de tâche accordées par TPSGC. On inscrira dans le formulaire DND 626 un plafond précis qui ne pourra être approuvé que par le MDN et un pourcentage selon lequel le MDN pourra approuver des modifications au formulaire DND 626 original. Les tâches dont le coût dépasse ces plafonds doivent être soumises à l'autorité contractante de TPSGC pour examen et signature avant qu'on autorise l'entrepreneur à débiter les travaux.

Nota :

Les travaux ne peuvent commencer avant la date de signature de ce formulaire par le responsable du MDN, pour les tâches dont le coût est inférieur au plafond établi par le MDN, et par le MDN et TPSGC pour les tâches dont le coût dépasse le plafond établi par le MDN.