



**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**

<b>Title - Sujet</b> (SOF) Distinctive Service Uniforms	
<b>Solicitation No. - N° de l'invitation</b> W6399-18KA05/A	<b>Date</b> 2017-09-29
<b>Client Reference No. - N° de référence du client</b> W6399-18KA05	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$PR-760-73503	
<b>File No. - N° de dossier</b> pr760.W6399-18KA05	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2017-11-30</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Standard Time EST
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Richard, Josette	<b>Buyer Id - Id de l'acheteur</b> pr760
<b>Telephone No. - N° de téléphone</b> (613) 462-4128 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>  Specified Herein Précisé dans les présentes	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

**Vendor/Firm Name and Address**

**Raison sociale et adresse du  
fournisseur/de l'entrepreneur**

**Issuing Office - Bureau de distribution**

Clothing and Textiles Division / Division des vêtements et des textiles  
11 Laurier St./ 11, rue Laurier  
6A2, Place du Portage  
Gatineau, Québec K1A 0S5

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

## **TABLE OF CONTENTS**

### **PART 1 - GENERAL INFORMATION**

- 1.1 SECURITY REQUIREMENT
- 1.2 REQUIREMENT
- 1.3 DEBRIEFINGS
- 1.4 TRADE AGREEMENTS

### **PART 2 - BIDDER INSTRUCTIONS**

- 2.1 STANDARD INSTRUCTIONS, CLAUSES AND CONDITIONS
- 2.2 SUBMISSION OF BIDS
- 2.3 ENQUIRIES - BID SOLICITATION
- 2.4 APPLICABLE LAWS
- 2.5 TECHNICAL DATA AND/OR SAMPLE(S)
- 2.6 TECHNICAL DATA
- 2.7 SEALED SAMPLES AND/OR PATTERNS - RETURN TO SENDER
- 2.8 SPECIFICATIONS AND STANDARDS
- 2.9 TRANSPORTATION COSTS INFORMATION

### **PART 3 - BID PREPARATION INSTRUCTIONS**

- 3.1 BID PREPARATION INSTRUCTIONS

### **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

- 4.1 EVALUATION PROCEDURES
- 4.2 BASIS OF SELECTION
- 4.3 CONTRACT FINANCIAL SECURITY
- 4.4 SECURITY DEPOSIT DEFINITION

### **PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION**

- 5.1 CERTIFICATIONS REQUIRED WITH THE BID
- 5.2 CERTIFICATIONS PRECEDENT TO CONTRACT AWARD AND ADDITIONAL INFORMATION

### **PART 6 - RESULTING CONTRACT CLAUSES**

- 6.1 SECURITY REQUIREMENT
- 6.2 REQUIREMENT
- 6.3 STANDARD CLAUSES AND CONDITIONS
- 6.4 REQUISITION ON CONTRACT (ROC)
- 6.5 TERM OF CONTRACT
- 6.6 AUTHORITIES
- 6.7 PAYMENT
- 6.8 PERIODIC USAGE REPORT – CONTRACT WITH REQUISITION ON CONTRACT (ROC)
- 6.9 INVOICING INSTRUCTIONS
- 6.10 CERTIFICATIONS AND ADDITIONAL INFORMATION
- 6.11 APPLICABLE LAWS
- 6.12 PRIORITY OF DOCUMENTS
- 6.13 DEFENCE CONTRACT
- 6.14 SACC MANUAL CLAUSES
- 6.15 MATERIALS: CONTRACTOR'S SUPPLY AND GOVERNMENT SUPPLIED MATERIAL

- 6.16 PROCEDURES FOR DESIGN CHANGE/DEVIATIONS
- 6.17 PLANT CLOSING
- 6.18 PLANT LOCATION
- 6.19 SUBCONTRATOR(S)
- 6.20 ORIGIN OF WORK - DISCLOSURE OF INFORMATION
- 6.21 OVERSHIPMENT
- 6.22 POST CONTRACT AWARD MEETING
- 6.23 PRODUCTION SAMPLES
- 6.24 SEALED SAMPLES AND/OR PATTERNS - RETURN TO SENDER
- 6.25 SPECIFICATIONS AND STANDARDS
- 6.26 FINANCIAL SECURITY

**LIST OF ANNEXES AND APPENDICES:**

- ANNEX "A" STATEMENT OF WORK**
- ANNEX "B1" MANUFACTURING DATA FOR COAT, SOF DISTINCTIVE SERVICE UNIFORM, MULTICAM®**
- ANNEX "B2" MANUFACTURING DATA FOR TROUSERS, SOF DISTINCTIVE SERVICE UNIFORM, MULTICAM®**
- ANNEX "C1" SPECIFICATION – CLOTH, RIPSTOP, 50/50 NYLON COTTON**
- ANNEX "C2" SPECIFICATION – CLOTH, RIPSTOP, LIGHTWEIGHT BREATHABLE NYLON**
- ANNEX "D" BID EVALUATION PROCESS**
- ANNEX "E" BASIS OF PAYMENT**
- ANNEX "F" REQUISITION ON CONTRACT**
- ANNEX "G" PERIODIC USAGE REPORT**
- ANNEX "H" FEDERAL CONTRACTORS PROGRAM FOR EMPLOYEMENT EQUITY**
- ANNEX "I" ELECTRONIC PAYMENT INSTRUMENTS**

## PART 1 - GENERAL INFORMATION

### 1.1 Security Requirement

There is no security requirement associated with this bid solicitation.

### 1.2 Requirement

The "Requirement" is detailed under Annex "A" of the resulting contract clauses.

### 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 Trade Agreements

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

## PART 2 - BIDDER INSTRUCTIONS

### 2.1 Standard Instructions, Clauses and Conditions

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

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](#) (2017/04/27) 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: 180 days

### 2.2 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 on page 1 of the bid solicitation.

### 2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than seven (7) 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.

## 2.4 Applicable Laws

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

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

## 2.5 Technical Data and/or Samples

Technical data and samples may be viewed (by appointment only) at the following offices:

### Public Works & Government Services Canada

Supply Directorate  
6th floor  
1550 ave D'Estimauville  
Quebec, Que. G1J 0C7  
TEL: 418-649-2714  
FAX: 418-648-2209  
Attention: Micheline Naud  
(micheline.naud@tpsgc-pwgsc.gc.ca)

### Public Works & Government Services Canada

Place Bonaventure, South-East Portal  
800 de La Gauchetière Street West  
7th Floor  
Montreal, Quebec H5A 1L6  
TEL: 514-496-3404  
FAX: 514-496-3822  
Attention: Viviane Rouhault  
(viviane.rouhault@tpsgc-pwgsc.gc.ca)

### Public Works & Government Services Canada

Suite 480, 33 City Centre Drive  
Mississauga, Ont. L5B 2N5  
TEL: 905-615-2070  
FAX 905-615-2023  
Attention: Rosy Gupta  
(rosy.gupta@tpsgc-pwgsc.gc.ca)

### Public Works & Government Services Canada

Suite 100, 167 Lombard Avenue  
P.O. Box 1408  
Winnipeg, Manitoba R3C 2Z1  
TEL: 204-983-3774  
FAX: 204-983-7796  
Attention: Bev Laurin (bev.laurin@tpsgc-pwgsc.gc.ca)

### Public Works & Government Services Canada

Telus Plaza North  
10025 Jasper Avenue, 5th Floor  
Edmonton, AB T5J 1S6  
TEL: (780) 497-3517  
FAX: (780) 497-3510  
Attention: Nicole Boucher (wst-pa-edm@tpsgc-pwgsc.gc.ca)

### Public Works & Government Services Canada

Pacific Region, SOSB, Industrial &  
Commercial Products  
219 - 800 Burrard Street  
Vancouver, B.C V6Z 0B9  
TEL: 778-788-0237 (Tamana Makhni) OR  
TEL: 604-658-2799 (Betty Chan)  
FAX: 604-775-7526  
Attention: Tamana Makhni  
(tamana.makhni@tpsgc-pwgsc.gc.ca)  
OR  
Attention: Betty Chan (betty.chan@tpsgc-pwgsc.gc.ca)

**Department of National Defence**

National Defence Headquarters  
Printing Bureau  
45 Sacré-Coeur Blvd.  
Gatineau, Quebec  
K1A 0K2  
ATTN: DSCO 4-6-2-3  
TEL: 819-939-9052 (Back-up number:  
819-939-9058)  
FAX: 819-994-9561

**2.6 Technical Data**

In order to receive Technical Data packages against this solicitation, Bidders must send their request by email to name of [josette.richard@tpsgc-pwgsc.gc.ca](mailto:josette.richard@tpsgc-pwgsc.gc.ca) and provide the following details:

- Company Name
- Complete mailing & physical address (p.o. box numbers not acceptable)
- Area code and telephone number
- Contact name
- E-mail address
- Solicitation Number & Closing Date

It is imperative that the request be done as soon as possible to ensure timely receipt. Notwithstanding Canada must not be held responsible for untimely release of the technical data.

**2.7 Sealed Samples and/or Patterns - Return to Sender**

The sealed samples and/or patterns which may have been sent to you, are to be returned to the sender, if you are the unsuccessful Bidder. The sealed samples and/or patterns are not to be mutilated or cut, and must be returned in the same condition as sent to the Bidder.

**2.8 Specifications and Standards**

**2.8.1 United States Military Specifications and Standards**

The Bidder is responsible for obtaining copies of all United States (US) military specifications and standards which may be applicable to the requirement. These specifications and standards are available commercially, or may be obtained by visiting the US Department of Defense Website, at the following address: [http://assistdocs.com/search/search\\_basic.cfm](http://assistdocs.com/search/search_basic.cfm)

**2.8.2 Canadian General Standards Board (CGSB) - Standards**

A copy of the CGSB Standards referred to in the bid solicitation is available and may be purchased from:

Canadian General Standards Board  
Place du Portage III, 6B1  
11 Laurier Street  
Gatineau, Québec  
Telephone: (819) 956-0425 or 1-800-665-CGSB (Canada only)  
Fax:(819) 956-5740  
E-mail: [ncr.cgsb-ongc@pwgsc-tpsgc.gc.ca](mailto:ncr.cgsb-ongc@pwgsc-tpsgc.gc.ca)  
CGSB Website: <http://www.tpsgc-pwgsc.gc.ca/ongc-cgsb/index-eng.html>

## 2.9 Transportation Costs Information

The Bidder is requested to provide the following information concerning transportation costs for the delivery of the units to destination:

- (a) shipping weight by unit; \_\_\_\_\_
- (b) number of items by unit; \_\_\_\_\_
- (c) cubic measurement by unit; \_\_\_\_\_
- (d) number of units per shipment: \_\_\_\_\_
- (e) name of shipping point; \_\_\_\_\_
- (f) recommended method of shipment and carrier \_\_\_\_\_
- (g) Unit cost per Destination: \$ \_\_\_\_\_
- (h) Total cost \$ \_\_\_\_\_

## PART 3 - BID PREPARATION INSTRUCTIONS

### 3.1 Bid Preparation Instructions

Canada requests that bidders provide their bid in separately bound sections as follows:

- Section I: Technical Bid ( 2 hard copies)
- Section II: Financial Bid ( 1 hard copy)
- Section III: Certifications (1 hard copy)
- Section IV: Additional Information (1 hard copies)

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

Canada requests that Bidders follow the format instructions described below in the preparation 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](http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, Bidders should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.
- 3) Green Initiatives (for PWGSC information only)  
Bidders are requested to provide details of their policies and practices in relation to the following initiatives:
  - environmentally responsible manufacturing;
  - environmentally responsible waste disposal;
  - waste reduction;
  - packaging;
  - re-use strategies;

- recycling.

### **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 (Part 4, Evaluation Procedures, 4.1.1.1 Mandatory Technical Criteria).

### **Section II: Financial Bid**

Bidders must submit their financial bid in accordance with the Basis of Payment.

#### **3.1.1 Electronic Payment of Invoices – Bid**

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete ANNEX "I" - *Electronic Payment Instruments*, to identify which ones are accepted.

If ANNEX "I" - *Electronic Payment Instruments* is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

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

### **Section III: Certifications**

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

### **Section IV: Additional Information**

#### **3.1.3. Origin of Work**

For each line item, bidders must identify the name(s) of the country or countries where the apparel goods are cut (or knit to shape) and sewn, regardless of whether the work is to be performed by the Bidder or one of its subcontractor(s).

The following information must be provided for each location where any of the goods are cut (or knit to shape) or sewn:

Line Item number \_\_\_\_\_

Country: \_\_\_\_\_

(Bidders must add additional lines if there is more than one manufacturer or one country per line item.)

Bidders must immediately inform Canada in writing of any and all changes affecting the information provided under this clause during the entire bid validity period.

## **PART 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.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

#### **4.1.1 Technical Evaluation**

##### **4.1.1.1 Mandatory Technical Criteria**

###### **Pre-Award Sample(s) and Supporting Documentation**

As part of the technical evaluation, to confirm a Bidder's capability of meeting the technical requirements, the pre-award samples and supporting documentation detailed at Annex D must be included with the bid.

The Bidder must ensure that the required pre-award sample are manufactured in accordance with the technical requirement and are fully representative of the bid submitted. Rejection of the pre-award samples will result in the bid being declared non-responsive.

The Bidder must deliver the required pre-award samples and supporting documentation at no charge to Canada and must ensure that they are received with the bid at time and place of bid closing. Failure to submit the required pre-award samples and supporting documentation within the specified time frame will result in the bid being declared non-responsive. The samples submitted by the Bidder will remain the property of Canada.

If one or more supporting documents are not submitted with the bid, the Contracting Authority will inform the bidder in writing and provide the Bidder with two (2) working days from the request to submit the missing supporting documentation. Failure to comply with the request within the specified timeframe will result in the bid being declared non-responsive.

The pre-award samples will be evaluated as per Annex D.

The requirement for a pre-award samples, test results and certificates of compliance will not relieve the successful bidder from submitting samples, test results and certificates of compliance as required by the contract terms or from strictly adhering to the technical requirement of this Request for Proposal and any resultant contract.

Failure to provide sufficient information with the bid to verify compliance with the mandatory technical and experience requirements detailed in Annex D, or to verify the compliance of the fabric to the specified requirements, the bid will be considered non-compliant and will be rejected.

#### **4.1.2 Financial Evaluation**

##### **4.1.2.1 Mandatory Financial Criteria**

- a. The Bidder must submit firm unit prices in Canadian dollars, applicable taxes are excluded, DDP (within 300 kilometres of the National Capital Region) Incoterms 2000, transportation costs included, all applicable Customs Duties and Excise taxes included.

- b. The Bidder must submit firm unit pricing for all items. The Bidder is requested to quote firm unit pricing at no more than two decimal points.

#### 4.1.2.2 Financial Evaluation Methodology

In order to establish the Total Bid Price Value for evaluation purposes only, each of the firm unit prices will be multiplied by the estimated quantity per year as per the Table below. The resultant total for all firm unit prices will be added together to establish the Total Bid Price Value.

The formula is for evaluation purpose only and the estimated quantities in the table below must not be interpreted as a guarantee of actual usage.

#### Estimated Quantities – Special Operations Forces Distinctive Service Uniforms

Item	Description	Material	Year 1	Year 2	Extension		
					Option Year 3	Option Year 4	Option Year 5
1	Coats	Type I (Annex C1)	8000	2640	2760	2880	3000
2	Coats	Type II (Annex C2)	1100	550	575	600	625
3	Coats	Type III (GSM*)	1400	850	875	900	925
4	Trousers	Type I (Annex C1)	8000	2640	2760	2880	3000
5	Trousers	Type II (Annex C2)	1100	550	575	600	625
6	Trousers	Type III (GSM*)	1400	700	725	750	775

\*GSM: Government Supplied Material

#### 4.1.2.3 SACC MANUAL CLAUSE

[A9033T](#) 2012/07/16 Financial Capability

#### 4.2 Basis of Selection

A bid must comply with the requirements of the bid solicitation and meet all mandatory technical evaluation criteria to be declared responsive. The responsive bid with the lowest evaluated bid price will be recommended for award of a contract.

#### 4.3 Contract Financial Security

1. If this bid is accepted, the Bidder may be required to provide contract financial security, after the bid closing date and within 10 calendar days from receipt of a written request from the Contracting Authority.
  - i. a security deposit as defined in clause "Security Deposit Definition" in the amount of up to ten percent (10%) of the contract price.
2. Security deposits in the form of government guaranteed bonds with coupons attached will be accepted only if all coupons that are unmaturing, at the time the security deposit is provided, are attached to the bonds. The Contractor must provide written instructions concerning the action to be taken with respect to coupons that will mature while the bonds are pledged as security, when such coupons are in excess of the security deposit requirement.
3. If Canada does not receive the required financial security within the specified period, Canada may, as its discretion, accept another offer, issue a new bid solicitation, award a contract or reject all the bids.

#### 4.4 Security Deposit Definition

1. "security deposit" means
  - (a) a bill of exchange that is payable to the Receiver General for Canada, and certified by an approved financial institution or drawn by an approved financial institution on itself; or
  - (b) a Government guaranteed bond; or
  - (c) an irrevocable standby letter of credit, or
  - (d) such other security as may be considered appropriate by the Contracting Authority and approved by Treasury Board;
2. "approved financial institution" means
  - (a) any corporation or institution that is a member of the Canadian Payments Association;
  - (b) a corporation that accepts deposits that are insured by the Canada Deposit Insurance Corporation or the "Régie de l'assurance-dépôts du Québec" to the maximum permitted by law;
  - (c) a credit union as defined in paragraph 137(6) the *Income Tax Act*;
  - (d) a corporation that accepts deposits from the public, if repayment of the deposits is guaranteed by Canadian province or territory; or
  - (e) the Canada Post Corporation.
3. "government guaranteed bond" means a bond of the Government of Canada or a bond unconditionally guaranteed as to principal and interest by the Government of Canada that is:
  - (a) payable to bearer;
  - (b) accompanied by a duly executed instrument of transfer of the bond to the Receiver General for Canada in accordance with the *Domestic Bonds of Canada Regulations*;
  - (c) registered in the name of the Receiver General for Canada.
4. "irrevocable standby letter of credit"
  - (a) means any arrangement, however named or described, whereby a financial institution (the "Issuer"), acting at the request and on the instructions of a customer (the "Applicant"), or on its behalf,
    - (i) will make a payment to or to the order of Canada, as the beneficiary;
    - (ii) will accept and pay bills of exchange drawn by Canada;
    - (iii) authorizes another financial institution to effect such payment, or accept and pay such bills of exchange; or
    - (iv) authorizes another financial institution to negotiate, against written demand(s) for payment, provided that the conditions of the letter of credit are complied with.
  - (b) must state the face amount which may be drawn against it;
  - (c) must state its expiry date;
  - (d) must provide for sight payment to the Receiver General for Canada by way of the financial institution's draft against presentation of a written demand for payment signed by the authorized departmental representative identified in the letter of credit by his/her office;
  - (e) must provide that more than one written demand for payment may be presented subject to the sum of those demands not exceeding the face amount of the letter of credit;
  - (f) must provide that it is subject to the International Chamber of Commerce (ICC) Uniform Customs and Practice (UCP) for Documentary Credits, 2007 Revision, ICC Publication No. 600. Pursuant to the ICC UCP, a credit is irrevocable even if there is no indication to that effect; and
  - (g) must be issued (Issuer) or confirmed (Confirmer), in either official language, by a financial institution that is a member of the Canadian Payments Association and is on the letterhead of the Issuer or Confirmer. The format is left to the discretion of the Issuer or Confirmer.

## **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. 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.

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 Additional Certifications Required with the Bid**

##### **5.1.2.1 Canadian Content Certification**

**5.1.2.1.1** SACC Manual Clause [A3050T](#) (2014/11/27) Canadian Content Definition

##### **Rules of Origin - Textiles**

With reference to the Canadian Content Certification clause, item(s) on this solicitation are considered to be Canadian goods if they meet the following definition:

MODIFIED RULE OF ORIGIN FOR TEXTILES: "Textiles and textile articles classified in Chapters 50 to 60 inclusive of the Harmonized System that are woven, knitted or otherwise manufactured from yarns or fibres in Canada, and further processed in Canada by dyeing, finishing, coating or other processes as applicable, will be considered Canadian textiles. Woven fabrics of 100% cotton or of polyester and cotton blends that are dyed and finished in Canada will be considered Canadian."

##### **Rules of Origin - Apparel**

With reference to the Canadian Content Certification clause, apparel goods are considered to be Canadian goods according to the North American Free Trade Agreement Rules of Origin as follows:

Apparel goods classified in Chapters 61 and 62 of the Harmonized System that are both cut (or knit to shape) and sewn in Canada will be considered Canadian goods.

##### **Canadian Content Certification**

This procurement is conditionally limited to Canadian goods.

Subject to the evaluation procedures contained in the bid solicitation, bidders acknowledge that only bids with a certification that the good(s) offered are Canadian goods, as defined in clause A3050T, may be considered.

Failure to provide this certification completed with the bid will result in the good(s) offered being treated as non-Canadian goods.

The Bidder certifies that:

( ) the good(s) offered are Canadian goods as defined in paragraph 1 of clause A3050T.

## 5.2 Certifications Precedent to Contract Award and Additional Information

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

### 5.2.1 Integrity Provisions – Required Documentation

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

### 5.2.2 Federal Contractors Program for Employment Equity - 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](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#)" 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#) (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

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](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#)" 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.

### 5.2.3 Samples and Production Certification

The Bidder certifies that:

( ) the manufacturer that produced the pre-award sample(s) will remain unchanged for the pre-production sample(s) and full production of the contract quantity.

## 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

There is no security requirement applicable to the Contract.

### 6.2 Requirement

The Contractor must provide the items according to the Statement of Work detailed under Annex "A".

### 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

2030 (2016/04/04), General Conditions - Goods (Higher Complexity), apply to and form part of the Contract.

### 6.4 Requisition on Contract (ROC)

- (a) **Purpose of ROC:** Goods to be provided under the Contract on as an-and-when-requested basis will be ordered by Canada using a Requisition on Contract ("ROC").
- (b) **Process for Issuing a ROC:**
  - i. Authorized ROCs against this Contract will be made using a duly completed form identified in Annex F by methods such electronic mail; and
  - ii. A ROC will be prepared by the Procurement Authority and sent to the Contractor;
- (c) **Authority to Issue a ROC:** Any ROC with a value less than or equal to **\$400,000.00** (including Applicable Taxes) may be issued by the Procurement Authority. Any ROC with a value greater than this amount must be issued directly by the Contracting Authority. By providing written notice to the Contractor, the Contracting Authority may suspend the Procurement Authority's authority to issue ROCs at any time;
- (d) **Contents of a ROC:** The ROC must contain the following information, if applicable:
  - i. a ROC number;
  - ii. the details of any financial coding to be used;
  - iii. quantity and description of goods being ordered;
  - iv. the delivery date(s);
  - v. the specific delivery location; and
  - vi. the firm unit price payable to the Contractor;
- (e) **Charges for Goods under a ROC:** The Contractor must not charge Canada anything more than the price set out in the ROC unless Canada has issued a ROC amendment authorizing the increased expenditure. Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work unless they have been approved, in writing, by the Contracting Authority before being incorporated into the Work; and
- (f) **Delivery response time for a ROC:** Delivery ordered through a ROC is required within \_\_\_\_\_ calendar days from receipt of an approved ROC.

## 6.5 Term of Contract

### 6.5.1 Period of Contract

The period for issuing Individual Requisitions on contract (ROC) against this contract is within a period of two (2) years from the date of contract award.

### 6.5.2 Extension of the Contract

The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to three (3) additional one (1) year periods under the same conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions as set out in the Basis of Payment.

Canada may exercise this option at any time by sending a written notice to the Contractor at least 15 calendar days before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced for administrative purposes only, through a contract amendment.

### 6.5.3 Preparation for Delivery

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 as specified in Annex A, Section 2.8 and 2.9.

### 6.5.4 Bulk Shipments

For bulk shipments, all cartons must be shipped on 40" x 48" pallets shrink-wrapped or equivalent with overall height not to exceed 42".

### 6.5.5 Shipping Instructions - Delivery at Destination

1. Goods must be consigned to the destination specified in the Contract and delivered:

(a) Delivered Duty Paid (within 300 km of the National Capital Region) (*exact location to be confirmed on Requisition on Contract*) Incoterms 2000 for shipments from commercial contractor.

### 6.5.6 SACC Manual Clauses

<a href="#">D5510C</a>	2017/08/17	Quality Assurance Authority (DND) - Canadian-based Contractor
<a href="#">D5515C</a>	2010/01/11	Quality Assurance Authority (DND) - Foreign-based and United States Contractor
<a href="#">D5545C</a>	2010/08/16	ISO 9001:2008 - Quality Management Systems - Requirements (QAC C)
<a href="#">D6010C</a>	2007/11/30	Palletization

## 6.6 Authorities

### 6.6.1 Contracting Authority

The Contracting Authority for the Contract is:

**Josette Richard**  
Public Works and Government Services Canada  
Acquisitions Branch

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Commercial and Consumer Products Directorate (CCPD)  
Clothing & Textiles Division  
Place du Portage, Phase III, 6A2  
11 Laurier Street  
Gatineau, Quebec K1A 0S5  
Telephone :613-462-4128 Facsimile: 819-956-5454  
E-mail address: [josette.richard@tpsgc-pwgsc.gc.ca](mailto:josette.richard@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.

#### 6.6.2 Technical Authority

The Technical Authority for this Contract is:

##### **Mailing/Shipping Address**

Department of National Defence  
101 Colonel By Drive  
Ottawa, Ontario  
K1A 0K2  
Attn: \_\_\_\_\_ (to be advised at contract)

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.

#### 6.6.3 Procurement Authority

The Procurement Authority for the Contract is: (to be advised at contract)

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 the implementation of tools and processes required for 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 Work can only be made through a contract amendment issued by the Contracting Authority.

#### 6.6.4 Contractor's Representative

The person responsible for :

##### **General enquiries**

Name: \_\_\_\_\_  
Telephone No.: \_\_\_\_\_  
Facsimile No.: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

##### **Delivery follow-up**

Name: \_\_\_\_\_  
Telephone No.: \_\_\_\_\_

Facsimile No.: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

## 6.7 Payment

### 6.7.1 Basis of Payment – Firm Unit Price(s)

In consideration of the Contractor satisfactorily completing all of its obligations under the Requisition on Contract, the Contractor will be paid firm unit prices, as specified in Annex “E” for a cost of \$ (*amount to be inserted at contract award*). Customs duties are included and Applicable Taxes are extra.

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

### 6.7.2 SACC Manual Clauses

[H1001C](#) 2008/05/12 Multiple Payments

### 6.7.3 Electronic Payment of Invoices – Contract

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):  
(*To be inserted at contract award*)

### 6.7.4 Limitation of Expenditure – Cumulative Total of all Requisition on Contracts

1. Canada's total liability to the Contractor under the Contract for all authorized Requisition on Contracts (ROCs), inclusive of any revisions, must not exceed the sum of (to be filled in at contract award) Customs duties are included and Applicable Taxes are extra.
2. No increase in the total liability of Canada will be authorized or paid to the Contractor unless an increase has been approved, in writing, by the Contracting Authority.
3. The Contractor must notify the Contracting Authority in writing as to the adequacy of this sum:
  - (a) when it is 75 percent committed; or
  - (b) four (4) months before the contract expiry date, whichever comes first;
4. If the notification is for inadequate contract funds, the Contractor must provide to the Contracting Authority, a written estimate for the additional funds required. Provision of such information by the Contractor does not increase Canada's liability.
5. Canada will have no obligation to the Contractor under this clause if Canada terminates the Contract in whole or in part for default.

### 6.7.5 Minimum Limitation of Expenditure

1. “Maximum Contract Value” means the amount specified in the “Limitation of Expenditure” clause set out in the Contract; and “Minimum Contract Value” means \$ (to be filled in at contract award).

2. Canada's obligation under the Contract is to request goods in the amount of the Minimum Contract Value or, at Canada's option, to pay the Contractor at the end of the Contract in accordance with paragraph 3. In consideration of such obligation, the Contractor agrees to stand in readiness throughout the Contract period to supply the goods described in the Contract. Canada's maximum liability for goods supplied under the Contract must not exceed the Maximum Contract Value, unless an increase is authorized in writing by the Contracting Authority.
3. In the event that Canada does not request goods in the amount of the Minimum Contract Value during the period of the Contract, Canada must pay the Contractor the difference between the Minimum Contract Value and the total cost of the goods requested.
4. Canada will have no obligation to the Contractor under this clause if Canada terminates the Contract in whole or in part for default.

## **6.8 Periodic Usage Report – Contract with Requisition on Contract (ROC)**

The Contractor must compile and maintain records on its provision of work to the federal government under authorized Requisition on Contracts issued under the Contract.

The Contractor must provide this data in accordance with the reporting requirements detailed below (see Annex G). If some data is not available, the reason must be indicated. If work is not provided during a given period, the Contractor must still provide a "NIL" report.

The data must be submitted on a quarterly basis to the Contracting Authority and Procurement Authority.

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

### **6.8.1 Reporting Requirement – Details**

A detailed and current record of all authorized work must be kept for each contract with a Requisition on Contract process. This record must contain:

For each authorized ROC:

- (i) the authorized ROC number or ROC revision number(s);
- (ii) a title or a brief description of each authorized ROC;
- (iii) the total estimated cost specified in the authorized ROC of each work, GST or HST extra;
- (iv) the start and completion date for each authorized ROC; and
- (v) the active status of each authorized ROC, as applicable.

For all authorized ROC:

- (i) the amount (GST or HST extra) specified in the contract (as last amended, as applicable) as Canada's total liability to the contractor for all authorized ROCs; and
- (ii) the total amount, GST or HST extra, expended to date against all authorized ROCs.

## **6.9 Invoicing Instructions**

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

2. Invoices must be distributed as follows:
- a) The original and one (1) copy must be forwarded to the following address for certification and payment  
  
National Defence Headquarters  
MGen George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, ON K1A 0K2  
Attn: DLP \_\_\_\_\_  
Email: \_\_\_\_\_ (to be inserted at contract award)
  - b) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.
  - c) One (1) copy must be forwarded to the consignee.

## 6.10 Certifications and Additional Information

### 6.10.1 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.

### 6.10.2 Federal Contractors Program for Employment Equity - Default by the Contractor

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and Employment and Social Development Canada (ESDC)-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "FCP Limited Eligibility to Bid" list. The imposition of such a sanction by ESDC will constitute the Contractor in default as per the terms of the Contract.

### 6.11 Applicable Laws

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

### 6.12 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 [2030](#) (2016/04/04), General Conditions - Goods (Higher Complexity);
- c) Annex "A", Requirement;
- d) Annex "E", Basis of Payment
- e) Annex "B1", "B2", "C1", "C2": Technical Specifications
- f) Annex "F", Requisition on Contract
- g) Annex "G", Periodic usage Report
- h) Drawings;
- i) Sealed Samples and/or Patterns;
- j) the Contractor's bid dated \_\_\_\_\_

**6.13 Defence Contract**

SACC Manual clause [A9006C](#) (2012/07/16) Defence Contract

**6.14 SACC Manual Clauses**

<a href="#">B7010C</a>	2008/05/12	Marking and Labelling
<a href="#">C2800C</a>	2013/01/28	Priority Rating
<a href="#">C2801C</a>	2017/08/17	Priority Rating - Canadian-based Contractors

**6.15 Materials: Contractor's Supply and Government Supplied Material (GSM)**

The Contractor will be responsible for obtaining all materials required in the manufacture of the item(s) specified except those materials specified as being Government-supplied. The delivery stated herein allows the necessary time to obtain such materials.

**6.16 Procedures for Design Change/Deviations**

The Contractor must follow these procedures for any proposed design change/deviation to contract specifications.

The Contractor must complete Part 1 to 12B the Design Change/Deviation form DND 675 and forward one (1) copy to the Technical Authority and one (1) copy to the Contracting Authority.

The Contractor will be authorized to proceed upon receipt of the design change/deviation form signed by the Contracting Authority. A contract amendment will be issued to incorporate the design change/deviation in the Contract.

**6.17 Plant Closing**

The Contractor's plant closing for Christmas and Summer holidays are as follows. During this time there will be no shipments.

FY 2017-2018  
Christmas Holiday FROM \_\_\_\_\_ TO \_\_\_\_\_

FY 2018-2019  
Summer Holiday FROM \_\_\_\_\_ TO \_\_\_\_\_  
Christmas Holiday FROM \_\_\_\_\_ TO \_\_\_\_\_

FY 2019-2020 (extension)  
Summer Holiday FROM \_\_\_\_\_ TO \_\_\_\_\_  
Christmas Holiday FROM \_\_\_\_\_ TO \_\_\_\_\_

FY 2020-2021 (extension)  
Summer Holiday FROM \_\_\_\_\_ TO \_\_\_\_\_  
Christmas Holiday FROM \_\_\_\_\_ TO \_\_\_\_\_

**6.18 Plant Location**

Items will be manufactured at: \_\_\_\_\_

**6.19 Subcontractor(s)**

The following subcontractor(s) will be utilized in the performance of the contract.

Name of Company: \_\_\_\_\_

Location: \_\_\_\_\_

Value of subcontract: \$ \_\_\_\_\_

Nature of subcontracting work performed: \_\_\_\_\_

Subcontractors, other than those listed above, may not be utilized without the written permission of Canada.

#### **6.20 Origin of Work - Disclosure of Information**

1. For each line item, the Contractor must specify the name(s) of all countries where the apparel goods are cut (or knit to shape) or sewn, regardless of whether the work is to be performed by the Contractor or one of its subcontractor(s).
2. The Contractor agrees that Canada may publicly disclose the information provided with respect the countries of origin.
3. The Contractor must immediately inform Canada in writing of any and all changes affecting the information provided under this clause during the entire contract period.

#### **6.21 Overshipment**

Overshipment will not be accepted unless prior approval is obtained from the Contracting Authority.

#### **6.22 Post Contract Award Meeting**

The Design Authority or his delegated representatives at National Defence Headquarters and the applicable DND Quality Assurance Representative (DNDQAR) must be afforded access to the Contractor's plant and all other premises where pertinent processes are being performed, on the same basis as afforded the representative of National Defence Headquarters, DGQA.

A post contract award meeting may be convened within twenty (20) calendar days after award of contract. Participants may include representatives of the Contractor, DND Design Authority, DNDQAR, DND project Authority, Contracting Authority and the DND Administrative Authority. Other meetings may be convened as required.

The Contractor is responsible for the recording and distribution of the minutes for all contract related meeting. The minutes must be sent to the Contracting Authority for acceptance prior to the distribution to all participants or as otherwise directed in the contract within ten (10) calendar days of the subject meeting. The minutes must be used only as a record of proceedings.

#### **6.23 Production Samples**

1. The Contractor must take five (5) production samples of each coat and trousers with sizing as follows: Coat (7040 Regular) and Trousers (7034 Regular) from the first production run and provide them to the Technical Authority, accompanied by the sealed samples/patterns/ viewing samples, if applicable, for acceptance within 30 calendar days from the start of the production.
2. Rejection by the Technical Authority of the production samples submitted by the Contractor for failing to meet the contract requirements will be grounds for termination of the Contract for default.
3. If the production samples are accepted by either full acceptance or conditional acceptance, the Contractor must proceed with production as per the Contract requirements.
4. The Contractor must carry out all required inspection and tests to verify conformance to the technical requirements of the Contract.

5. In addition to providing the production samples, the Contractor must provide laboratory test reports and Certificates of compliance, as applicable, to the Contracting Authority and Technical Authority, transportation charges prepaid, and without charge to Canada.
6. The production samples submitted by the Contractor will remain the property of Canada.
7. The Technical Authority will notify the Contractor, in writing, of the full acceptance, conditional acceptance, or rejection of the production samples. A copy of this notification will also be provided by the Technical Authority to the Contracting Authority. The notice of the full acceptance or conditional acceptance does not relieve the Contractor from complying with all requirements and conditions of the Contract.
8. The Contractor must not continue with production of the items and must not make any deliveries until the Contractor has received a written notification from the Technical Authority that the production samples are fully acceptable or conditionally acceptable. Any production of items before production sample acceptance will be at the sole risk of the Contractor.
9. The production samples may not be required if the Contractor is currently in production. The request for waiver of production samples must be made by the Contractor in writing to the Contracting Authority. The waiving of this requirement will be at the sole discretion of the Technical Authority and will be evidenced through a contract amendment.

#### **CERTIFICATE OF COMPLIANCE-DEFINITION**

A Certificate of Compliance is a written statement from an appropriate official of the component manufacturer **OR** fabric manufacturer attesting the full compliance of the component or fabric to the specification. This document must be on official company stationery; it must be dated within six (6) months of the Request for Proposal posting date; it must make reference to the applicable specification and have the original signature of the company's designated representative. Canada reserves the right to verify the statements made in the Certificate of Compliance. Full test results, demonstrating the product's compliance, will be accepted in lieu of a Certificate of Compliance.

#### **LABORATORY ANALYSIS - DEFINITION**

Laboratory analysis of the product offered showing complete test results for specific tests listed in Annex C1 herein must be provided with the production samples, if requested by the Technical Authority. Testing must be performed by an independent accredited laboratory establishment and must be in accordance with the test methods detailed in the technical requirement. The laboratory report and test results must be dated within six months of the request for proposal posting date.

#### **6.24 Sealed Samples and/or Patterns - Return to Sender**

The sealed samples and/or viewing patterns which may have been sent to the Contractor, are to be returned to the sender upon completion of Contract.

The sealed samples and/or viewing patterns are not to be mutilated or cut, and must be returned in the same condition as sent to the Contractor.

#### **6.25 Specifications and Standards**

##### **6.25.1 United States Military Specifications and Standards**

The Contractor is responsible for obtaining copies of all United States (US) military specifications and standards which may be applicable to the requirement. These specifications and standards

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are available commercially, or may be obtained by visiting the US Department of Defense Website, at the following address: [http://assistdocs.com/search/search\\_basic.cfm](http://assistdocs.com/search/search_basic.cfm)

#### **6.25.2 Canadian General Standards Board (CGSB) - Standards**

A copy of the CGSB Standards referred to in the Contract is available and may be purchased from:

Canadian General Standards Board  
Place du Portage III, 6B1  
11 Laurier Street  
Gatineau, Québec  
Telephone: (819) 956-0425 or 1-800-665-CGSB (Canada only)  
Fax: (819) 956-5740  
E-mail: [ncr.cgsb-ongc@pwgsc-tpsgc.gc.ca](mailto:ncr.cgsb-ongc@pwgsc-tpsgc.gc.ca)  
CGSB Website: <http://www.tpsgc-pwgsc.gc.ca/ongc-cgsb/index-eng.html>

#### **6.26 Financial Security**

1. Canada may convert the security deposit to the use of Canada if any circumstance exists which would entitle Canada to terminate the Contract for default, but any such conversion will not constitute termination of the Contract.
2. Where Canada so converts the security deposit:
  - (a) the proceeds will be used by Canada to complete the Work according to the conditions of the Contract, to the nearest extent that it is feasible to do so and any balance left will be returned to the Contractor on completion of the warranty period; and
  - (b) if Canada enters into a Contract to have the Work completed, the Contractor will:
    - (i) be considered to have irrevocably abandoned the Work; and
    - (ii) remain liable for the excess cost of completing the Work if the amount of the security deposit is not sufficient for such purpose. "Excess cost" means any amount over and above the amount of the Contract Price remaining unpaid together with the amount of the security deposit.
3. If Canada does not convert the security deposit to the use of Canada before completion of the contract period, Canada will return the security deposit to the Contractor within a reasonable time after such date.
4. If Canada converts the security deposit for reasons other than bankruptcy, the financial security must be reestablished to the level of the amount stated above so that this amount is continued and available until completion of the contract period.

**STATEMENT OF WORK  
FOR  
SPECIAL OPERATIONS FORCES (SOF) DISTINCTIVE SERVICE UNIFORMS**

**1.0 SCOPE**

**1.1. Purpose**

The purpose of this Statement of Work is to define the scope and requirements for provision of SOF Distinctive Service Uniforms (SDSU) to the Department of National Defence (DND).

**1.2. Background**

DND has a requirement for a Distinctive Service Uniforms manufactured in accordance with the DND provided manufacturing data and patterns and finished with an outer surface printed with the MULTICAM® camouflage pattern.

**1.3. Applicable Documents**

The following documents form part of this statement of work to the extent specified and are supportive of the statement of work when referenced; all other document references are to be considered supplemental information only.

- Canadian General Standards Board (CGSB) CAN/CGSB-43.22-2001 Corrugated Fibreboard Products

**1.4. Acronyms**

CGSB	Canadian General Standards Board
DND	Department of National Defence
MPN	Manufacturer's Part Number
NATO	North Atlantic Treaty Organization
NCage	NATO Commercial and Government Entity
NSN	NATO Stock Number
ROC	Requisition on Contract
SDSU	SOF Distinctive Service Uniform
SOF	Special Operations Forces

**2.0 REQUIREMENTS**

The Department of National Defence has a requirement for SOF Distinctive Service Uniforms on an "if and as required basis".

**2.1. Deliverables**

The Contractor must deliver the following:

- (a) Garments in accordance with the Manufacturing Data at Annexes B1 and B2 in accordance with the requisitions against the ROC. Each requisition will specify quantities required by size and the material to be used (Type I, Type II or Type III);
- (b) Garments in special sizes on an "as-and-when-requested" basis in accordance with Section 2.7; and

(c) Technical Data in accordance with Section 2.3.

2.1.1. Language

All deliverables including Technical Data in accordance with Section 2.3, labels and materials information must be provided in English.

2.2. Forecasted Demand

The estimated forecasted demand is as follows:

Item	Description	Material	Initial Delivery (Upon Award)	Year 1	Year 2	Option Year 1	Option Year 2	Option Year 3
1	Coats	Type I (Annex C1)	8000		2640	2760	2880	3000
2	Coats	Type II (Annex C2)	1100		550	575	600	625
3	Coats	Type III (GSM)		1400	850	875	900	925
4	Trousers	Type I (Annex C1)	8000		2640	2760	2880	3000
5	Trousers	Type II (Annex C2)	1100		550	575	600	625
6	Trousers	Type III (GSM)		1400	700	725	750	775

2.3. Technical Data

The Contractor must provide to the DND Technical Authority, in English, the following information for each garment in PDF or Word format:

- (a) Item Name;
- (b) NCage, if applicable;
- (c) NATO Stock Number (NSN) and/or Manufacturer Part Number (MPN);
- (d) Weight; and
- (e) Shelf Life (if applicable);

2.4. Quality Assurance Program

The Contractor must be responsible for the performance of all inspections and tests necessary to demonstrate that the material and services submitted to DND for acceptance conform to the requirements of the ROC. The Contractor may utilize its own inspection and test equipment, or that of any other facility acceptable to the Quality Assurance Authority. The Government's Quality Assurance Authority reserves the right to perform any verification of the activities deemed necessary to confirm that the material and services conform to ROC requirements.

2.5. Quality Control Inspection (Receipt)

DND will conduct random Quality Control Inspections of SDSU Shirts and Pants for overall quality and workmanship upon receipt. The material of the garments must be free of imperfections or blemishes that

14 July 2017

may adversely affect its appearance, quality or serviceability. For inspection purposes, imperfections and blemishes must be considered defects when clearly visible at a normal inspection distance of approximately 1 m (3.3 ft) under day light conditions. Good commercial standard practices must apply throughout, with the following being considered poor commercial standard practice:

- (a) Any hole, cut, tear, mend, drop stitch, loose knit, miss knit, streak, knitted-in-waste, permanent fold, pleat or crease;
- (b) Any spot or stain, discoloration or colour not as specified; and
- (c) Any shaded part or any objectionable odor.

Any garments that do not pass the receipt inspection will be returned to the Contractor for repair or disposal. If 5% (or more) of a given delivery order is found to be unacceptable, up to the entire delivery order, at the discretion of DND, may be returned to the Contractor for repair or disposal.

#### 2.6. Durability Assessment

DND reserves the right to conduct random durability assessments of the uniforms as follows:

- (a) Random samples will be chosen from the delivery lot;
- (b) Samples will be washed thirty (30) times using following the manufacturer's recommended washing procedures; and
- (c) The samples will be assessed for quality as per the Quality Control Inspection above, but quality of manufacture including lost buttons, failed seams, etc. will be included in the assessment.

Any garments that do not pass the durability assessment will be returned to the Contractor for replacement. If 5% (or more) of a given delivery order is found to be unacceptable, up to the entire delivery order, at the discretion of DND, may be returned to the Contractor for replacement.

#### 2.7. Special Sizes

The following applies to special size garments.

##### 2.7.1. Definition

The term "special size garments" is defined as garments whose sizes are outside the Scale of Measurements in the manufacturing data (Annexes B1 and B2). A special size garment is tailor fit to an individual using body measurements provided by DND. With the exception of size the Contractor must manufacture Special Size garments in full compliance with the Manufacturing Data in Annexes B1 and B2.

##### 2.7.2. Measurements

DND will supply to the Contractor the following body measurements for every special size order:

- (a) Height without shoes;
- (b) Chest / bust circumference;
- (c) Waist circumference;
- (d) Hip circumference (women only);

- (e) Neck circumference;
- (f) Sleeve length; and
- (g) Inseam.

2.7.3. Delivery

Special size garments are to be delivered to the location specified on the delivery order within thirty (30) days of receipt of the order by the Contractor.

2.7.4. Demand

Special size quantities are included in the forecasted demand at Section 2.2. The maximum expected demand for special sizes is twenty (20) of each garment per year.

2.8. Packaging – Individual

Each garment/equipment must be neatly folded in accordance with good commercial practice and packaged individually. The package must consist of a polyethylene (or other transparent film) bag or envelope, made of material not less than one (1) mil thickness. The bags must be taped or stapled to effect closure and must be legibly marked (labeled) as follows (only required if the garment/equipment identification markings are not clearly visible through the bag):

- (a) NATO Stock Number (NSN) and/or Manufacturer Part Number;
- (b) Item Name; and
- (c) Size.

2.9. Packaging – Quantity

A quantity of individual garment/equipment packages, of the same size, must be packed into a corrugated fiberboard box as follows:

- (a) Box construction and closure conforms to Canadian General Standards Board (CGSB) specification CAN/CGSB-43.22-2001;
- (b) Overall inside dimensions (length, width and depth added) must not exceed 1.5 meters (59 inches) and the box size and content quantity must be uniform for the duration of the ROC;
- (c) Maximum weight of the box and contents must not exceed 18 kg (40 pounds)
- (d) Stenciling or labelling on one end of each box, in legible figures as large as practicable in relation to the space available, the following information:
  - i. NATO Stock Number (NSN) or Manufacturer Part Number;
  - ii. Item Name/Nomenclature (in bilingual format);
  - iii. Quantity (per box);
  - iv. Gross Weight (nearest kg); and
  - v. ROC Serial Number - As specified on ROC.

14 July 2017

NOTICE



This documentation has been reviewed by the technical authority and does not contain controlled goods. Disclosure notices and handling instructions originally received with the document shall continue to apply.

AVIS

Cette documentation a été révisée par l'autorité technique et ne contient pas de marchandises contrôlées. Les avis de divulgation et les instructions de manutention reçues originalement doivent continuer de s'appliquer.

**MANUFACTURING DATA  
FOR  
COAT, SOF DISTINCTIVE SERVICE UNIFORM, MULTICAM®**

**1.0 SCOPE**

1.1 Scope

This Manufacturing Data covers the material, design, construction and inspection requirements for the Coat, Special Operations Forces (SOF) Distinctive Service Uniform, MULTICAM®.

1.2 Intended Use

The Coats are worn with the SOF Distinctive Service Uniform Trousers (in accordance with Manufacturing Data at Annex B2) by authorized Canadian Special Operations Forces Command personnel.

1.3 Classification

The Coats will be supplied in one (1) of the following types as specified in the Contract:

- (a) Type I - Coat, Special Operations Forces (SOF) Distinctive Service Uniform, MULTICAM®, Cloth, Ripstop, 50/50 Nylon Cotton;
- (b) Type II - Coat, Special Operations Forces (SOF) Distinctive Service Uniform, MULTICAM®, Cloth, Ripstop, Lightweight Breathable Nylon; and
- (c) Type III - Coat, Special Operations Forces (SOF) Distinctive Service Uniform, Government Supplied Material.

**2.0 GENERAL**

2.1 Intellectual Property

The information, data, know-how, formulas, algorithms, software, processes, systems, methods, designs, text, works, figures, tables, sketches, photographs, plans, drawings, specifications, samples, reports, names, inventions and/or ideas contained herein (hereinafter "Intellectual Property") is the exclusive property of Her Majesty The Queen in Right of Canada as represented by the Minister of National Defence (hereinafter referred as "DND"). No one has the right to reproduce, disclose, disseminate, or utilize, in any manner or in any form, this Intellectual Property, or any part thereof, without the prior written consent of DND. For further information on the restrictions applicable to this Intellectual Property, or to request consent from DND, please contact the Contracting Authority.

2.2 Applicable Documents

The following documents form part of this Manufacturing Data to the extent specified, and are supportive of this Manufacturing Data when referenced; all other document references are to be considered supplemental information only. In the event of a conflict between the documents referenced and the contents of this Manufacturing Data, then the contents of this Manufacturing Data must take precedence;

DND Specifications and Standards (provided upon request)

- D-80-001-055/SF-001 Specification for Label, Clothing and Equipment
- CF-B-854 Buttons, Nylon

DND Drawings (provided upon request)

- 373118 Button, Nylon, Slotted, 30 Ligne
- 8790166 - Strap and Button Argt, 30-ligne, Type I

CAN/CGSB Standards (email: [ncr.cgsb-ongc@pwgsc.gc.ca](mailto:ncr.cgsb-ongc@pwgsc.gc.ca))

- CAN/CGSB-54.1-M Stitches and Seams, Parts I and II
- CAN/CGSB-86.1-2003 Care Labelling of Textiles
- CAN/CGSB-4.2-M Textile Text Methods
- CAN/CGSB-4.131-M Cotton-Covered or Polyester-Covered, Polyester Thread
- CAN/CGSB-4.139 Polyester Staple Thread
- 4-GP-80Ma Cotton, Thread

FED Standards (Download Documents: <http://assist.daps.dla.mil/quicksearch/>)

- A-A-55126A Commercial Item Description - Fastener Tapes, Hook and Loop, Synthetic
- MIL-T-8363 Tape and Webbing, Textile, Woven, Nylon
- MIL-PRF-5038 Tape, Textile and Webbing, Textile, Reinforcing, Nylon

2.2.1 Order of Precedence

The order of preference is as follows:

- In the event of inconsistency between contract documents, such as contract, Manufacturing Data, drawing and sealed pattern, the order of precedence shall be contract, Manufacturing Data, drawing and sealed patterns;
- In the event of a conflict between the text of this manufacturing data and the references cited herein, the text of this manufacturing data must take precedence;
- In the event of inconsistency within this manufacturing data, the Contracting Authority must be contacted for clarification; and
- Nothing in this document supersedes applicable laws and regulations, unless a specific exemption has been obtained.

2.3 Definitions

Hook and Loop Fastener	A fastening consisting of two strips of nylon fabric, one having hooked threads and the other a coarse surface, that form a strong bond when pressed together, trademarked under the name VELCRO®.
MULTICAM®	A proprietary design for a computer generated digital camouflage pattern patented by Crye Precision Ltd.
Slide Fastener	A fastener for locking together two toothed edges by means of a sliding tab,

commonly referred to as a zipper.
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#### 2.4 Layout Sketches

Schematic layout sketches for the Coats are included as part of this Annex. The sketches are designed to provide a general layout of the Coats only. They are not to scale and are not representative of the style, fit, colour scheme or form of the final garment. The following sketches are included in Appendix 1:

- (a) Figure 1: Front and Back View;
- (b) Figure 2: Dimensions of Garment Components;
- (c) Figure 3: Dimensions of Front Pockets;
- (d) Figure 4: Dimensions of Sleeve Pockets;
- (e) Figure 5: Back View Details: and
- (f) Figure 6: Care and Marking Label.

#### 2.5 Patterns

DND will provide patterns as follows:

- (a) Sealed pattern: DSSPM 127-11 - Converged Coat, Combat, Lightweight, ECU, CADPAT™ (TW) (Sealed for construction and design); and
- (b) Paper patterns - Paper patterns for all sizes under Style SCLFRD30. Size 7040 (regular/medium) will be used for tendering purposes.

Note: The patterns for the Converged Coat, Combat, Lightweight, ECU, CADPAT™ (TW) are to be used for the construction of the Coat, SOF Distinctive Service Uniform.

### **3.0 REQUIREMENTS**

#### 3.1 Design

The design must be in accordance with Sealed Patterns DSSPM 127-11 and must incorporate the following features:

- (a) Stand up collar;
- (b) Single breasted front closure with covered buttons;
- (c) Loop fastener tape for rank badge on front fly cover;
- (d) Loop fastener tape for name tape on right breast;
- (e) Pockets with vertical slide fastener at the breast;
- (f) Pockets with hook and loop flap at the hip area;
- (g) Set-in two (2) piece sleeves with hook and loop tab wrist closure;

14 July 2017

- (h) Semi-bellows pocket with vertical slide and loop for removable MULTICAM® patch on both left and right upper sleeves;
- (i) Double pencil pocket with hook and loop flap and web pull on both lower sleeves;
- (j) One-piece elbow reinforcement patches;
- (k) Yoke;
- (l) Action back; and
- (m) Waist suppression at each back side.

Note: Unless otherwise specified, these garments must be governed by the Scale of Measurements at Appendix 2.

### 3.2 Material

The following applies:

- (a) Shell Material - The following applies:
  - i. The shell material for Type I must be Cloth, Ripstop, 50/50 Nylon Cotton in accordance with the specification at Annex C1;
  - ii. The shell material for Type II must be Cloth, Ripstop, Lightweight Breathable Nylon in accordance with the specification at Annex C2; and
  - iii. The shell material for Type III must be the Government Supplied Material;
- (b) Waist Suppression Elastic - The elastic must:
  - i. Be a commercially available knitted elastic in accordance with Table 1; and
  - ii. Be Light Sand in colour;

Table 1: Technical Requirements for Waist Suppression Elastic

Property	Requirement	Minimum	Maximum	Test Method
Materials	60% Polyester 40% Rubber	62% Polyester 38% Rubber	58% Polyester 42% Rubber	N/A
Construction	Knitted	24 cords	28 cords	N/A
Width	1.9 cm (0.75 in)	N/A	N/A	CAN/CGSB-4.2M - 4.1
Weight	49.8-56.7 m/kg	-5%	+5%	CAN/CGSB-4.2M - 5.1
Elongation	125%	-10%	+10%	CAN/CGSB-4.2M - 10

- (c) Slide Fasteners - All slide fasteners must:
  - i. Be Class 3, Type 1;
  - ii. Be a monofilament fastener with an automatic, non-lock slider conforming to D-83-001-005/SF-001;
  - iii. Be Light Sand in colour; and
  - iv. Have tapes as follows:
    - a. Woven using a twill weave;
    - b. Be 0.79 cm (0.31 in) wide in accordance with MIL-T-8363, Type 1; and
    - c. Be Light Sand in colour;
  - v. Have webbing for pull tabs and cord ends as follows:

14 July 2017

- a. Be 1.27 cm (0.5 in) wide in accordance with MIL-PRF-5038, Type IV; and
- b. Be Light Sand in colour;

Note: YKK - 20517 CFC 456 DFW MPC 9/16 has been known to meet the requirements. (YKK FR slide fastener products 3939 Thimens Blvd, Ville St-Laurent, QC H4R 1X3 Tel.: (514) 332-3356)

- (d) Hook and Loop Fastener Tape - The hook and loop fastener tape must:
  - i. Be Type I, Class 1 regular nylon in accordance with A-A-55126A; and
  - ii. Be Light Sand in colour;
- (e) Buttons - The buttons must:
  - i. Be nylon, conforming to specification CF-B-854 and drawing 373118; and
  - ii. Be Light Sand in colour;
- (f) Thread - The following applies:
  - i. The thread for seaming, stitching, buttonholes and bartacks must:
    - a. Be cotton-covered or polyester-covered, polyester thread (R50Tex) conforming to CAN/CGSB-4.131-M; and
    - b. Be Light Sand in colour;
  - ii. The thread for serging and/or seaming and serging must:
    - a. Be polyester staple thread (R40Tex) conforming to CAN/CGSB-4.139; and
    - b. Be Light Sand in colour;
- (g) All material must be sourced and supplied by the Contractor.

3.3 Sizing

The Coats must be available in the following sizes in accordance with the Scale of Measurements at Appendix 2:

Height (cm)	Chest (cm)					
	32	36	40	44	48	52
64	X	X	X			
67		X	X	X	X	
70		X	X	X	X	X
73		X	X	X	X	X
76			X	X	X	X

The Coats must also be available in special sizes where the above sizes are not suitable.

3.4 Cutting

The following applies:

- (a) The Coats must be cut using duplicates of Government supplied paper patterns as follows:
  - i. Paper patterns include seam allowance but do not include ‘make-up’ allowance; and
  - ii. The Contractor is responsible for adding ‘make-up’ allowance to suit their production methods without changing the design, grade or requirements for the Coats;

Note: Paper patterns will not be supplied to the Contractor for special sizes.

- (b) The shell parts of the Coats must:

14 July 2017

- i. Be cut and used in accordance with best commercial standards;
- ii. Be cut in the direction of the warp as shown on the paper patterns; and
- iii. Be cut from the same piece of shell material with the exception of the inside breast pocket lining, utility pockets, all buttoning flap portions and drawcord channels, which may be cut from separate lays of ends of shell material.

### 3.5 Sewing

The following applies:

- (a) Seams must be as follows:
  - i. Conform to CAN/CGSB-54.1-M;
  - ii. Be a minimum of 9.5 mm (0.375 in) wide unless otherwise specified; and
  - iii. Double-lapped seams conform to numerical designation 2.04.03 of CAN/CGSB-54.1-M, with the needles set 6.4 mm (0.25 in) apart;
- (b) Stitching must be as follows:
  - i. Be either lockstitched Type 301 or chain stitch Type 401 (unless otherwise specified) conforming to CAN/CGSB-54.1-M, having not less than eight (8) nor more than ten (10) stitches per 2.5 cm (1 in);
  - ii. For double-needle stitched, needles set 6.4 mm (0.25 in) apart;
  - iii. Ends of all lockstitched seams and stitching, also breaks in thread, securely backstitched; and
  - iv. Present a regular even appearance without fabric pucker and be free from skips that may result from faulty machine tension or other stitching malfunctions;
- (c) Where seaming, turning and stitching is specified, the edges must be properly worked out before stitching;
- (d) When serging, all exposed raw edges must be finished with any 500 series stitches, with not less than ten (10) stitches per 2.5 cm (1 in);
- (e) Where seaming and serging is specified, this may be done in one or two operations;
- (f) Buttonholes must:
  - i. Be gimp reinforced eyelet type with not less than 22 stitches per 2.5 cm (1 in);
  - ii. Have ends fishtailed or bartacked; and
  - iii. Have a buttonhole gimp as follows:
    - a. 100% cotton, 3-cord soft finish, R50Tex conforming to 4-GP-80Ma; and
    - b. Be Light Sand in colour;
- (g) Button and strap assemblies (where specified) must:
  - i. Be threaded with a strap of shell material in accordance with Drawing 8790166 for 30-ligne buttons; and
  - ii. Have straps as follows:
    - a. Seam type numerical designation 8.06.02 or 8.19.01;
    - b. Finished width of 9.5 mm (0.375 in); and
    - c. Attached with bartacks;
- (h) Hook and loop fastener tape must:
  - i. Be stitched around all edges 3.2 mm (0.125 in) gauge, taking care to ensure stitching is formed into the hook and loop portion of the tape;

14 July 2017

- ii. For tapes wider than 2.5 cm (1 in) stitched around all edges and through the centre or have a 'X' enclosed in the box; and
  - iii. For best results, a ball point needle, size 110 (#18) should be used;
- (i) Tape for slider pulls must:
- i. Be hot cut, fed through the slider and secured in place by backstitching; and
  - ii. Be no less than 5 cm (2 in) long;
- (j) Webbing for pull tabs and cord ends must:
- i. Be folded and stitched around all edges;
  - ii. Be no less than 1.6 cm (0.625 in) long; and
  - iii. Have pull tabs secured in their respective position by a bartack, with exception of the cord end which is to be secured by backstitching;
- (k) Bartacks, unless specified otherwise, must be 9.5 mm (0.375 in) long and must have not less than twenty (20) cover stitches per 2.5 cm (1 in).

### 3.6 Label

The Coats must include a Care and Marking Label (see Figure 6) as follows:

- (a) Positioned on the inside of the left front, behind the breast pocket and stitched around all edges at 3.2 mm (0.125 in) gauge;
- (b) Light sand in colour with black printing in characters not less than 3.2 mm (0.125 in) nor more than 6.4 mm (0.25 in) in height, with the exception of the size identification which must be twice the height;
- (c) Care symbols in accordance with CAN/CGSB-86.1-2003 including the following:
  - i. Table 1 – Washing – Symbol 6;
  - ii. Table 2 – Bleaching – Symbol 3;
  - iii. Table 3 – Drying – Symbol 3;
  - iv. Table 4 – Ironing/Pressing – Symbol 5; and
  - v. Table 5 – Professional Textile Care – Symbol 3;
- (d) Marking label in accordance with D-80-001-055/SF-001 including the following:
  - i. NATO Stock Number as required for each size;
  - ii. Size by height and chest;
  - iii. NATO size designation;
  - iv. Contract Number;
  - v. Care Symbols (in black ink); and
  - vi. Fibre content (Nylon/Cotton, etc.).

### 3.7 Construction

The Coats are to be manufactured in accordance with the following requirements:

- (a) **General** - The Coats must consist of a full-length front opening Coat with full-length arms constructed of the shell material;
- (b) **Collar** - The Coats must have a high flat collar that rises above the shoulders as follows:
  - i. Constructed of three (3) plies of shell material as follows:
    - a. 2- ply thickness on the outside collar; and

- b. Plies seamed together along the sides and outer edge, turned and stitched 1.6 mm (0.0625 in) gauge through all layers;
- ii. Neck edge of the upper collar turned under and stitched to the neck seam of the coat, 1.6 mm (0.0625 in) gauge through all layers;
- iii. Have a right collar side (see Figure 2) as follows:
  - a. In line with the front closure; and
  - b. Include a loop tape stitched to the outside collar to secure the front tab closure as follows:
    - 1. 3.8 cm (1.5 in) width; and
    - 2. 4.4 cm (1.75 in) length;
- iv. Have a left collar side (see Figure 2) as follows:
  - a. Have a 5 cm (2 in) tab;
  - b. Include a loop tape stitched on the outside of the collar tab as follows:
    - 1. 3.8 cm (1.5 in) width; and
    - 2. 3.8 cm (1.5 in) length;
  - c. Include a hook tape positioned beside the loop tape on the outside of the collar tab, to secure the collar tab when folded back, as follows:
    - 1. 3.8 cm (1.5 in) width; and
    - 2. 3.8 cm (1.5 in) length;
  - d. Include a hook tape stitched to the inside collar tab as follows:
    - 1. 3.8 cm (1.5 in) width; and
    - 2. 3.8 cm (1.5 in) length;

(c) **Seams** - The Coats must have seams as follows:

- i. Action back, fitted with a yoke and two (2) uncut darts at the waist as follows:
  - a. Action back as follows:
    - 1. Constructed of three (3) pieces of shell material;
    - 2. Seamed and serged, positioned as indicated on the paper pattern; and
    - 3. Overlap stitched into the yoke joining seam and finish above the waist elastic suppression;
  - b. Yoke as follows:
    - 1. With the foreparts sandwiched between the back and yoke, the shoulder to be seamed together; and
    - 2. Pressed down and finished with a double needle stitch along the shoulder and back seams;
  - c. A dart in each back half seamed from 12.7 mm (0.5 in) at the centre to zero at each end;
- ii. Sleeves as follows:
  - a. Two-piece, set-in sleeve made from two (2) pieces of shell material;
  - b. Sleeve back double-lapped seamed; and
  - c. Joined to their respective armhole with a double-lapped seam with the body overlapping the sleeve on the outside or seamed, serged and double-needle stitched;
- iii. Side seams as follows:
  - a. Front and back joined together with a double-lapped seam along the side seams and underarm of the sleeve in one continuous operation; and
  - b. Back overlaps the fronts on the outside;
- iv. Elbow patch as follows:
  - a. One (1) piece octagonal elbow reinforcement patch made from shell material;
  - b. Positioned as per the paper pattern, with the larger portion of the patch towards the back of the sleeve back seam; and

- c. Stitched all round with a double row of stitching and over the curved sleeve back seam;
- (d) **Front Closure** - The Coats must have a front button closure as follows:
  - i. Fronts be finished by a separate facing cut of shell material;
  - ii. Right front facing as follows:
    - a. Right facing and front stitched, turned and finished with a double row of stitching; and
    - b. Inside edge of the facing turned and finished with a single row of stitching;
  - iii. Left front facing as follows:
    - a. Include a buttoning flap as follows:
      - 1. Made of shell material; and
      - 2. Outer edge of the buttonhole flap stitched, turned and finished with a double row of stitching;
    - b. Buttonholes stitched;
    - c. Buttonhole flap, left facing and left front stitched, turned and finished with a double row of stitching;
    - d. Inside edge of all layers turned under and finished with a double row of stitching; and
    - e. Include a bartack positioned between each buttonhole, stitched through all layers;
  - iv. Front closure buttons as follows:
    - a. Five (5) 30-ligne button and strap assemblies sewn to the right forepart, effecting proper closure with the left forepart; and
    - b. Assemblies placed vertically 2.5 cm (1 in) from the front edge;
- (e) **Pockets** - The Coat must have pockets as follows:
  - i. **Front Chest Pockets** - An external flat pocket on each upper front chest as follows:
    - a. Constructed from one (1) ply of shell material
    - b. Pocket edges serged;
    - c. Front edge of the pocket turned under 2.5 cm (1 in) and double needle stitched at 1.6 mm (0.0625 in) gauge; and
    - d. Slide fastener as follows:
      - 1. 17.8 cm (7 in) in length;
      - 2. Include a tape slide pull extension;
      - 3. Close upward; and
      - 4. Sides folded in line with the corners and secured as follows:
        - a. Outer covered by the folded edge of the pocket and secured by a double row of stitching;
        - b. Inner attached by a double row of stitching to the sleeve shell;
        - c. Top of the slide fastener tape included in the above operation; and
        - d. Bottom of the slide fastener tape secured by a double row of stitching, with a finished opening of 15 cm (6 in);
  - ii. **Sleeve Semi-Bellows Pockets** - A semi-bellows type pocket on the upper exterior portion of each sleeve as follows:
    - a. Constructed from one (1) ply of shell material as follows:
      - 1. Sides and bottom edge of the pocket serged;
      - 2. Bellows cut seamed to form a box corner;
      - 3. Front edge of the pocket turned under 2.5 cm (1 in) and stitched at 1.6 mm (0.0625 in) gauge;

4. Front bottom bellow stitched securely through all layers; and
  5. Remaining sides must be folded in line with the corners and stitched 1.6 mm (0.0625 in) gauge;
  - b. Removable pocket patch as follows:
    1. Constructed of shell material; and
    2. Include a web pull tab as follows:
      - a. Centered on the bottom edge; and
      - b. Sandwiched between the shell fabric and the hook tapes and reinforced by a bar tack;
    3. Include hook tapes as follows:
      - a. Two (2) pieces of hook fastener tape as follows:
        - i. 10 cm (2 in) width; and
        - ii. 11.4 cm (4.5 in) length;
      - b. Double needle stitched around all edges; and
      - c. Finished with an 'X' enclosed in the box formed by the tapes;
  - c. Loop tape attachment for Removable Pocket Patch as follows:
    1. Two (2) pieces of loop fastener tape as follows:
      - a. 10 cm (2 in) width; and
      - b. 16.5 cm (6.5 in) length;
    2. Sewn to the pocket front (see Figure 4);
    3. Double needle stitched around all edges; and
    4. Finished with an 'X' enclosed in the box formed by the tapes;
  - d. Slide fastener on the front edge as follows:
    1. 15 cm (6 in) in length;
    2. Close upward; and
    3. Sides folded in line with the corners and secured as follows:
      - a. Outer covered by the folded edge of the pocket and secured by a double row of stitching;
      - b. Inner attached by a double row of stitching to the sleeve shell;
      - c. Top and bottom of the slide fastener tape included in the above operation; and
      - d. Top and bottom of the slide fastener opening reinforced by backstitching, with a finished opening of 12.7 cm (5 in);
- iii. Double Pencil Pockets - Self-reinforced double pencil pockets as follows:
- a. Constructed from one (1) ply of shell material;
  - b. Positioned on each wrist such that the outside edge of the pencil pocket lines up with the hinged edge of the wrist suppression tab on the lower part of the front sleeve, so that when the tab is adjusted, the outside pocket edge is positioned on the fold line (see Figure 4);
  - c. Have an angled top edge;
  - d. Top corner reinforced with a bartack;
  - e. Bottom and top edges must be turned and stitched at 2.5 cm (1 in) gauge;
  - f. Finished width of the pocket of 5 cm (2 in);
  - g. Loop tapes, stitched to the sleeve shell, as follows:
    1. Positioned as per the paper pattern with the upper tape positioned to provide reinforcement for the flap hinge;
    2. Upper tape as follows:
      - a. 3.8 cm (1.5 in) width; and
      - b. 6 cm (2.3 in) length;
    3. Lower tape as follows:
      - a. 2.5 cm (1 in) width; and



14 July 2017

- (g) **Waist Suppression** - The Coat must have waist suppression as follows:
- i. Casing made of shell material as follows:
    - a. 3.2 cm (1.25 in) wide;
    - b. 17.5 cm ( 7 in) long;
    - c. Positioned on the waistline, as per the paper pattern, and extend from side seam to the back; and
    - d. Secured by double row of stitching at each end;
  - ii. Include an internal elastic in the casing as follows:
    - a. 1.9 cm (0.75 in) wide; and
    - b. 16.5 cm (6.5 in) long when extended;
- (h) **Sleeve Hem** - The sleeves must have a hem as follows:
- i. 5 cm (2 in) cut-on hem;
  - ii. 1.5 cm (1 in) wide by 18 cm (7 in) long loop patch on outside; and
  - iii. Adjustment tab as follows:
    - a. 5 cm (2 in) wide by 7.5 cm (3 in) long; and
    - b. 1.5 cm (1 in) wide by 4.4 cm (1.75 in) long hook patch on inside;
- (i) **Bottom Hem** - The bottom edge of the coat must have a finished hem of 1.9 cm (0.75 in).

### APPENDIX 1 LAYOUT SKETCHES

Figure 1: Front and Back View

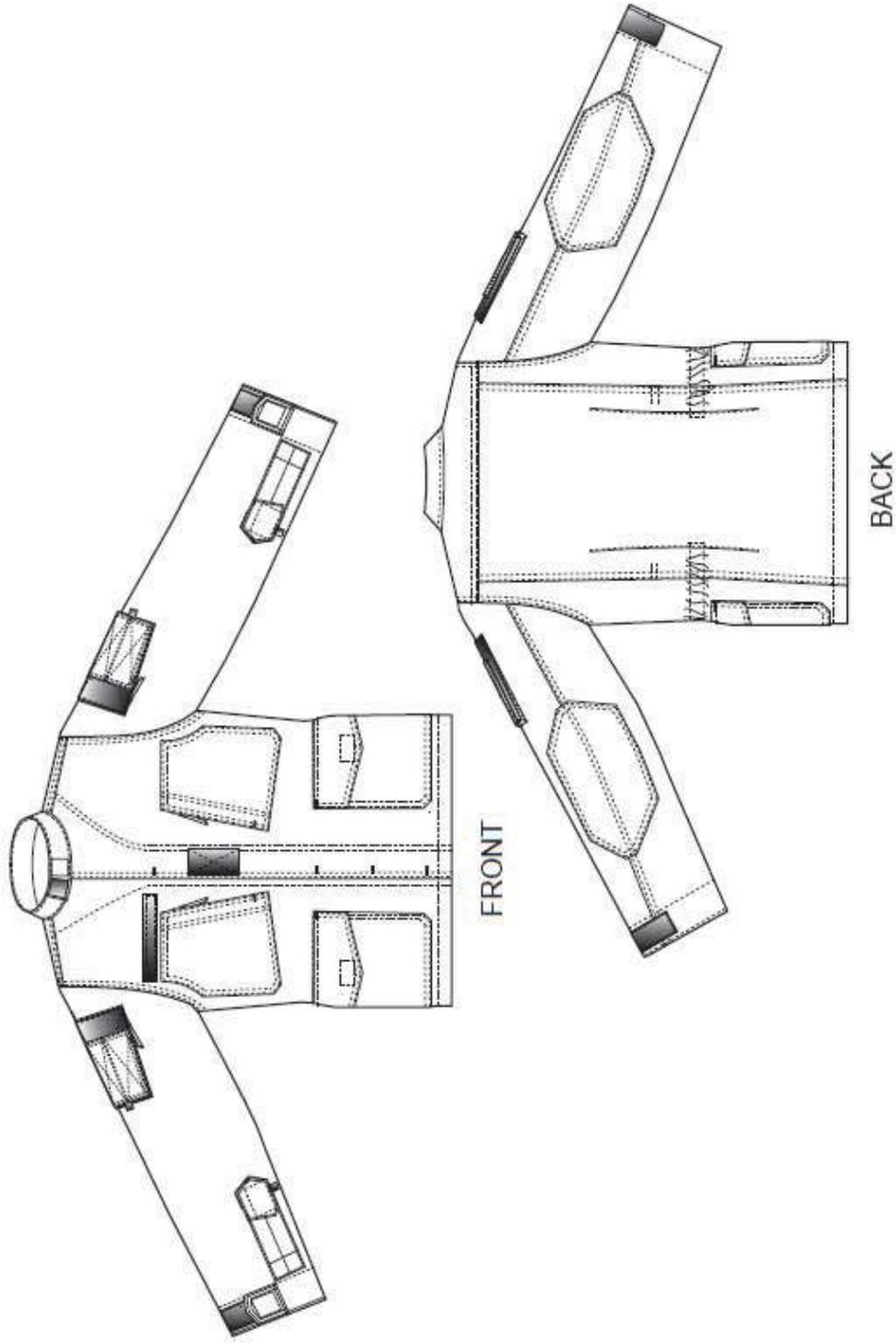


Figure 2: Dimensions of Garment Components

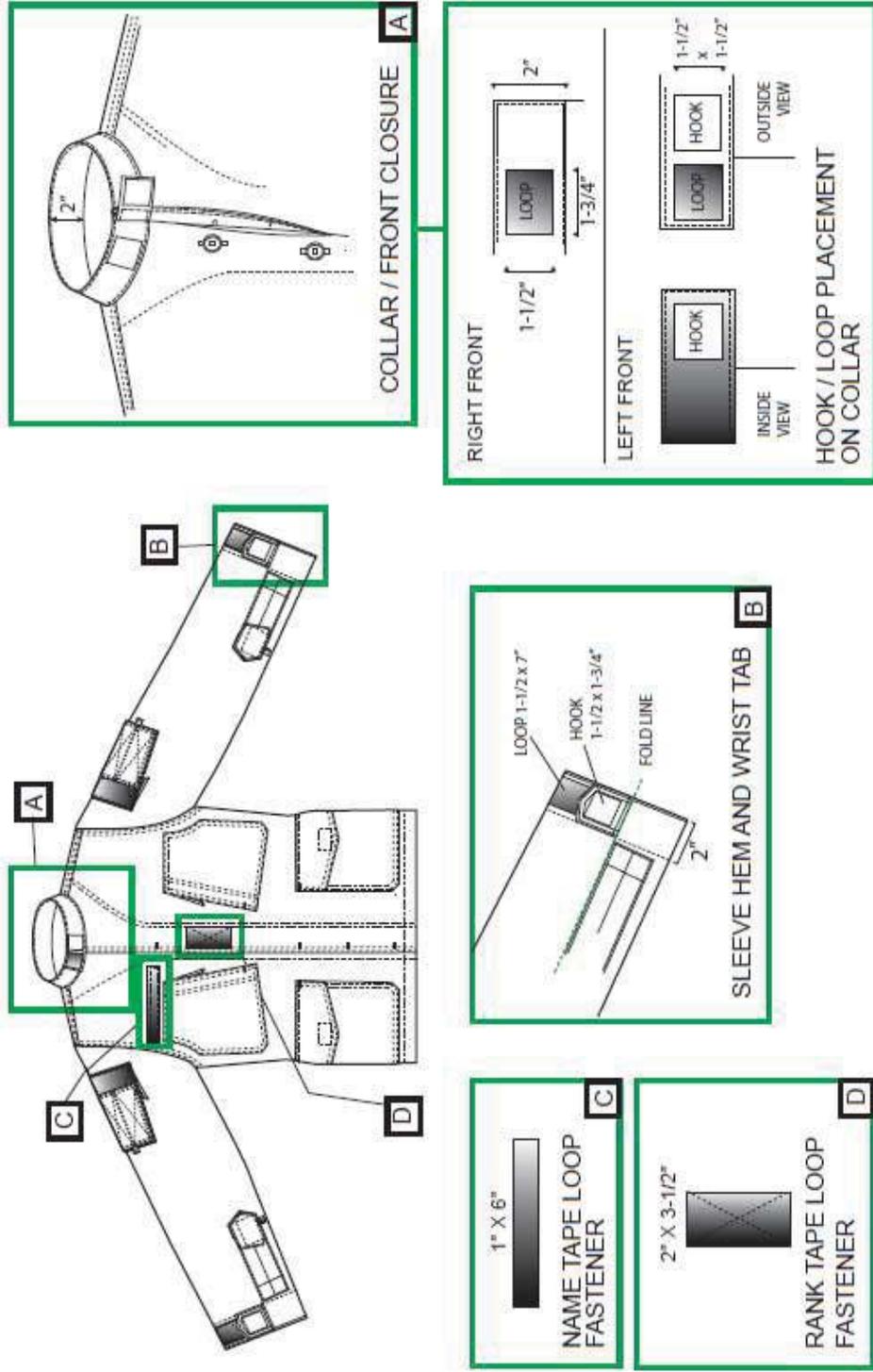


Figure 3: Dimensions of Front Pockets

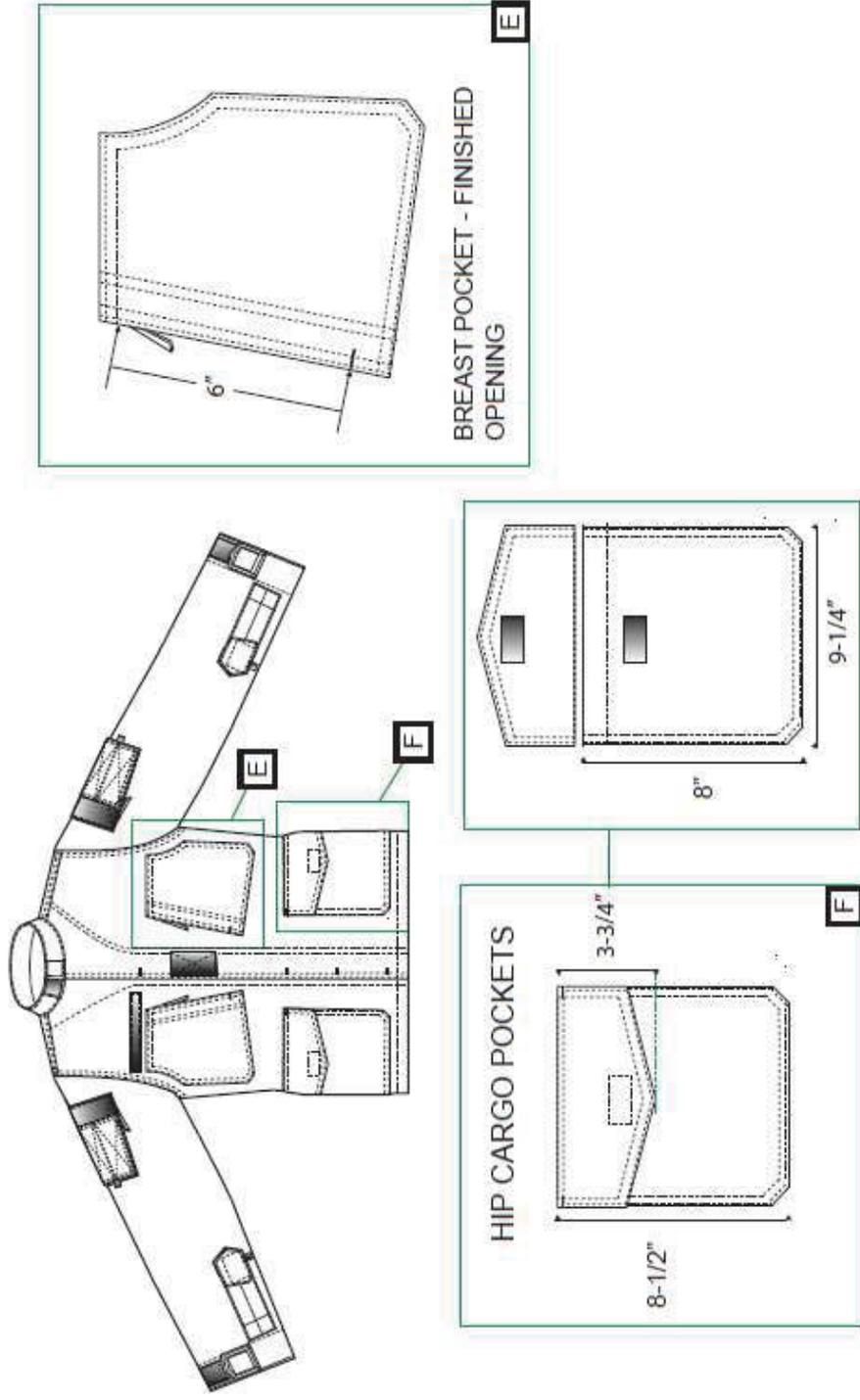


Figure 4: Dimensions of Sleeve Pockets

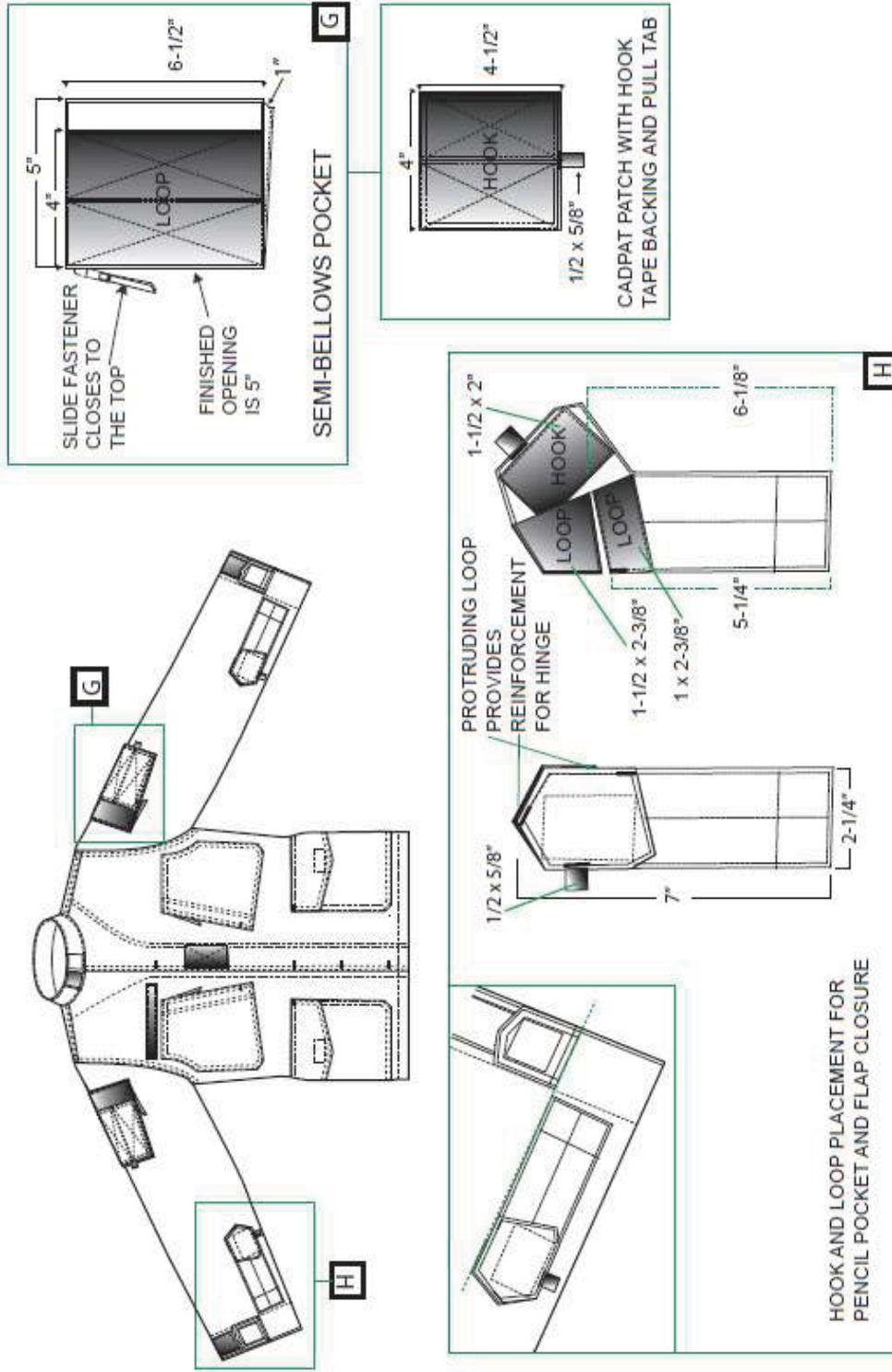


Figure 5: Back View Details

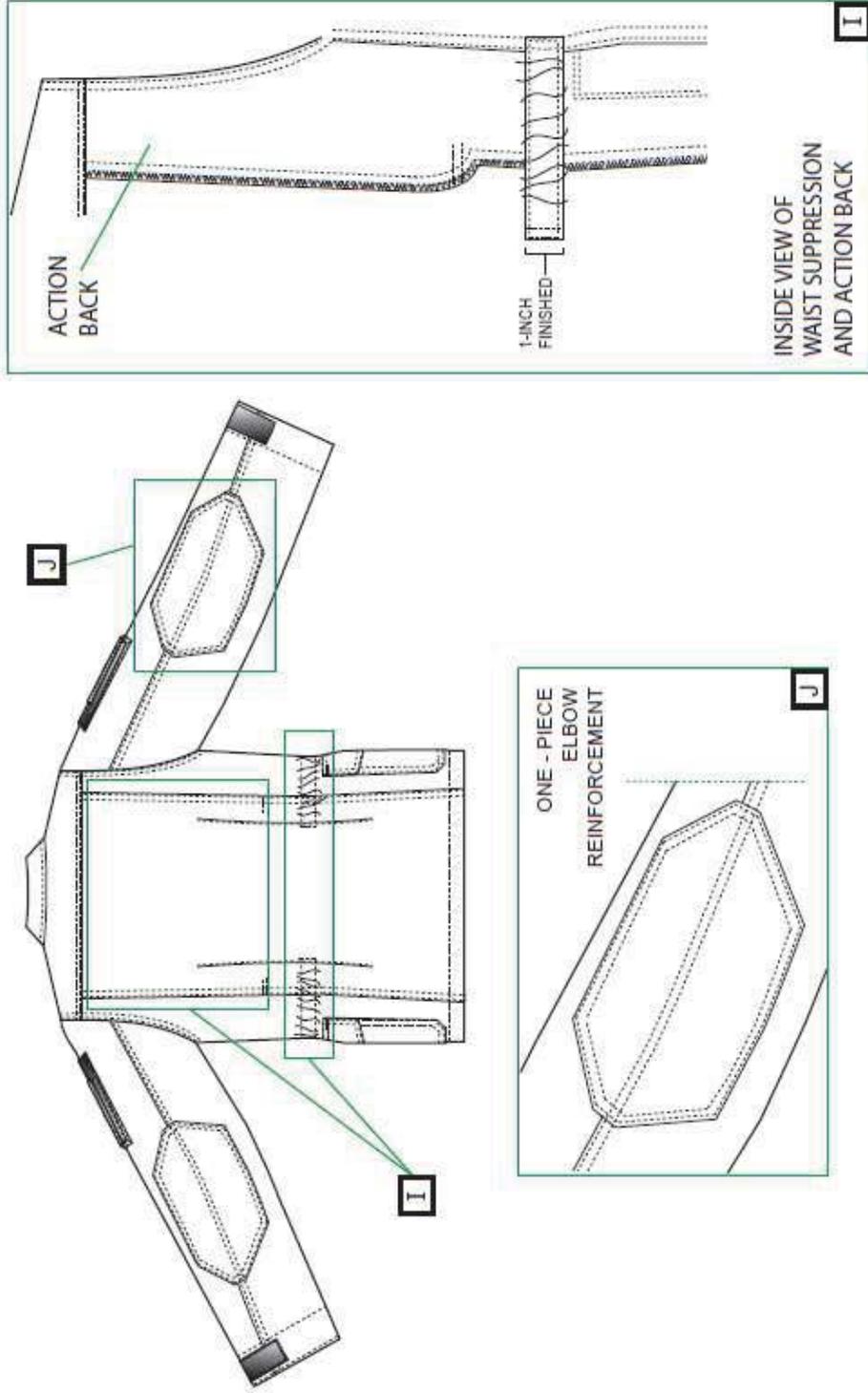


Figure 6: Care and Marking Label

ITEM & CONTRACT INFO	INFORMATION D'ARTICLE & DE CONTRAT
CARE SYMBOLS	ETIQUETTE
USER ID	ID DE L'UTILISATEUR

COAT, SOF DISTINCTIVE SERVICE UNIFORM, MULTICAM®  
 COAT, OSF SERVICE DISTINCTIVE UNIFORMES, MULTICAM®  
 NSN/NNO: 8415-20-XXX-XXXX

**SIZE/TAILLE : 7040**  
 NATO SIZE/TAILLE OTAN : XXXX-XXX  
 CONTRACT NO. / NO. DE CONTRAT: WXXXX-XXXXX ABC  
 CONTRACTOR NAME/NOM D'ENTREPRENEUR: Jones & Company  
 DATE OF / DE MANUFACTURE: MM/YY  
 FIBRE CONTENT: XXXXXXXXXXXXX

  
 50°C

  
 Tumble dry  
 on medium /  
 Séchage par  
 culbutage  
 T/moyenne

  
 Do not  
 iron / Ne  
 pas repasser

  
 Do not  
 bleach / Ne  
 pas javelliser

  
 Do not dry-clean /  
 Ne pas nettoyer  
 à sec

I.D. \_\_\_\_\_

**APPENDIX 2 SCALE OF MEASUREMENTS**

HEIGHT AND CHEST		MEASUREMENTS OF GARMENT (Inches)										
		HEIGHT WITHOUT SHOES	CHEST	GIRTH MEASUREMENTS SLIDE FASTENER CLOSED			FULL LENGTH FROM COLLAR SEAM		SLEEVE		BOTTOM SLEEVE CIRCUM-FERENCE	COLLAR LENGTH (straight across at neck seam)
HEIGHT	CHEST	CHEST	WAIST RELAXED	WAIST EXTENDED	BOTTOM	CENTER FRONT	BACK	BACK WIDTH (Bottom of yoke)	LENGTH AT UNDERARM SEAM	ELBOW CIRCUM-FERENCE 7" FROM UNDERARM POINT	BOTTOM SLEEVE CIRCUM-FERENCE	COLLAR LENGTH (straight across at neck seam)
6432	29-32	42	33	36	42			16		16	14	17 1/4
6436	33-36	46	37	40	46	23 1/2	26 1/2	17	18	16 3/4	14 1/2	18 1/4
6440	37-40	50	41	44	50			18		17 1/2	15	19 1/4
6736	33-36	46	37	40	46			17	19	17 1/4	14 1/2	18 1/4
6740	37-40	50	41	44	50	25 1/2	28 1/2	18		18	15	19 1/4
6744	41-44	54	45	48	54			19	20	18 3/4	15 1/2	20 1/4
6748	45-48	58	49	52	58			20		19 1/2	16	21 1/4
7036	33-36	46	37	40	46			17		17 3/4	14 1/2	18 1/4
7040	37-40	50	41	44	50			18		18 1/2	15	19 1/4
7044	41-44	54	45	48	54	27 1/2	30 1/2	19		19 1/4	15 1/2	20 1/4
7048	45-48	58	49	52	58			20		20	16	21 1/4
7052	49-52	62	53	56	62			21		20 3/4	16 1/2	22 1/4
7336	33-36	46	37	40	46			17		18 1/4	14 1/2	18 1/4
7340	37-40	50	41	44	50			18		19	15	19 1/4
7344	41-44	54	45	48	54	29 1/2	32 1/2	19	21	19 3/4	15 1/2	20 1/4
7348	45-48	58	49	52	58			20		20 1/2	16	21 1/4
7352	49-52	62	53	56	62			21		21 1/4	16 1/2	22 1/4
7640	37-40	50	41	44	50			18		19 1/2	15	19 1/4
7644	41-44	54	45	48	54	31 1/2	34 1/2	19	22	20 1/4	15 1/2	20 1/4
7648	45-48	58	49	52	58			20		21	16	21 1/4
7652	49-52	62	53	56	62			21		21 3/4	16 1/2	22 1/4
		TOLERANCE PLUS OR MINUS		3/4	3/4	1/2	1/2	1/4	1/2	1/2	1/4	1/2

14 July 2017

NOTICE



This documentation has been reviewed by the technical authority and does not contain controlled goods. Disclosure notices and handling instructions originally received with the document shall continue to apply.

AVIS

Cette documentation a été révisée par l'autorité technique et ne contient pas de marchandises contrôlées. Les avis de divulgation et les instructions de manutention reçues originalement doivent continuer de s'appliquer.

**MANUFACTURING DATA  
FOR  
TROUSERS, SOF DISTINCTIVE SERVICE UNIFORM, MULTICAM®**

**1.0 SCOPE**

1.1 Scope

This Manufacturing Data covers the material, design, construction and inspection requirements for the Trousers, Special Operations Forces (SOF) Distinctive Service Uniform, MULTICAM®.

1.2 Intended Use

The Coats are worn with the SOF Distinctive Service Uniform Coats (in accordance with Manufacturing Data at Annex B1) by authorized Canadian Special Operations Forces Command personnel.

1.3 Classification

The Trousers will be supplied in one (1) of the following types as specified in the Contract:

- (a) Type I - Trousers, Special Operations Forces (SOF) Distinctive Service Uniform, MULTICAM®, Cloth, Ripstop, 50/50 Nylon Cotton;
- (b) Type II - Trousers, Special Operations Forces (SOF) Distinctive Service Uniform, MULTICAM®, Cloth, Ripstop, Lightweight Breathable Nylon; and
- (c) Type III - Trousers, Special Operations Forces (SOF) Distinctive Service Uniform, Government Supplied Material.

**2.0 GENERAL**

2.1 Intellectual Property

The information, data, know-how, formulas, algorithms, software, processes, systems, methods, designs, text, works, figures, tables, sketches, photographs, plans, drawings, specifications, samples, reports, names, inventions and/or ideas contained herein (hereinafter "Intellectual Property") is the exclusive property of Her Majesty The Queen in Right of Canada as represented by the Minister of National Defence (hereinafter referred as "DND"). No one has the right to reproduce, disclose, disseminate, or utilize, in any manner or in any form, this Intellectual Property, or any part thereof, without the prior written consent of DND. For further information on the restrictions applicable to this Intellectual Property, or to request consent from DND, please contact the Contracting Authority.

2.2 Applicable Documents

The following documents form part of this Manufacturing Data to the extent specified, and are supportive of this Manufacturing Data when referenced; all other document references are to be considered supplemental information only. In the event of a conflict between the documents referenced and the contents of this Manufacturing Data, then the contents of this Manufacturing Data must take precedence;

14 July 2017

DND Specifications and Standards (provided upon request)

- CF-B-854 Specification for Buttons, Nylon (45 and 30 Ligne)
- D-80-001-055/SF-001 Specification for Label, Clothing and Equipment
- D-83-001-005/SF-001 Specification for Fasteners, Slide, Interlocking

DND Drawings (provided upon request)

- 373118 Button, Nylon, Slotted, 30-ligne
- 8790166 Strap and Button Argt, 30-ligne, Type I
- 2811 Strap and Button Assy 45 ligne
- 389556 Button, Bar, Plastic, 45-ligne

CAN/CGSB Standards (email: [ncr.cgsb-ongc@pwgsc.gc.ca](mailto:ncr.cgsb-ongc@pwgsc.gc.ca))

- CAN/CGSB-4.2-M Textile Test Methods
- CAN/CGSB-4-131 Cotton-Covered or Polyester-Covered, Polyester Thread
- CAN/CGSB-54.1-M Stitches and Seams, Parts I and II
- CAN/CGSB-86.1-2003 Care Labelling of Textiles
- CAN/CGSB-4-139 Polyester Staple Thread
- CAN/CGSB-54.1-M Stitches and Seams, Part I and II
- CAN/CGSB-86.1-2003 Care Labelling of Textiles
- 4-GP-80Ma Cotton Thread

FED Standards (Download Documents: <http://assist.daps.dla.mil/quicksearch/>)

- A-A-55126A Commercial Item Description - Fastener Tapes, Hook and Loop, Synthetic
- MIL-T-8363 Tape and Webbing, Textile, Woven, Nylon
- MIL-PRF-5038 Tape, Textile and Webbing, Textile, Reinforcing, Nylon

2.2.1 Order of Precedence

The order of preference is as follows:

- (a) In the event of inconsistency between contract documents, such as contract, Manufacturing Data, drawing and sealed pattern, the order of precedence shall be contract, Manufacturing Data, drawing and sealed patterns;
- (b) In the event of a conflict between the text of this manufacturing data and the references cited herein, the text of this manufacturing data must take precedence;
- (c) In the event of inconsistency within this manufacturing data, the Contracting Authority must be contacted for clarification; and
- (d) Nothing in this document supersedes applicable laws and regulations, unless a specific exemption has been obtained.

2.3 Definitions

Hook and Loop Fastener	A fastening consisting of two strips of nylon fabric, one having hooked threads and the other a coarse surface, that form a strong bond when pressed together,
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14 July 2017

	trademarked under the name VELCRO®.
MULTICAM®	A proprietary design for a computer generated digital camouflage pattern patented by Crye Precision Ltd.
Slide Fastener	A fastener for locking together two toothed edges by means of a sliding tab, commonly referred to as a zipper.

#### 2.4 Layout Sketches

Schematic layout sketches for the Trousers are included as part of this Annex. The sketches are designed to provide a general layout of the Trousers only. They are not to scale and are not representative of the style, fit, colour scheme or form of the final garment. The following sketches are included in Appendix 1:

- (a) Figure 1: Front and Back View;
- (b) Figure 2: Dimensions of Garment Components;
- (c) Figure 3: Dimensions of Garment Components - Front View (con't);
- (d) Figure 4: Dimensions of Garment Components - Back View;
- (e) Figure 5: Left Trouser Leg Showing Storm Cuff Details; and
- (f) Figure 6: Care and Marking Label.

#### 2.5 Patterns

DND will provide patterns as follows:

- (a) Sealed pattern: DSSPM 128-11 - Converged Trousers, Combat, ECU Lightweight, CADPAT™ (Sealed for construction and design); and
- (b) Paper patterns - Paper patterns for all sizes under Style Code TCLFRD31. Size 7034 (reg/med) will be used for tendering purposes.

Note: The patterns for the Converged Trousers, Combat, ECU Lightweight, CADPAT™ are to be used for the construction of the Coat, SOF Distinctive Service Uniform.

### 3.0 **REQUIREMENTS**

#### 3.1 Design

The design must be in accordance with Sealed Patterns DSSPM 128-11 and must incorporate the following features:

- (a) Loose fitting;
- (b) Two-way slide fastener fly front opening with button and loop assembly and tab closure on waistband;
- (c) Elasticated waistband on each back side;
- (d) Front hip quarter-cut pockets with flap and hook and loop fastener;
- (e) Semi-bellows patch pockets with covered buttoning flaps on side seams, thigh level;

14 July 2017

- (f) Front thigh to knee reinforcement panel with knee pad casing, hook and loop fasteners and pull tab;
- (g) Semi-bellows pocket with double pencil pocket and flap with hook and loop fastener and pull tab;
- (h) Back hip pockets with flap and hook and loop fasteners;
- (i) Reinforced seat;
- (j) Bottom leg hook and loop tab closure, with elasticated drawstring, cord lock and cord pull;
- (k) Storm cuffs; and
- (l) Six (6) belt loops.

Note: Unless otherwise specified, these garments must be governed by the Scale of Measurements at Appendix 2.

### 3.2 Material

The following applies:

- (a) Shell Material - The following applies:
  - i. The shell material for Type I must be Cloth, Ripstop, 50/50 Nylon Cotton in accordance with the specification at Annex C1;
  - ii. The shell material for Type II must be Cloth, Ripstop, Lightweight Breathable Nylon in accordance with the specification at Annex C2; and
  - iii. The shell material for Type III must be the Government Supplied Material;
- (b) Waistband Elastic - The elastic must:
  - i. Be a commercially available knitted elastic in accordance with Table 1; and
  - ii. Be Light Sand in colour;

Table 1: Technical Requirements for Waist Suppression Elastic

Property	Requirement	Minimum	Maximum	Test Method
Materials	60% Polyester 40% Rubber	62% Polyester 38% Rubber	58% Polyester 42% Rubber	N/A
Construction	Knitted	24 cords	28 cords	N/A
Width	3.8 cm (1.5 in)	N/A	N/A	CAN/CGSB-4.2M - 4.1
Weight	49.8-56.7 m/kg	-5%	+5%	CAN/CGSB-4.2M - 5.1
Elongation	125%	-10%	+10%	CAN/CGSB-4.2M - 10

- (c) Slide Fasteners - All slide fasteners must:
  - i. Be Class 3, Type 7;
  - ii. Be plastic, moulded, with locking sliders, long pulls and 100% polyester tape in accordance with D-83-001-005/SF-001;
  - iii. Be Light Sand in colour; and
  - iv. Have tapes as follows:
    - a. Be 0.79 cm (0.31 in) wide in accordance with MIL-T-8363, Type 1; and

14 July 2017

- b. Be Light Sand in colour;
- v. Have webbing for pull tabs and cord ends as follows:
  - a. Be 1.27 cm (0.5 in) wide in accordance with MIL-PRF-5038, Type IV; and
  - b. Be Light Sand in colour;
- (d) Hook and Loop Fastener Tape - The hook and loop fastener tape must (unless otherwise specified):
  - i. Be Type II, Class 1 regular nylon in accordance with A-A-55126A; and
  - ii. Be Light Sand in colour;
- (e) Loop Fastener Tape for Knee Pad Attachment – The loop fastener tape must:
  - i. Be a low profile, sewable, warp knit with no selvage, coatings or stabilizing finishes;
  - ii. Be a soft pliable loop to reduce abrasion from the loop edges on the trousers;
  - iii. Be in accordance with a Type I, Class I of A-A-55126 for dimensional stability after laundering and fray resistance; and
  - iv. With its paired hook, must verify durability to ~1000 cycles (medium life cycle), sheer strength after 3 launderings to 5.0 lbs/sq. inch and peel strength after 3 launderings to 0.5 lbs/sq. inch, as specified in the manufacturer’s data;

*Note: Velcro 3610 has been known to meet the above requirements.*

- (f) Buttons - The buttons must:
  - i. Be nylon, slotted type button in accordance with CF-B-854 and Drawings 373118 389556; and
  - ii. Be Light Sand in colour;
- (g) Thread - The following applies:
  - i. The thread for seaming, stitching, buttonholes and bartacks must:
    - a. Be cotton-covered or polyester-covered, polyester thread (R50Tex) conforming to CAN/CGSB-4.131-M; and
    - b. Be Light Sand in colour;
  - ii. The thread for serging and/or seaming and serging must:
    - a. Be polyester staple thread (R40Tex) conforming to CAN/CGSB-4.139; and
    - b. Be Light Sand in colour;
- (h) Bottom Leg Drawcord and Lock - The following applies:
  - i. The drawcord must:
    - a. Be commercially available elastic as follows:
      - 1. Round elastic looping, polyester covered rubber;
      - 2. Diameter:  $3.5 \pm 0.2$  mm ( $0.14 \pm 0.008$  in);
      - 3. Cover Yarn: 600D acetate or polyester;
      - 4. Sheath: 16 carriers;
      - 5. Core: 34’s square cut rubber, 16 ends;
      - 6. Picks per centimetre: 28.37; and
      - 7. Stretch:  $190 \pm 10\%$ ;
    - b. Have finished ends minimum of 19.1 mm (0.75 in) in length, hot cut to prevent unravelling, with a sewn on web pull tab; and
    - c. Be black in colour;
  - ii. The drawcord lock must:
    - a. Be a commercially available acetyl, low profile barrel-type, self-locking with a stainless steel spring and an attachment slot as follows:

14 July 2017

1. Total height relaxed: 28.6 mm (1.125 in);
  2. Total height compressed: 24.6 mm (0.97 in);
  3. Body height: 19.1 mm (0.75 in);
  4. Width bottom: 14.3 mm (0.57 in);
  5. Thickness: 10.2 mm (0.4 in);
  6. Attachment slot: 10.9 mm x 1.3 mm (0.43 in x 0.05 in); and
  7. Tolerance:
    - a. Decimal:  $\pm 0.76$  mm (0.03 in); and
    - b. Angular:  $\pm 1^\circ$ ;
- b. Be black in colour;

*Note: GTSP Cordloc 350-6000-6023 from ITW Nexus USA (230 West Gerry Drive, Wood Dale, Illinois 60191, PH: 630-595-1888) has been known to meet these requirements.*

(i) Eyelets and Washers - The eyelets and washers must:

- i. Be brass or aluminum;
- ii. Be black in colour;
- iii. Have a lusterless chemical finish; and
- iv. Have dimensions as follows:
  - a. Eyelets:
    1. Outside Diameter of Flange: 8.9 mm (0.35 in);
    2. Inside Diameter Before Setting: 4 mm (0.157 in);
    3. Inside Diameter When Set: 4.3 mm (0.17 in); and
    4. Tolerance: 0.2 mm (0.008 in);
  - b. Washers:
    1. Outside Diameter of Flange: 8.9 mm (0.35 in);
    2. Inside Diameter Before Setting: 5 mm (0.2 in);
    3. Inside Diameter When Set: 4.3 mm (0.17 in); and
    4. Tolerance: 0.2 mm (0.008 in);

(j) All material must be sourced and supplied by the Contractor.

3.3 Sizing

The Trousers must be available in the following sizes in accordance with the Scale of Measurements at Appendix 2:

Inseam (cm)	Waist (cm)					
	26	30	34	38	42	46
64	X	X	X			
67		X	X	X	X	
70		X	X	X	X	X
73		X	X	X	X	X
76			X	X	X	X

The Trousers must also be available in custom sizes where the above sizes are not suitable.

3.4 Cutting

The following applies:

14 July 2017

- (a) The Trousers must be cut using duplicates of Government supplied paper patterns as follows:
  - i. Paper patterns include seam allowance but do not include 'make-up' allowance; and
  - ii. The Contractor is responsible for adding 'make-up' allowance to suit their production methods without changing the design, grade or requirements for the Trousers;

Note: Paper patterns will not be supplied to the Contractor for special sizes.

- (b) The shell parts of the Trousers must:
  - i. Be cut and used in accordance with best commercial standards;
  - ii. Be cut in the direction of the warp as shown on the paper patterns; and
  - iii. Be cut from the same piece of shell material with the exception of the storm cuffs, fly facing, buttoning flaps, buttoning flap facings and pocketing which may be cut from separate lay or ends of shell material.

### 3.5 Sewing

The following applies:

- (a) Seams must be as follows:
  - i. Conform to CAN/CGSB-54.1-M;
  - ii. Be a minimum of 9.5 mm (0.375 in) wide unless otherwise specified;
  - iii. Double-lapped seams conform to numerical designation 2.04.03 of CAN/CGSB-54.1-M, either lock or chain stitched with the needles set 6.4 mm (0.25 in) apart.
- (b) Stitching must be as follows:
  - i. Be either lockstitched Type 301 or chain stitch Type 401 (unless otherwise specified) conforming to CAN/CGSB-54.1-M, having not less than eight (8) nor more than ten (10) stitches per 2.5 cm (1 in);
  - ii. For double-needle stitched, needles set 6.4 mm (0.25 in) apart;
  - iii. Ends of all lockstitched seams and stitchings, also breaks in thread, securely backstitched;
  - iv. Present a regular even appearance without fabric pucker and be free from skips that may result from faulty machine tension or other stitching malfunctions;
- (c) Where seaming, turning and stitching is specified, the edges must be properly worked out before stitching;
- (d) When serging, all exposed raw edges must be finished with any 500 series stitches, with not less than ten (10) stitches per 2.5 cm (1 in);
- (e) Where seaming and serging is specified, this may be done in one or two operations;
- (f) Buttonholes must:
  - i. Be gimp reinforced eyelet type, with not less than 22 stitches per 2.5 cm (1 in); and
  - ii. Have ends fishtailed or bartacked; and
  - iii. Have a buttonhole gimp as follows:
    - a. 100% cotton, 3-cord soft finish, R50Tex conforming to 4-GP-80Ma; and
    - b. Be Light Sand in colour;
- (g) Button and strap assemblies (where specified) must:
  - i. Be threaded with a strap of shell material in accordance with Drawing 8790166 for 30-ligne buttons or Drawing 2811 for 45-ligne buttons; and
  - ii. Have straps as follows:

14 July 2017

- a. Seam type numerical designation 8.06.02 or 8.19.01;
  - b. Finished width of 15.9 mm (0.625 in); and
  - c. Attached with bartacks
- (h) Hook and loop fastener tape must:
- i. Be stitched around all edges 3.2 mm (0.125 in) gauge, taking care to ensure stitching is formed into the hook and loop portion of the tape;
  - ii. For tapes wider than 2.5 cm (1 in) stitched around all edges and through the centre or have a 'X' enclosed in the box; and
  - iii. For best results, a ball point needle, size 110 (#18) should be used;
- (i) Tape for slider pulls must:
- i. Be hot cut, fed through the slider and secured in place by backstitching; and
  - ii. Be no less than 5 cm (2 in) long;
- (j) Webbing for pull tabs and cord ends must:
- i. Be folded and stitched around all edges;
  - ii. Be no less than 1.6 cm (0.625 in) long; and
  - iii. Have pull tabs secured in their respective position by a bartack, with exception of the cord end which is to be secured by backstitching;
- (k) Bartacks, unless specified otherwise, must be 9.5 mm (0.375 in) long and must have not less than twenty (20) cover stitches per 2.5 cm (1 in).

### 3.6 Label

The Trousers must include a Care and Marking Label (see Figure 6) as follows:

- (a) Positioned at the top of the inside left back hip pocket bag and stitched 3.2 mm (0.125 in) gauge around all edges;
- (b) Light sand in colour with black printing in characters not less than 3.2 mm (0.125 in) nor more than 6.4 mm (0.25 in) in height, with the exception of the size identification which must be twice the height;
- (c) Care symbols in accordance with CAN/CGSB-86.1-2003 including the following:
  - i. Table 1 – Washing – symbol 6;
  - ii. Table 2 – Bleaching – symbol 3;
  - iii. Table 3 – Drying – symbol 3;
  - iv. Table 4 – Ironing/Pressing – symbol 5; and
  - v. Table 5 – Professional Textile Care – symbol 3;
- (d) Marking label in accordance with D-80-001-055/SF-001 including the following:
  - i. NATO Stock Number as required for each size;
  - ii. Size by height and chest;
  - iii. NATO size designation;
  - iv. Contract Number;
  - v. Care Symbols (in black ink); and
  - vi. Fibre content (Nylon, Cotton, etc.);

### 3.7 Construction

The Trousers are to be manufactured in accordance with the following requirements:

- (a) **Waist** - The Trouser must have a waist as follows:
- i. Waistband facings seamed to the top of the trousers, turned and stitched 1.6 mm (0.0625 in) gauge along the top edge through all layers;
  - ii. One (1) piece of elastic to be inserted between each of the left and right side waistband facings and the trousers, centered over a side seam and stitched in place across both ends, through all layers;
  - iii. Bottom edge of each facing turned under and stitched 1.6 mm (0.0625 in) gauge through all layers;
  - iv. Include a dart in each back panel, folded toward the centre back and topstitched 1.6 mm (0.0625 in) gauge on the outside;
  - v. Include a seat reinforcement patch, placed face up on the outside of the back panels, the edges folded under, excluding the inseam and seat seams, and double-needle stitched through all layers;
  - vi. Have a center front fly as follows:
    - a. Have a two-way slide fastener;
    - b. Have a right side as follows:
      1. Fly curtain plies seamed together across the top and along the front edge, turned and stitched 1.6 mm (0.0625 in) gauge. and the back edge serged;
      2. Front fly opening serged;
      3. Right half of the slide fastener and the back edge of the curtain seamed, turned and stitched 1.6 mm (0.0625 in) gauge to the right fly opening with the top stop of the slide fastener 3.8 cm (1.5 in) below the top edge of the waistband; and
      4. End of the slide fastener tape to be included in the above stitching;
    - c. Have a left side as follows:
      1. Include a double buttonhole tab closure as follows:
        - a. Made of two plies of shell material;
        - b. Finished with a facing, with the back edge of the facing serged;
        - c. Finished tab sandwiched between the facing and the trouser piece; and
        - d. Include a 30-ligne buttonhole and a double row of stitching;
      2. Left side of the slide fastener must be stitched to the facing with two (2) rows of stitching placed 1.6 mm (0.0625 in) and 6.3 mm (0.25 in) gauge, or with a double-needle stitch;
      3. End of the slide fastener tape to be included in the above stitching; and
      4. Facing sewn to the fly opening, turned and top stitched through all layers 1.6 mm (0.0625 in) gauge along the front and across the top;
  - vii. Have a 30-ligne button and strap assembly as follows:
    - a. Centred in height on the outside of the right waistband;
    - b. Positioned as shown on Figure 2; and
    - c. Button assembly on the right side positioned to effect proper closure with the buttonhole tab on the left side;
  - viii. Have belt loops as follows:
    - a. Have six (6) belt loops as follows:
      1. One (1) on each waistband front, 8.9 cm (3.5 in) from center front (total two (2));
      2. One (1) on each waistband back, 6.3 cm (2.5 in) from center back (total two (2)); and
      3. One (1) placed over the each side seam (total two (2));
    - b. Seamed, turned and stitched 6.4 mm (0.25 in) gauge;

- c. Each positioned on the waistband with the ends turned under and bartacked in place across the full width; and
- d. Have a finished effective length of 5.4 cm (2.25 in);

**Note: The front fly must lay flat, without pulling or bunching when the waistband is fully extended.**

(b) **Seams** - The Trousers must have seams as follows:

- i. The crotch seamed as follows:
  - a. Fronts joined at the crotch below the fly opening;
  - b. Seam allowance pressed towards the left side and stitched to the bottom portion of the fly curtain 1.6 mm (0.0625 in) gauge from the original seam;
  - c. Fly facing stitched to the front 4.5 cm (1.25 in) from the front edge at the top and following the curve of the facing at the bottom, and continue along the crotch seam to the inseam 6.3 mm (0.25 in) gauge; and
  - d. Bartacks as follows:
    - 1. Across the bottom of the fly opening; and
    - 2. On the inside of the trousers, just above the bottom stop of the slide fastener, sewn on through all layers;
- ii. The seat seamed as follows:
  - a. Trousers joined together at the seat;
  - b. Seam 9.5 mm (0.375 in) at the crotch and widen gradually to 3.8 cm (1.5 in) at the top; and
  - c. Top corners of the seat seam allowance stitched or bartacked to the back waistband through all layers;
- iii. The backs and fronts joined at the inseam with a continuous double-lapped seam with the back overlapping the front on the outside; and
- iv. The fronts and backs stitched together as follows:
  - a. Along the side seam with a double lapped seam; and
  - b. Front overlapping the back on the face side of the trousers;

(c) **Pockets** - The Trousers must have pockets as follows:

- i. **Front Hip Pockets** - A quarter cut pocket with a hook and loop closing flap at the side of each front as follows:
  - a. Pocket bag as follows:
    - 1. Folded, seamed, turned and stitched 6.4 mm (0.25 in) gauge along the back edge and bottom;
    - 2. Front pocket edge then stitched to the pocket bag 1.6 mm (0.0625 in) above and below to the pocket opening; and
    - 3. Stitched to its designated front pocket opening, turned, and finished with a double row of stitching;
  - b. Pocket opening as follows:
    - 1. Finished length of the opening of 17.7 cm (7 in); and
    - 2. Bartacked at the top and bottom;
  - c. Loop fastener tape as follows:
    - 1. Positioned as per the paper pattern, and stitched through the pocket front and front pocket bag, ensuring stitching is formed into the loop portion of the tape;
    - 2. 2.5 cm (1 in) width; and
    - 3. 3.8 cm (1.5 in) length;
  - d. Flap as follows:
    - 1. Constructed from two (2) plies of shell material;

2. With right sides together, the plies seamed along the outside edge, turned and stitched 6.3 mm (0.25 in) gauge;
  3. Placed on the back pocketing in line with the pocket opening and stitched in place, turned and stitched 6.4 mm (0.25 in) gauge; and
  4. Include a hook tape as follows:
    - a. 2.5 cm (1 in) width;
    - b. 3.8 cm (1.5 in) length; and
    - c. Positioned according to the paper pattern such that it lays flat when closed; and
    - d. Stitched in place, ensuring stitching is formed into the hook portion of the tape;
- ii. Back Hip Pockets - Placed on each back panel as follows:
- a. A welt of shell fabric folded in half, stitched across the ends, turned and stitched 6.3 mm (0.25 in) gauge along ends and folded edge;
  - b. Pocket bag folded up wrong sides together, seamed along each side, turned and stitched 6.3 mm (0.25 in) gauge along each side and across the bottom;
  - c. The flap, welt and pocket bag stitched to the pocket opening of their respective back panel, the opening cut open;
  - d. Assembly turned to the inside and stitched around the opening 1.6 mm (0.0625 in) gauge such that the raw edges are completely enclosed and the top of the pocket is included in the waistband;
  - e. Bartack through all thicknesses at each end of the pocket opening;
  - f. Ends of the welt stitched to the pocket flap with 19 mm (0.75 in) bartacks;
  - g. Two (2) loop fastener tapes as follows:
    1. Stitched to the outside pocket portion, effecting proper closure with the flap, ensuring stitching is formed into the loop portion of the tape;
    2. 2.5 cm (1 in) width; and
    3. 3.8 cm (1.5 in) length;
  - h. Flap as follows:
    1. Constructed from two (2) plies of shell material;
    2. With right sides together, the plies seamed along the outside edge, turned and stitched with a double row of stitching; and
    3. Include two (2) pieces of hook tape as follows:
      - a. 2.5 cm (1 in) width;
      - b. 3.8 cm (1.5 in) length; and
      - c. Positioned according to the paper pattern such that it lays flat when closed; and
      - d. Stitched in place, ensuring stitching is formed into the hook portion of the tape;
- iii. Semi-Bellows Pockets - Semi bellows type patch pockets, with a bevelled front bottom corner, located on each side seam at thigh level as follows:
- a. Top edge of the pocket folded down 5 cm (2 in), raw edge turned under and stitched 1.6 mm (0.0625 in) gauge to form a 4.1 cm (1.6 in) hem, sides and bottom edges serged;
  - b. Bellows cuts seamed at 9.5 mm (0.375 in) gauge to form the box corners;
  - c. Two (2) eyelets placed at the bottom of each pocket;
  - d. Back and bottom edges of the pocket folded in line with the corners and stitched 1.6 mm (0.0625 in) gauge to form the walls of the pocket;
  - e. A 45-ligne button and strap assembly sewn to the pocket, perpendicular to the pocket opening, effecting proper closure with the pocket flap;
  - f. Each pocket placed on their respective leg as follows:

1. With back and bottom edges of the pocket folded under, the pocket stitched 1.6 mm (0.0625 in) gauge, beginning 2.5 cm (1 in) from the back top edge and ending at the bottom bevelled edge of the front pocket;
  2. With the front pocket edge turned under and the bottom of the bevelled corner pleated to form a bellows, the pocket stitched 1.6 mm (0.0625 in) gauge beginning 2.5 cm (1 in) from the front top edge and ending 5 cm (2 in) behind the front pocket edge;
  3. Top of the pocket pressed up and top back edge folded down to form a pleat;
- g. Covered buttoning flap as follows:
1. Constructed from shell material;
  2. Consist of a flap part and a buttoning flap part;
  3. With right sides together, the buttoning flap and buttoning flap facing seamed along the buttoning opening, turned inside out with corners properly worked out and stitched 6.3 mm (0.25 in) gauge;
  4. A vertical buttonhole to fit a 45-ligne button placed 15.9 mm (0.625 in) from the pointed end;
  5. With right sides together, the buttoning flap facing and flap facing seamed along each side of the flap facing at 3.2 mm (0.125 in) gauge (Only the facings to be caught in the stitching);
  6. A bartack placed diagonally at both corners of the opening, through all layers;
  7. With right sides together, the flap and flap facings seamed along the outside edge, turned and stitched 6.3 mm (0.25 in) gauge, with the buttoning flap sandwiched between the flap pieces during this operation and partially caught in the seam;
  8. Each flap centered above a semi-bellows pocket, directly over the pocket stitching, seamed, folded down and stitched 6.3 mm (0.25 in) gauge to enclose raw edge; and
  9. Top corners of the pocket secured to the pocket flap with a 19.1 mm (0.75 in) long row of stitching or a bartack;
- iv. Lower Semi-Bellows Pockets - A semi-bellows type pocket positioned on each side leg, in the knee pad casing area, as follows:
- a. Top edge of the pocket folded down raw edge turned under and stitched to form a hem, sides and bottom edges serged;
  - b. Bellows corner stitched and folded edges topstitched at 1.6 mm (0.0625 in) gauge;
  - c. Bottom of the pocket to line up as closely as possible to the knee pad casing opening, as indicated on the paper pattern;
  - d. Back and bottom edges of the pocket folded in line with the corners and stitched 1.6 mm (0.0625 in) gauge to form the walls of the pocket;
  - e. Front edge of the pocket secured through all layers with a line of stitching;
  - f. Two (2) loop fastener tapes as follows:
    1. Stitched to the outside pocket portion, effecting proper closure with the flap, ensuring stitching is formed into the loop portion of the tape;
    2. 2.5 cm (1 in) width; and
    3. 3.8 cm (1.5 in) length;
  - g. Flap as follows:
    1. Constructed from one (1) ply of shell material;
    2. Folded and topstitched;

3. Include a web pull tab centred and sandwiched between the hook tape and the outer flap edge; and
  4. Hook tape as follows:
    - a. 2.5 cm (1 in) width;
    - b. 8.9 cm (3.5 in) length; and
    - c. Positioned according to the paper pattern such that it lays flat when closed; and
    - d. Stitched in place, ensuring stitching is formed into the hook portion of the tape;
  - h. Double pencil pockets as follows:
    1. Turned and stitched at both ends;
    2. Sides and bottom edges serged; and
    3. Folded and stitched at 1.6 mm (0.0625 in) to the front portion of the semi bellows pocket, as indicated on the paper pattern;
- (d) **Knee Pad Casing** – A removable knee pad casing incorporated into the front knee reinforcement panel as follows:
- i. Bottom edge of the reinforcement panel turned under and stitched, to form a 15 cm (6 in) opening with a web pull tab centred and sandwiched between the reinforcement piece and a hook tape as follows:
    - a. 2.5 cm (1 in) width; and
    - b. 15 cm (6 in) length;
  - ii. Two (2) pieces of loop tape stitched to the trouser piece, positioned for proper closure of the knee pad casing as follows:
    - a. 2.5 cm (1 in) width; and
    - b. 7 cm (2.75 in) length;
  - iii. Sides of the reinforcement piece to have a 6.3 mm (0.25 in) ease at the bottom edge;
  - iv. Edges line up with the inseam and out seam of the front piece;
  - v. Two (2) layers to be stitched together, so that the ease is towards the centre;
  - vi. A piece of soft loop tape stitched to the inside of the reinforcement piece to secure the knee pad as follows:
    - a. 5 cm ( 2 in) width;
    - b. 15 cm (6 in) length; and
    - c. Black in colour;
  - vii. A 15 cm (6 in) single row of stitching perpendicular to the bottom edge in accordance with the paper pattern; and
  - viii. Reinforced on both ends with bartacking through all layers including hook and loop;
- (e) **Leg bottom** - The Trousers must have leg bottoms as follows:
- i. Include one (1) eyelet positioned at the back of each leg;
  - ii. Include an elasticised suppression drawcord as follows:
    - a. Secured, by backstitching, on the inside of the casing at the front tab stitch line;
    - b. Threaded through the eyelet; and
    - c. Secured by a cord lock as follows:
      1. Attached by a loop of shell fabric or black webbing loop;
      2. End of the cord threaded through the cord lock;
      3. Have a cord end of webbing, folded and stitched on all edges; and
      4. Joining end backstitched, not bartacked;
  - iii. Bottom of each leg turned up, the raw edge turned under and top stitched 1.6 mm (0.0625 in) gauge to form a hem 3.8 cm (1.5 in) deep;
  - iv. Loop tape positioned on the hemline as follows:

14 July 2017

- a. 2.5 cm (1 in) width; and
- b. 17.5 cm (7 in) length;
- v. Adjustor tab as follows:
  - a. Constructed of one (1) piece of shell fabric folded, finishing at 8.9 cm x 3.2 cm (3.5 x 1.25 in) positioned to ensure proper leg adjustment with the loop;
  - b. Include a hook fastener tape as follows:
    - 1. 2.5 cm (1 in) width;
    - 2. 7.5 cm ( 3 in) length; and
    - 3. Stitched around three (3) edges and at 12.7 mm (0.5 in) at the raw edge;
- vi. Storm cuffs as follows:
  - a. Serged around all edges and sewn at the inseam;
  - b. Sewn to the inside of each leg with one (1) row of stitching 3.2 mm (0.125 in) gauge from the top serged edge of the storm cuff such that the seam in the storm cuff is aligned with the inseam of the trousers;
  - c. Bottom edge of the storm cuff to extend 5 cm (2 in) below the finished leg bottom;
  - d. Include a 30-ligne button and strap assemblies as follows:
    - 1. One (1) centered across the opened seam immediately below the 'V' at the top of the cuff; and
    - 2. One (1) located opposite the first at the top of the cuff;
  - e. Corresponding buttonholes to be located 12.7 mm (0.5 in) above the bottom of the cuff.

APPENDIX 1 LAYOUT SKETCHES

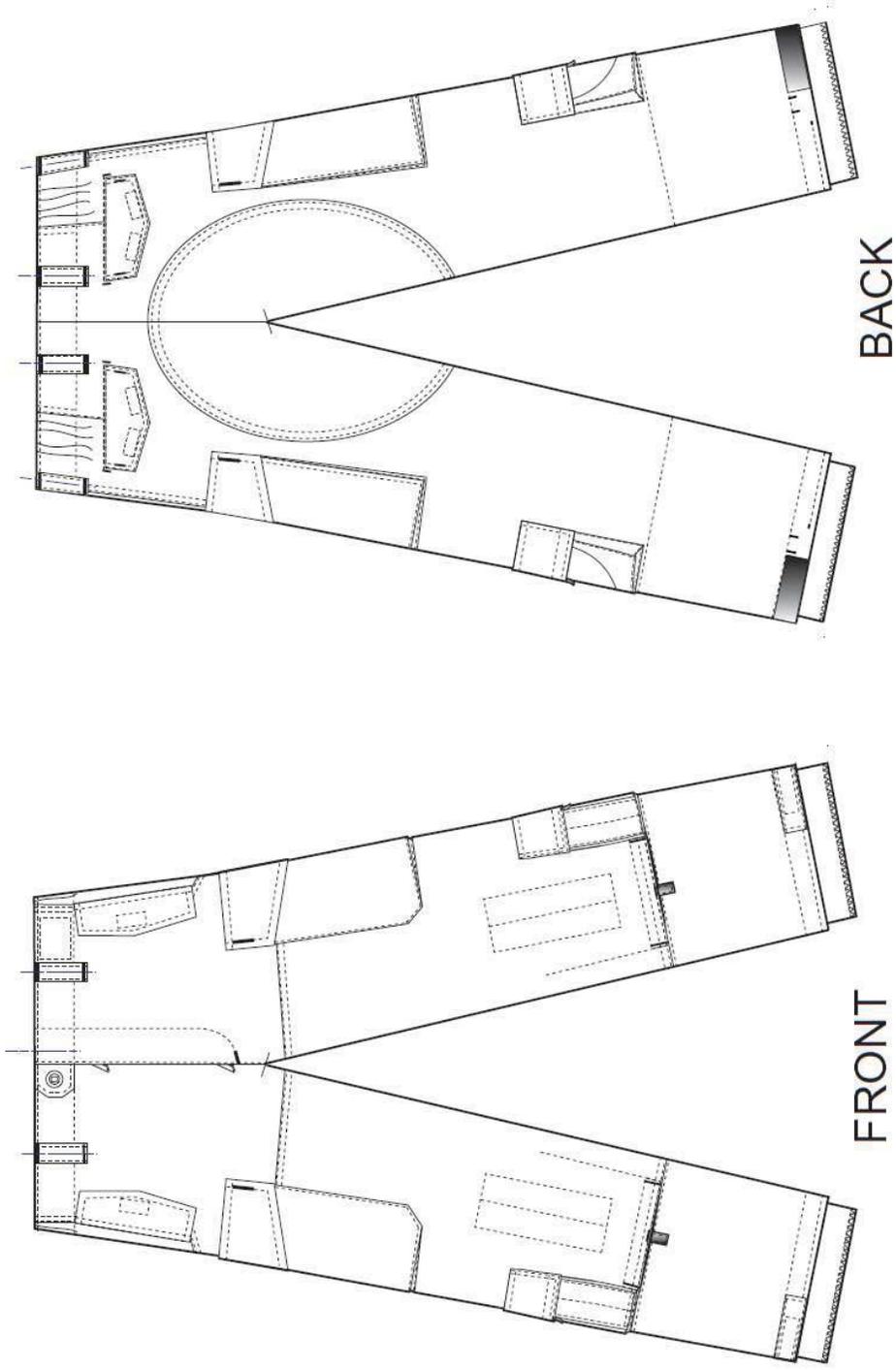


Figure 1: Front and Back View

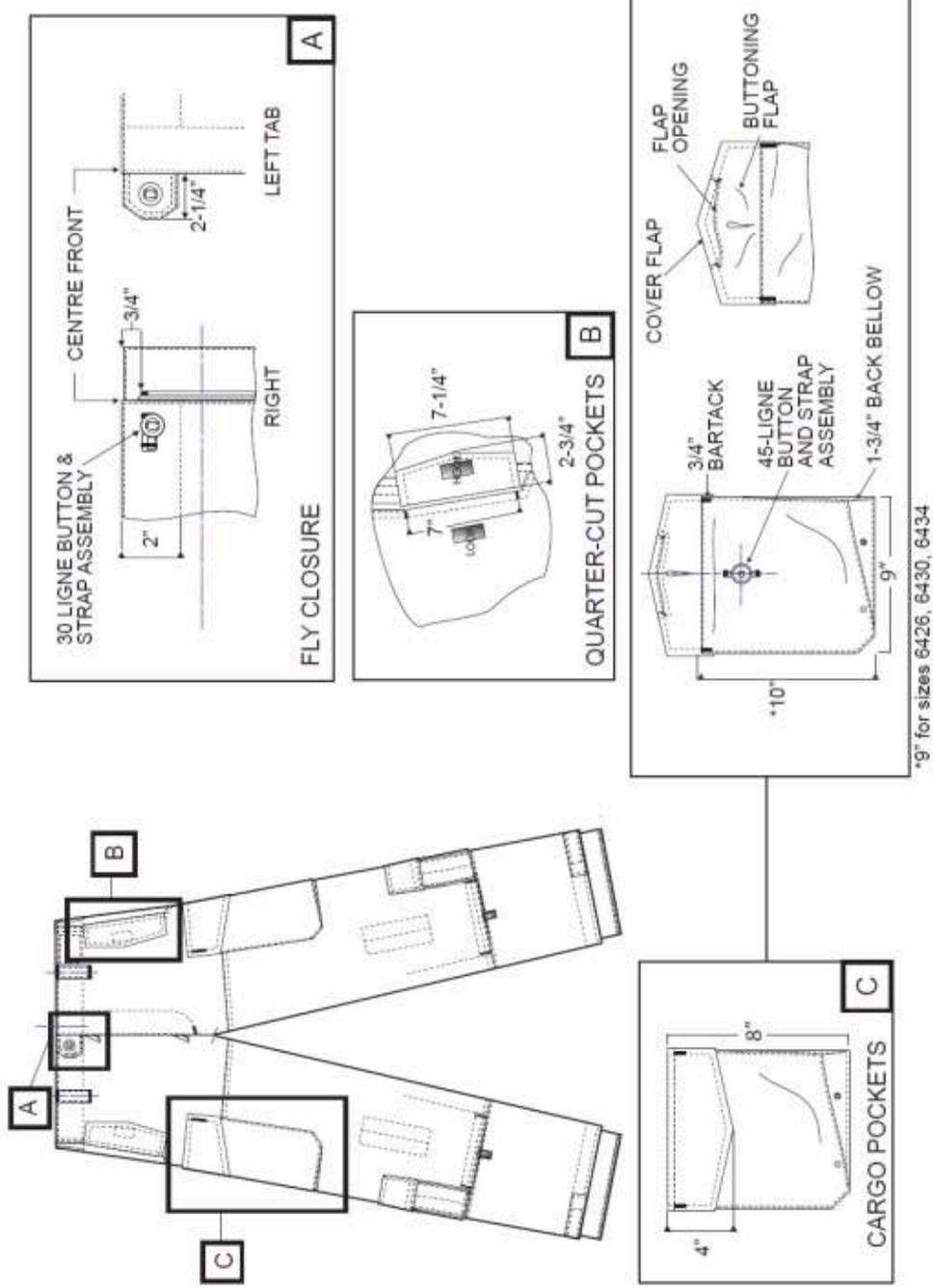


Figure 2: Dimensions of Garment Components - Front View

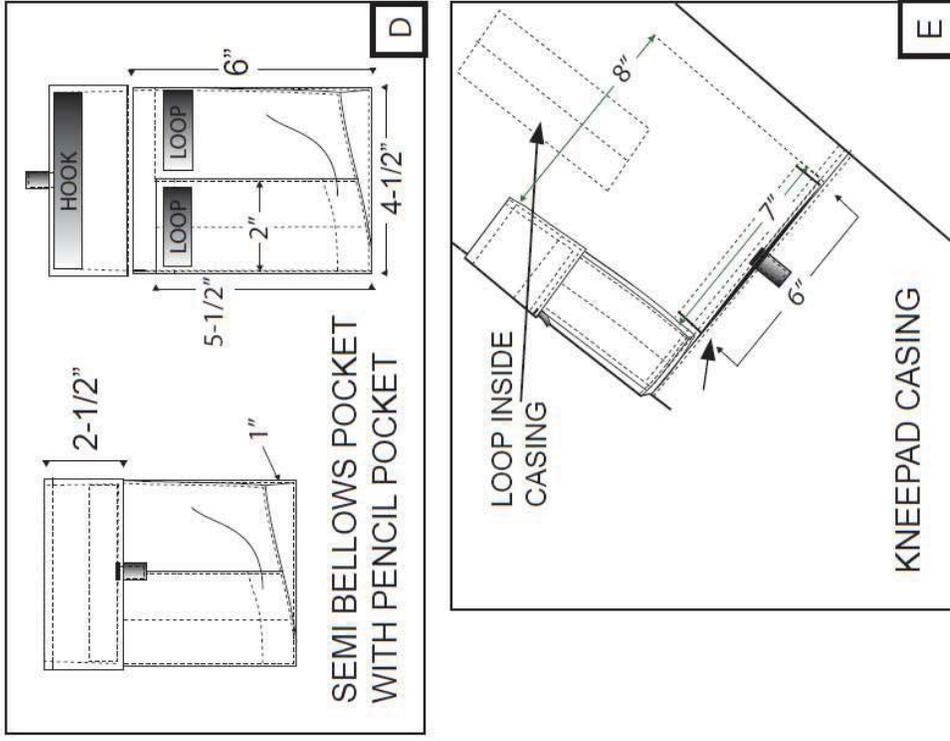


Figure 3: Dimensions of Garment Components - Front View (cont)

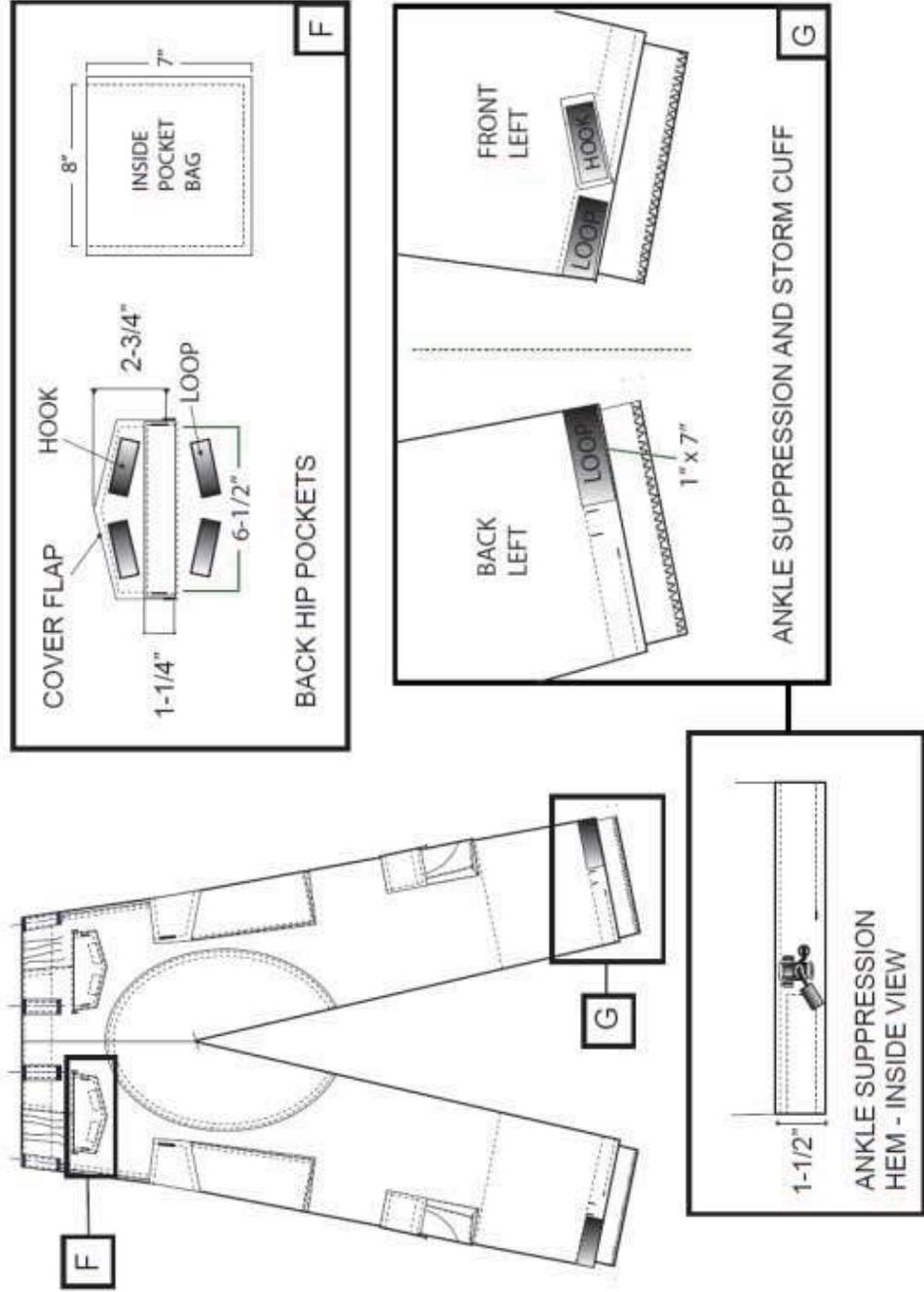


Figure 4: Dimensions of Garment Components - Back View

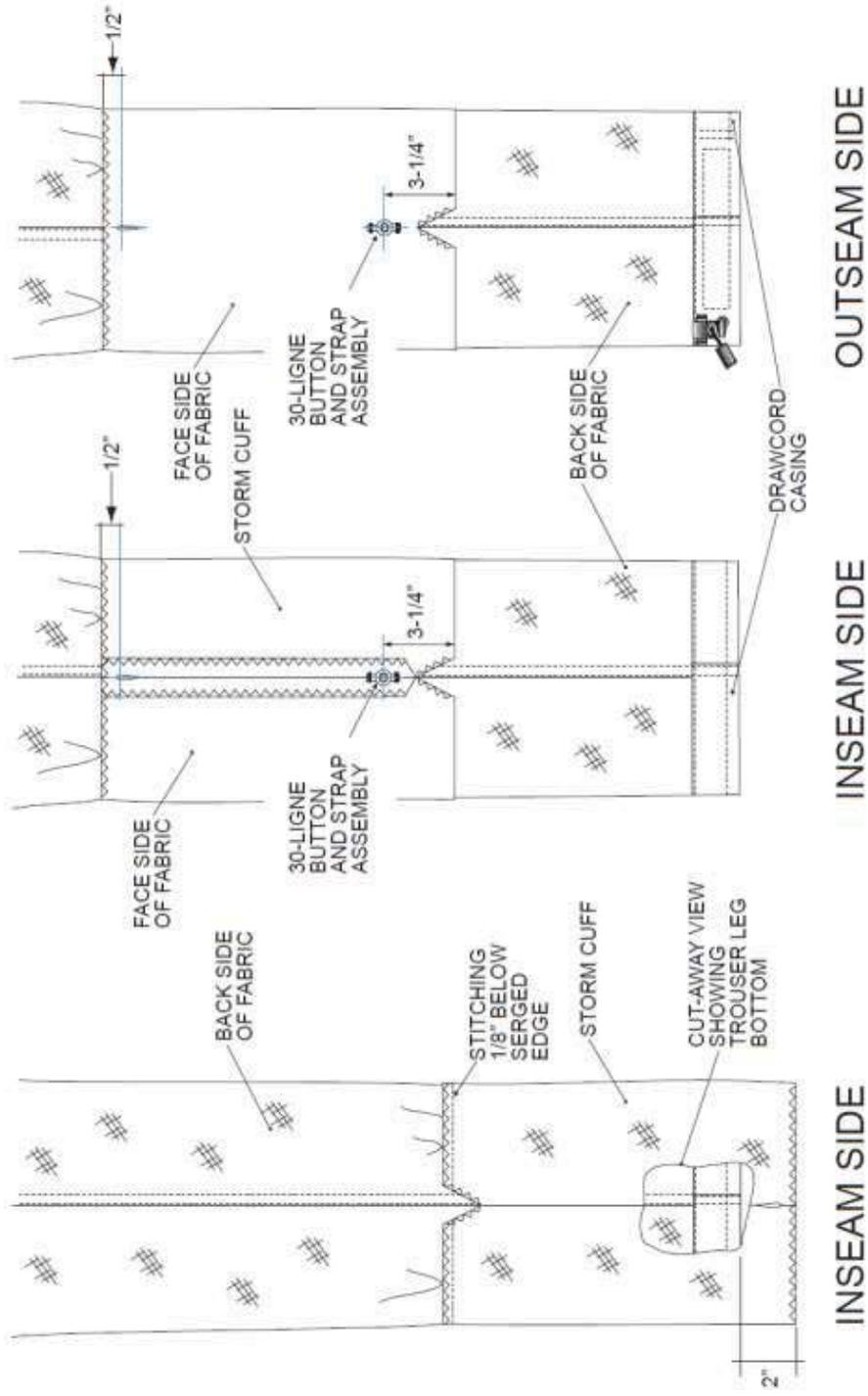


Figure 5: Left Trouser Leg Showing Storm Cuff Details

ITEM & CONTRACT INFO	INFORMATION D'ARTICLE & DE CONTRAT	<p>TROUSERS, SOF DISTINCTIVE SERVICE UNIFORM, MULTICAM®                  PANTALONS, OSF SERVICES DISTINCTIVE UNIFORMES, MULTICAM®</p> <p>NSN/NNO: 8415-20-XXX-XXXX</p> <p><b>SIZE/TAILLE : 7034</b></p> <p>NATO SIZE/TAILLE OTAN : XXXX-XXX</p> <p>CONTRACT NO./ NO. DE CONTRAT: WXXXX-XXXXX ABC</p> <p>CONTRACTOR NAME/NOM D'ENTREPRENEUR: Jones &amp; Company</p> <p>DATE OF / DE MANUFACTURE: MM/YY</p> <p>FIBRE CONTENT: XXXXXXXXXXXXX</p> <p>50°C   Tumble dry on medium / Séchage par culbutage T/moyenne</p> <p> Do not iron / Ne pas repasser</p> <p> Do not bleach / Ne pas javeliser</p> <p> Do not dry-clean / Ne pas nettoyer à sec</p>
CARE SYMBOLS	ETIQUETTE	
USER ID	ID DE L'UTILISATEUR	I.D. _____

Figure 6: Care and Marking Label

**APPENDIX 2 SCALE OF MEASUREMENTS**

HEIGHT AND WAIST	MEASUREMENTS OF BODY			GIRTH MEASUREMENT (CLOSED)					MEASUREMENTS OF GARMENT				
	HEIGHT WITHOUT SHOES	WAIST	WAIST	WAIST FULLY EXTENDED	WAIST RELAXED	SEAT IN LINE WITH BOTTOM OF FLY	OUTSEAM FINISHED	INSEAM FINISHED	THIGH 2" BELOW CROTCH	WIDTH AT KNEE	WIDTH AT BOTTOM	SLIDE FASTENER LENGTH AT FLY	
6426	5' 1" to 5' 3 1/2"	23-26	X-SHORT	28	24	42	36 1/2	26	25	22	19	7	
6430				32	28	46			27	23	19 1/2		
6434				36	32	50			29	24	20		
6730	5' 4" to 5' 6 1/2"	27-30	SHORT	32	28	46	39 1/2	28	27	23	19 1/2	8	
6734				36	32	50			29	24	20		
6738				40	36	54			31	25	20 1/2		
6742		39-42		44	40	58			33	26	21		
7030	5' 7" to 5' 9 1/2"	27-30	REGULAR	32	28	46	42 1/2	30	27	23	19 1/2	9	
7034				36	32	50			29	24	20		
7038				40	36	54			31	25	20 1/2		
7042		39-42		44	40	58			33	26	21		
7046		43-46		48	44	62			35	27	21 1/2		
7330	5' 10" to 6' 1/2"	27-30	TALL	32	28	46	45 1/2	32	27	23	19 1/2	10	
7334				36	32	50			29	24	20		
7338				40	36	54			31	25	20 1/2		
7342		39-42		44	40	58			33	26	21		
7346		43-46		48	44	62			35	27	21 1/2		
7634	6' 1" to 6' 3 1/2"	31-34	X-Tall	36	32	50	48	34	29	24	20	10 1/2	
7638				40	36	54			31	25	20 1/2		
7642				44	40	58			33	26	21		
7646		43-46		48	44	62			35	21 1/2			
TOLERANCE PLUS OR MINUS				1/2	3/4	3/4	3/4	1/2	1/2	1/4	0		



NOTICE

This documentation has been reviewed by the technical authority and does not contain controlled goods. Disclosure notices and handling instructions originally received with the document shall continue to apply.

AVIS

Cette documentation a été révisée par l'autorité technique et ne contient pas de marchandises contrôlées. Les avis de divulgation et les instructions de manutention reçues originalement doivent continuer de s'appliquer.

## CLOTH, RIPSTOP, 50/50 NYLON COTTON

### 1.1 Scope

This specification covers the technical requirements for cloth, ripstop, 50/50 nylon cotton blend with the MULTICAM® camouflage pattern.

**Note: It is known that the 50/50 NYCO RIPSTOP material (Item# L002212MCP) distributed by 1947 LLC ([www.1947llc.com](http://www.1947llc.com)) fully meets the requirements within this specification.**

### 1.2 Applicable Documents

The following documents form part of this specification to the extent specified, and are supportive of this specification when referenced; all other document references are to be considered supplemental information only. In the event of a conflict between the documents referenced and the contents of this specification, then the contents of this specification must take precedence:

*CAN/CGSB Standards (email: [ncr.cgsb-ongc@pwgsc.gc.ca](mailto:ncr.cgsb-ongc@pwgsc.gc.ca))*

- CAN/CGSB-4.2-M Textile Test Methods

*FED Standards (Download Documents: <http://assist.daps.dla.mil/quicksearch/>)*

- FED-STD-191A Federal Standard for Textile Test Methods
- Commercial Item Description - A-A-50199 - Thread, Polyester-Core, Cotton- or Polyester-Covered

*American Association of Textile Chemists and Colorists Standards ([www.aatcc.org](http://www.aatcc.org))*

- AATCC Test Method 8 Colorfastness to Crocking: AATCC Crockmeter Method
- AATCC Test Method 15 Colorfastness to Perspiration
- AATCC Test Method 16 Colourfastness to Light
- AATCC Test Method 20A Fiber Analysis: Quantitative
- AATCC Test Method 61 Colorfastness to Laundering: Accelerated
- AATCC Test Method 81 pH of the Water-Extract from Wet Processed Textiles
- AATCC Test Method 96 Dimensional Changes in Commercial Laundering of Woven and Knitted Fabrics Except Wool
- AATCC Test Method 116 Colorfastness to Crocking: Rotary Vertical Crockmeter Method

*American Society for the Testing of Materials ([www.astm.org](http://www.astm.org))*

- ASTM D 629 Standard Test Methods for Quantitative Analysis of Textiles
- ASTM D 737 Standard Test Method for Air Permeability of Textile Fabrics

- ASTM D 1424 Standard Test Method for Tearing Strength of Fabrics by Falling-Pendulum (Elmendorf) Apparatus
- ASTM D 1683 Standard Test Method for Failure in Sewn Seams of Woven Apparel Fabrics
- ASTM D 3775 Standard Test Method for Warp (End) and Filling (Pick) Count of Woven Fabrics
- ASTM D 3776 Standard Test Method for Mass per Unit Area (Weight) of Fabric
- ASTM D 5034 Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)

## **2.0 REQUIREMENTS**

### **2.1 Fabric**

The weave must be a plain weave with reinforcement ribs in both the warp and filling directions forming a uniform pattern. The ribs must be formed by having every twenty- fourth warp end contain two ends weaving as one and every thirteenth filling contain two picks weaving as one. When tested in accordance with the specified test methods, the finished fabric must comply with the performance requirements of Table 1. The finished fabric must be free from oil stains and spots of any kind, all residue of any processing textile chemical auxiliaries must be removed.

### **2.2 Workmanship**

The material covered by the Specification must be free of imperfections or blemishes such as may adversely affect its appearance or serviceability. For inspection purposes, imperfections and blemishes will be considered defects when clearly visible at a normal inspection distance of approximately 1 meter (3.3 ft) under good, preferably North light, lighting conditions.

### **2.3 Yarns and Fibre Content**

Yarns in both warp and weft must be made from a blend of 50 ( $\pm 5$ ) percent nylon with the remaining percentage cotton based on the dry weight of the desized cloth. The warp yarn must be 2-ply and the filling yarn must be 2-ply or singles. The cotton must be carded and combed. The nylon must be first quality, high tenacity, semi-dull staple having a nominal cut length of 3.8 cm (1.5 in) and a round cross-section with a nominal denier of 1.6 to 1.8. No form of nylon waste must be used, such as undrawn fiber, mixtures of deniers, lusters or cross sections, and waste from any stage of fiber production: whether drawn, un-drawn, or mixed or garneted fiber.

### **2.4 Dyeing and Printing**

The cloth(s) must be dyed to a ground shade either matching or approximating Cream 524 and then overprinted with the MULTICAM® camouflage pattern by roller or screen printing in a manner that gives the required degree of colour fastness and a uniform, good penetration of colour in the fibres and fabric as follows:

- (a) When the ground shade is dyed to match Cream 524, the remaining colors are obtained by subsequent printing using six rollers or screens, as appropriate for the Tan 525, Pale Green 526, Olive 527, Dark Green 528, Brown 529 and Dark Brown 530 areas of the pattern;
- (b) When the ground shade is dyed to approximate Cream 524 all seven colors of the camouflage pattern are obtained by subsequent printing using seven rollers or screens to match all seven colors; and
- (c) Resin bonded pigments are not be used.

14 July 2017

### 2.5 Finish

No finish will be applied to obtain fabric stability. The cloth must be dyed and printed with the warp effect side as the face. The cloth must be desized, scoured, dyed, and printed.

### 2.6 Seam Efficiency

The fabric must be tested for seam efficiency according to Federal Test Methods Standard 191A Method 51 or ASTM D 1683; however, Table I default seam specification from ASTM D 1683 must not be used. The thread used must be A-A-50199, Type II, polyester core, polyester covered, Tex size 61-70, 2 ply for both the needle and looper. Needle size metric 110 (0.044 in), chrome, medium ball with stitch type 401 per ASTM D 6183 at 12 stitches per inch (2.5 cm) inch must be used for both the warp and weft directions.

### 2.7 Spectral Reflectance

Spectral reflectance data must be obtained from 600 to 860 nanometers (nm) at 20 nm intervals on a spectrophotometer relative to the barium sulfate standard, the preferred white standard. Other white reference materials may be used provided they are calibrated to absolute white, e.g. magnesium oxide or vitrolite tiles. The spectral band width must be less than 26 nm at 860 nm. Reflectance measurements must be made by either the monochromatic or polychromatic mode of operation. When the polychromatic mode of operation is used, the spectrophotometer must operate with the specimen diffusely illuminated with the full emission of a continuous source that simulates either CIE Source A or CIE Source D65. Measurements must be taken on a minimum of two (2) different areas and the data averaged. The measured areas should be at least 15 cm (6 in) away from the selvage. The cloth must be measured as a single layer backed with four layers of the same shade. The specimen must be viewed at an angle no greater than 10 degrees from normal, with the specular component included. Specimens must be oriented in different directions during testing. When possible, the specimens tested must not contain the same warp or filling yarns when presented to the sample port. Photometric accuracy of the spectrophotometer must be within 1 percent and wavelength accuracy within 2 nanometers. The diameter for standard aperture size used in the color measurement device must be 9.4869 mm (0.3725 in) or larger. Any color having spectral reflectance values falling outside the limits at four or more of the wavelengths specified must be considered a test failure.

Wavelength, Nanometers (nm)	Cream 524 and Tan 525		Pale Green 526, Olive 527 and Brown 529		Dark Green 528 and Dark Brown 530	
	Min.	Max.	Min.	Max.	Min.	Max.
600	22	44	12	30	3	11
620	24	45	12	30	3	11
640	24	45	12	32	4	12
660	25	45	12	32	4	12
680	28	45	14	34	4	13
700	28	46	14	34	6	16
720	30	48	16	36	6	20
740	32	50	18	36	10	25
760	36	50	20	40	14	30
780	38	52	22	40	18	35
800	40	54	22	42	22	40
820	44	56	24	44	24	42
840	46	57	26	44	27	43
860	48	58	28	46	29	45



Table 1: Finished Cloth

Property	Test Method	Specified Requirement	Minimum Acceptable	Maximum Acceptable
Fibre Content	CAN/CGSB-4.2 Test 14.3 or AATCC-20A or ASTM D 629	50% Cotton 50% Nylon	45% Cotton 45% Nylon	55% Cotton 55% Nylon
Mass (g/m <sup>2</sup> )	CAN/CGSB-4.2 Test 5.1 or ASTM D 3776 Option C	220	203	237
Woven Count (yarn/cm)	CAN/CGSB-4.2 Test 6 or ASTM D 3775	Warp: 41 Weft: 21	Warp: 40 Weft: 20	
Breaking Strength (N)	CAN/CGSB-4.2 Test 9.1 or ASTM D 5034	Warp: 890 Weft: 400	Warp: 800 Weft: 350	
Tearing Strength (N)	CAN/CGSB-4.2 Test 12.1 or ASTM D 1424	Warp: 32 Weft: 23	Warp: 30 Weft: 21	
Colourfastness to Light (after 40 AATCC Fading Units)	AATCC Test Method 16 Option 1 or 3	All colours: 4	Dk. Green 528: 3-4 Brown 529: 3-4 Dark Brown 530: 3-4 Cream 524: 3 Tan 525: 3 Pale Green 526: 3 Olive 527: 3	Colour Change (Dry): 3-4 Colour Change (Wet): 3
Colourfastness to Crocking (all colours)	AATCC 8 or AATCC 116	Colour Change (Dry): 5 Colour Change (Wet): 5		
Colourfastness to Laundering - 4 Cycles (each colour)	CAN/CGSB-4.2 Test 19.1 or AATCC 61 Test Method 3A	Colour Change: 5 Staining: 5		Colour Change: 3-4 Staining: 3-4

APPENDIX 1 to ANNEX C1 to W6399-18-KA05  
14 July 2017

Property	Test Method	Specified Requirement	Minimum Acceptable	Maximum Acceptable
Colourfastness to Perspiration (each colour)	CAN/CGSB-4.2 Test 23 or AATCC 15	Colour Change: 5 Staining: 5		Colour Change: 3-4 Staining: 3-4
Dimensional Stability (lot average) (not to be pressed prior to measurement)	CAN/CGSB-4.2 Test 58 (III.E3) (after 3 cycles) or AATCC 96 (after 5 cycles)			Warp: 3.0% Weft: 3.0%
Air permeability (cm <sup>3</sup> /cm <sup>2</sup> /s)	CAN/CGSB-4.2 Test 36 or ASTM D 737		15	
pH	FED-STD-191 Method 2811 or AATCC 81		5	8.5
Seam Efficiency	FED-STD-191 Method 5110 or ASTM D 1683		Warp: 75% Weft: 80%	



NOTICE

This documentation has been reviewed by the technical authority and does not contain controlled goods. Disclosure notices and handling instructions originally received with the document shall continue to apply.

AVIS

Cette documentation a été révisée par l'autorité technique et ne contient pas de marchandises contrôlées. Les avis de divulgation et les instructions de manutention reçues originalement doivent continuer de s'appliquer.

## CLOTH, RIPSTOP, LIGHTWEIGHT BREATHABLE NYLON

### 1.1 Scope

This specification covers the technical requirements for cloth, ripstop, lightweight breathable nylon with the MULTICAM® camouflage pattern.

***Note: It is known that the 100% Nylon Ripstop material (Item# 165 AYT) distributed by 1947 LLC (www.1947llc.com) fully meets the requirements within this specification.***

### 1.2 Applicable Documents

The following documents form part of this specification to the extent specified, and are supportive of this specification when referenced; all other document references are to be considered supplemental information only. In the event of a conflict between the documents referenced and the contents of this specification, then the contents of this specification must take precedence:

*CAN/CGSB Standards (email: ncr.cgsb-ongc@pwgsc.gc.ca)*

- CAN/CGSB-4.2-M Textile Test Methods

*FED Standards (Download Documents: <http://assist.daps.dla.mil/quicksearch/>)*

- FED-STD-191A Federal Standard for Textile Test Methods
- Commercial Item Description - A-A-50199 - Thread, Polyester-Core, Cotton- or Polyester-Covered

*American Association of Textile Chemists and Colorists Standards (www.aatcc.org)*

- AATCC Test Method 8 Colorfastness to Crocking: AATCC Crockmeter Method
- AATCC Test Method 15 Colorfastness to Perspiration
- AATCC Test Method 16 Colourfastness to Light
- AATCC Test Method 20A Fiber Analysis: Quantitative
- AATCC Test Method 61 Colorfastness to Laundering: Accelerated
- AATCC Test Method 96 Dimensional Changes in Commercial Laundering of Woven and Knitted Fabrics Except Wool
- AATCC Test Method 116 Colorfastness to Crocking: Rotary Vertical Crockmeter Method

*American Society for the Testing of Materials (www.astm.org)*

- ASTM D 629 Standard Test Methods for Quantitative Analysis of Textiles
- ASTM D 737 Standard Test Method for Air Permeability of Textile Fabrics
- ASTM D 1424 Standard Test Method for Tearing Strength of Fabrics by Falling-Pendulum (Elmendorf) Apparatus

14 July 2017

- ASTM D 1683 Standard Test Method for Failure in Sewn Seams of Woven Apparel Fabrics
- ASTM D 3775 Standard Test Method for Warp (End) and Filling (Pick) Count of Woven Fabrics
- ASTM D 3776 Standard Test Method for Mass per Unit Area (Weight) of Fabric
- ASTM D 5034 Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)

## **2.0 REQUIREMENTS**

### **2.1 Fabric**

The weave must be a plain weave with reinforcement ribs in both the warp and filling directions forming a uniform pattern. The ribs must be formed by having every twenty- fourth warp end contain two ends weaving as one and every thirteenth filling contain two picks weaving as one. When tested in accordance with the specified test methods, the finished fabric must comply with the performance requirements of Table 1. The finished fabric must be free from oil stains and spots of any kind, all residue of any processing textile chemical auxiliaries must be removed.

### **2.2 Workmanship**

The material covered by the Specification must be free of imperfections or blemishes such as may adversely affect its appearance or serviceability. For inspection purposes, imperfections and blemishes will be considered defects when clearly visible at a normal inspection distance of approximately 1 meter (3.3 ft) under good, preferably North light, lighting conditions.

### **2.3 Yarns and Fibre Content**

Yarns in both warp and weft must be made from 100 percent nylon. The warp yarn must be 2-ply and the filling yarn must be 2-ply or singles. The nylon must be first quality, high tenacity, semi-dull staple having a nominal cut length of 3.8 cm (1.5 in) and a round cross-section with a nominal denier of 1.6 to 1.8. No form of nylon waste must be used, such as undrawn fiber, mixtures of deniers, lusters or cross sections, and waste from any stage of fiber production: whether drawn, un-drawn, or mixed or garneted fiber.

### **2.4 Dyeing and Printing**

The cloth(s) must be dyed to a ground shade either matching or approximating Cream 524 and then overprinted with the MULTICAM® camouflage pattern by roller or screen printing in a manner that gives the required degree of colour fastness and a uniform, good penetration of colour in the fibres and fabric as follows:

- (a) When the ground shade is dyed to match Cream 524, the remaining colors are obtained by subsequent printing using six rollers or screens, as appropriate for the Tan 525, Pale Green 526, Olive 527, Dark Green 528, Brown 529 and Dark Brown 530 areas of the pattern;
- (b) When the ground shade is dyed to approximate Cream 524 all seven colors of the camouflage pattern are obtained by subsequent printing using seven rollers or screens to match all seven colors; and
- (c) Resin bonded pigments are not be used.

### **2.5 Finish**

No finish will be applied to obtain fabric stability. The cloth must be dyed and printed with the warp effect side as the face. The cloth must be desized, scoured, dyed, and printed.

14 July 2017

## 2.6 Seam Efficiency

The fabric must be tested for seam efficiency according to Federal Test Methods Standard 191A Method 51 or ASTM D 1683; however, Table I default seam specification from ASTM D 1683 must not be used. The thread used must be A-A-50199, Type II, polyester core, polyester covered, Tex size 61-70, 2 ply for both the needle and looper. Needle size metric 110 (0.044 in), chrome, medium ball with stitch type 401 per ASTM D 6183 at 12 stitches per inch (2.5 cm) inch must be used for both the warp and weft directions.

Table 1: Finished Cloth

Property	Test Method	Specified Requirement	Minimum Acceptable	Maximum Acceptable
Fibre Content	CAN/CGSB-4.2 Test 14.3 or AATCC-20A or ASTM D 629	100% Nylon		
Mass (g/m <sup>2</sup> )	CAN/CGSB-4.2 Test 5.1 or ASTM D 3776 Option C	120	114	134
Woven Count (yarn/cm)	CAN/CGSB-4.2 Test 6 or ASTM D 3775	Warp: 33 Weft: 25	Warp: 30 Weft: 22	
Breaking Strength (N)	CAN/CGSB-4.2 Test 9.1 or ASTM D 5034	Warp: 760 Weft: 560	Warp: 750 Weft: 550	
Tearing Strength (N)	CAN/CGSB-4.2 Test 12.1 or ASTM D 1424	Warp: 85 Weft: 70	Warp: 80 Weft: 65	
Colourfastness to Light (after 40 AATCC Fading Units)	AATCC Test Method 16 Option 1 or 3	All colours: 4	Dk. Green 528: 3-4 Brown 529: 3-4 Dark Brown 530: 3-4 Cream 524: 3 Tan 525: 3 Pale Green 526: 3 Olive 527: 3	
Colourfastness to Crocking (all colours)	AATCC 8 or AATCC 116	Colour Change (Dry): 5 Colour Change (Wet): 5	Colour Change (Dry): 3-4 Colour Change (Wet): 3	
Colourfastness to Laundering - 4 Cycles (each colour)	CAN/CGSB-4.2 Test 19.1 or AATCC 61 Test Method 3A	Colour Change: 5 Staining: 5	Colour Change: 3-4 Staining: 3-4	

APPENDIX 1 to ANNEX C2 to W6399-18-KA05  
14 July 2017

Property	Test Method	Specified Requirement	Minimum Acceptable	Maximum Acceptable
Colourfastness to Perspiration (each colour)	CAN/CGSB-4.2 Test 23 or AATCC 15	Colour Change: 5 Staining: 5	Colour Change: 3-4 Staining: 3-4	
Dimensional Stability (lot average) (not to be pressed prior to measurement)	CAN/CGSB-4.2 Test 58 (III.E3) (after 3 cycles) or AATCC 96 (after 5 cycles)			Warp: 4.0% Weft: 3.0%
Air permeability (cm <sup>3</sup> /cm <sup>2</sup> /s)	CAN/CGSB-4.2 Test 36 or ASTM D 737		15	
Seam Efficiency	FED-STD-191 Method 5110 or ASTM D 1683		Warp: 75% Weft: 80%	

**BID EVALUATION PROCESS FOR THE  
SPECIAL OPERATIONS FORCES (SOF) DISTINCTIVE SERVICE UNIFORM**

**1.0 GENERAL**

**1.1 Purpose**

This document outlines the proposal requirements and the bid evaluation process for the SOF Distinctive Service Uniform (SDSU).

**2.0 PRE-AWARD SAMPLES**

The Bidder must provide the following samples with the bid:

- (a) SDSU Coats, in size 7040, manufactured in accordance with the Manufacturing Data at Annex B1 as follows:
  - i. Quantity two (2) in Cloth, Ripstop, 50/50 Nylon Cotton material (Annex C1); and
  - ii. Quantity two (2) in Cloth, Ripstop, Lightweight Breathable Nylon material (Annex C2);
  
- (b) SDSU Trousers, in size 7034, manufactured in accordance with the Manufacturing Data at Annex B2 as follows:
  - i. Quantity two (2) in Cloth, Ripstop, 50/50 Nylon Cotton material (Annex C1); and
  - ii. Quantity two (2) in Cloth, Ripstop, Lightweight Breathable Nylon material (Annex C2).

The samples must fully represent the proposed finished garments and be constructed of the same material to be utilized in the final product including use of the MULTICAM™ color scheme. All samples will remain the property of Canada.

**3.0 EVALUATION**

**3.1 Instructions**

Bidders will be assessed in accordance with the instructions and criteria as detailed within this document. The following instructions apply to the Bidder evaluation:

- (a) Mandatory requirements are identified by the word "must". All mandatory requirements must be met in order to meet compliance with the requirements; and
- (b) Documentation provided with the bid must be type written (hand written submissions will not be considered).

**3.2 Bid Documentation**

The Bidder must provide the following documentation:

- (a) A completed Compliance Matrix (Table 1); and
  - (b) Proof of compliance and Certificates of Compliance as specified in the Proof of Compliance column of Table 1. For the purposes of this RFP, a Certificate of Compliance is a written statement from an appropriate official of the Bidder attesting the full compliance of the component(s) identified in the "Requirement" column of Table 1. This document must be on official company stationery; it must be dated after the Request for Proposal posting date; it must make reference to the applicable specification or component and have the original signature of the company's designated representative. Canada reserves the right to verify the statements made in the Certificate of Compliance. Full test results, demonstrating the product's compliance, will be accepted in lieu of a Certificate of Compliance;
  - (c) Where test results are requested, the Bidder must provide a laboratory analysis of the product offered showing complete test results for specific tests identified in the "Requirement" column of Table 1. Testing must be performed by an independent accredited laboratory establishment and must be in accordance with the test methods detailed in the technical requirement. The laboratory report and test results must be dated within six months of the request for proposal posting date.; and
  - (d) Where a third part certification is required, the Certificate of Compliance must be from the component or fabric manufacturer that certifies that the component or fabric fully meets or exceeds the stated requirement.
- 3.3 Quality Assessment  
The pre-award sample garments must be free of imperfections or blemishes that may adversely affect its appearance, quality, serviceability and functionality. For inspection purposes, imperfections and blemishes must be considered defects when clearly visible at a normal inspection distance of approximately 1 m (3.3 ft) under day light conditions. Good commercial standard practices must apply throughout, with the following being considered poor commercial standard practice:
- (e) Any hole, cut, tear, mend, drop stitch, raised seam, loose knit, miss knit, streak, knitted-in-waste, permanent fold, pleat or crease;
  - (f) Any spot or stain, discoloration or colour not as specified; and
  - (g) Any shaded part or any objectionable odor.

Samples that are not manufactured to good commercial standard practices, or have imperfection or blemishes that may adversely affect its appearance, quality, serviceability and functionality, will be deemed non-compliant and given no further consideration.

3.4 Durability Assessment

In order to assess the durability of the uniforms, one (1) of each sample garment will be washed thirty (30) times using following the manufacturer's recommended washing procedures, with the second samples being retained as a reference. Following washing, the uniforms will

be assessed for quality to ensure it remains free of imperfections or blemishes that may adversely affect its appearance, quality, serviceability and functionality as follows:

- (a) Any hole, cut, tear, mend, drop stitch, raised seam, loose knit, miss knit, streak, knitted-in-waste, permanent fold, pleat or crease;
- (b) Any lost buttons or failed seams;
- (c) Any spot or stain, discoloration or colour not as specified; and
- (d) Any shaded part or any objectionable odor.

Samples after washing that have imperfections or blemishes, lost buttons or failed seams that may adversely affect its appearance, quality, serviceability and functionality, will be deemed non-compliant and given no further consideration.

Table 1: Compliance Matrix

Item #	Reference Para	Requirement	Proof of Compliance	Compliant (Y/N)
1	N/A	<u>Expertise and Proven Design</u> The Bidder must be an experienced military uniform manufacturer by having been in the business of manufacturing military uniforms for a minimum of five (5) years and having sold a minimum of five hundred (500) uniforms to an American, British, Canadian or Australian (ABCA) military force in the last five (5) years.	The Bidder must provide: (1) Details of work experience demonstrating their experience of manufacturing military uniforms for a minimum of five (5) years;  AND  (2) Contract number(s), award dates, model and quantities delivered that demonstrates sales of a minimum of five hundred (500) uniforms to an ABCA military force in the last five (5) years. Cumulative sales over multiple contracts is acceptable.	
2	Annex B1 3.3	The Coats must be available in the sizes specified in Annex B1 Section 3.3.	DND will visually verify the compliance of this requirement using the provided samples.	
3	Annex B2 3.3	The Trousers must be available in the sizes specified in Annex B2 Section 3.3.	DND will visually verify the compliance of this requirement using the provided samples.	
4	Annex E	The garments must be available in custom sizes.	DND will visually verify the compliance of	

	2.1(c)		this requirement using the provided samples.	
5	Annex B1	The Coats must be manufactured in accordance with Annex B1.	DND will visually verify the compliance of this requirement using the provided samples.	
6	Annex B2	The Trousers must be manufactured in accordance with Annex B2.	DND will visually verify the compliance of this requirement using the provided samples.	
7	Annex C1	Cloth, Ripstop, 50/50 Nylon Cotton	The Bidder must provide: (1) A Certificate of Compliance that the fabric fully meets all of the requirements in Annex C1;  AND  (2) Full test results and/or third party certification that confirms that the finished fabric is compliant with the Spectral Reflectance requirements in Annex C1, Section 2.7;  AND  (3) Full test results and/or third party certification that confirms that the finished fabric is compliant with all of the properties specified in Appendix 1, Annex C1, Table 1.	
8	Annex C2	Cloth, Ripstop, Lightweight Breathable Nylon	The Bidder must provide: (1) A Certificate of Compliance that the fabric fully meets all of the requirements in Annex C2;  AND  (2) Full test results and/or third party certification that confirms that the finished fabric is compliant with all of the properties specified in Appendix 1, Annex C2, Table 1.	
9	Annex D	Quality Assessment	DND will visually verify the compliance of	

ANNEX D to W6399-18KA05/A  
14 July 2017

10	Section 3.3 Annex D Section 3.4	Durability Assessment	this requirement using the provided samples. DND will visually verify the compliance of this requirement using the provided samples.	
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**ANNEX "E" - BASIS OF PAYMENT**

The Contractor will be paid in accordance with the following:

**1. Firm unit prices for Special Operations Forces (SOF) Distinctive Service Uniform:**

The Contractor will be paid firm unit prices for each item, in Canadian funds for the initial year and the extension periods of the Requisition on Contract; Delivered Duty Paid (Incoterms 2000) transportation costs included, goods and Services Tax, Harmonized Sales Tax and Quebec Sales Tax are extra. Canadian Customs duties, where applicable, sales, excise and other and similar taxes levied, assessed or imposed under any legal jurisdictions in respect of anything to be furnished, sold or delivered by the Contractor pursuant to the Contract; all export and import licenses, permits where applicable; and any other related costs must be included in the firm unit prices.

**1.1 PRICING GRID**

- A) Year 1 – 12 months from contract award date.
- B) Year 2 – 13 to 24 months from contract award date.
- C) Year 3 – 25 to 36 months from contract award date.
- D) Year 4 – 37 to 48 months from contract award date.
- E) Year 5 – 49 to 60 months from contract award date.

Item	Description	Unit of Issue	Year 1 – Firm Unit Price	Year 2 – Firm Unit Price	Extension		
					Year 3 – Firm Unit Price	Year 4 – Firm Unit Price	Year 5 – Firm Unit Price
1	Coat - Type I (Annex C1)	Each	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
2	Coat - Type II (Annex C2)	Each	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
3	Coat - Type III (GSM)	Each	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
4	Trousers - Type I (Annex C1)	Each	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
5	Trousers - Type II (Annex C2)	Each	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
6	Trousers - Type III (GSM)	Each	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____

**ANNEX "F" - REQUISITION ON CONTRACT**  
 (Note: Will be applicable during the contract period)

<b>REQUISITION ON CONTRACT (ROC) SAMPLE</b>	
<b>1. CONDITIONS</b>	
ALL INVOICES, SHIPPING BILLS, AND PACKING SLIPS MUST SHOW THE FOLLOWING AGREEMENT REFERENCE NUMBERS:	
CONTRACT NUMBER :	ROC NUMBER :
<b>TO:</b>  Contractor: Address:	<b>DELIVERY DATE:</b>  <b>BALANCE LEFT ON CONTRACT PRIOR TO THIS ROC (Applicable Taxes included):</b>  <b>VALUE OF THIS REQUISITION ON CONTRACT (ROC) (Applicable Taxes included):</b>  <b>BALANCE REMAINING ON THE CONTRACT (Applicable Taxes included):</b>

<b>2. REQUIREMENT</b>				
<b>2.1 FOR THE SUPPLY OF EQUIPMENT, :</b> The Contractor shall be paid firm unit prices in Canadian dollars, DDP Delivered Duty Paid (destination) Incoterms 2000, Applicable Taxes are extra. Freight charges to destination and all applicable Custom duties and Excise taxes must be included.				
Item #	Item Description	Quantity	Firm Unit Price (as per Contract)	Total
				\$
				\$
				\$
				\$
<b>Total cost of items</b>				\$
<b>Rush Shipping cost</b>				\$
<b>Applicable Taxes</b>				\$
<b>Total cost including Applicable Taxes</b>				\$
<b>DELIVERY DESTINATION(S) Delivery Duty Paid (destination) Incoterms 2000:</b>				
The Contractor shall not charge Canada for any costs exceeding this total price.				
<b>3. APPROVALS</b>				
<b>Project/Technical Authority:</b>		<b>Administrative Authority (Procurement):</b>		<b>Contracting Authority at PWGSC (For any ROC over \$400,000):</b>
Name:		Name:		Name:
Signature:		Signature:		Signature:
Date:		Date:		Date:

Solicitation No. - N° de l'invitation  
W6399-18KA05/A  
Client Ref. No. - N° de réf. du client  
W6399-18KA05

Amd. No. - N° de la modif.  
File No. - N° du dossier  
pr760. W6399-18KA05

Buyer ID - Id de l'acheteur  
pr760  
CCC No./N° CCC - FMS No./N° VME

**ANNEX "G"**

**PERIODIC USAGE REPORT**

Instructions for submission of Requisition on Contracts usage data. The Contractor must e-mail the information identified below in an electronic spreadsheet in the format below, to the Contracting Authority identified herein.

The report must include as a minimum the following:

- The contract number for which the data is submitted;
- The period for which the data has been accumulated (start date to end date);
- The start date and end date for the contract;
- Item description;
- Quantity ordered, Unit price;
- Value of individual ROCs; and
- The total spend per reporting period.

Contract	(Insert Contract #)	Start Date of Contract (DD/MM/YYYY)	End Date of Contract (DD/MM/YYYY)
Total Value to Date (\$)	Total Value for Reporting Period (\$)	Start Reporting Period (DD/MM/YYYY)	End Reporting Period (DD/MM/YYYY)
ROC Number	Item Description	Firm Unit Price, Quantity Ordered	Date of Delivery / Value of Order (not including GST/HST, if applicable)

Department	Total Number of all ROCs during reporting period	Total Number of all ROCs to date.	Total Dollar Value (\$ of all ROCs during reporting period.	Total Dollar Value (\$\$) of all ROCs to date

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**ANNEX "H" to PART 5 OF THE BID SOLICITATION  
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.

**OR**

- A5.2. The Bidder certifies having submitted the [Agreement to Implement Employment Equity](#) (LAB1168) to ESDC-Labour. As this is a condition to contract award, proceed to completing the form Agreement to Implement Employment Equity (LAB1168), duly signing it, and transmit it to ESDC-Labour.

B. Check only one of the following:

- B1. The Bidder is not a Joint Venture.

**OR**

- B2. The Bidder is a Joint Venture and each member of the Joint Venture must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification. (Refer to the Joint Venture section of the Standard Instructions)

Solicitation No. - N° de l'invitation  
W6399-18KA05/A  
Client Ref. No. - N° de réf. du client  
W6399-18KA05

Amd. No. - N° de la modif.  
File No. - N° du dossier  
pr760. W6399-18KA05

Buyer ID - Id de l'acheteur  
pr760  
CCC No./N° CCC - FMS No./N° VME

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## **ANNEX "I" - ELECTRONIC PAYMENT INSTRUMENTS**

The Bidder accepts 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)