



RETURN BIDS TO:

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**Bid Receiving - PWGSC / Réception des soumissions
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11 Laurier St./ 11, rue Laurier
Place du Portage, Phase III
Core 0B2 / Noyau 0B2
Gatineau, Québec K1A 0S5
Bid Fax: (819) 997-9776

**SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

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

Title - Sujet HAT, SUN, TEMPERATE WEATHER, COMBAT	
Solicitation No. - N° de l'invitation W8486-163168/A	Amendment No. - N° modif. 002
Client Reference No. - N° de référence du client W8486-163168	Date 2016-08-03
GETS Reference No. - N° de référence de SEAG PW-\$\$PR-707-71283	
File No. - N° de dossier pr707.W8486-163168	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-09-12	
Time Zone Fuseau horaire Eastern Daylight Saving Time EDT	
F.O.B. - F.A.B. Specified Herein - Précisé dans les présentes	
Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input checked="" type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Elder, Sylvie	Buyer Id - Id de l'acheteur pr707
Telephone No. - N° de téléphone (873) 469-3172 ()	FAX No. - N° de FAX (819) 956-5454
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

Instructions: Voir aux présentes

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

W8486-163068

This amendment is raised to revise Annex B.

All other Terms and Conditions remain the same.



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.

Annex B
To: W8486-163168
DSSPM 2-3-87-5176
7 November 2015
Supersedes:
DSSPM 2-3-87-5176
Dated: 11 September
2009

SPECIFICATION

FOR

HAT, SUN, TEMPERATE WEATHER, COMBAT (HSTW)

1 SCOPE

1.1 **Scope.** This Specification covers the materials, design and construction requirements for the Hat, Sun, Temperate Weather, Combat.

1.2 **Intended Use.** The Hat, Sun, Temperate Weather, Combat is intended to provide soldiers with protection from sun in temperate weather conditions.

1.3 **Classification.** This specification applies to the production of the following combat hats. The type must be specified in the contract.

Type I CADPAT™ Temperate Woodlands (TW), NSN 8415-21-914-5176 A/A

Type II CADPAT™ Arid Region (AR), NSN 8415-21-921-7797 A/A

Type III United Nations (UN) Blue, NSN 8415-21-921-4759 A/A

2 APPLICABLE DOCUMENTS

2.1 The following documents, of the issue in effect on the date of the Request for Proposal, form a part of this Specification to the extent specified herein. Documents referenced within the documents cited herein must not be applicable to this Specification unless the extent is specifically delineated in this Specification.

2.2 **Government Documents.** The following specifications will be provided by the Government, as part of this document. Additional copies may be obtained from the Department of National Defence, Ottawa, Ontario, K1A 0K2, Attention: DSCO 4-7:

Specifications

D-80-001-059/SF-001 Cloth, Coated, Nylon/Taffeta-Polyurethane

D-80-001-028/SF-001 Cord, Plaited, Spun Synthetic Fibre, Types I

D-80-001-055/SF-001 Specification for Label, Clothing and Equipment

Manufacturing Data

Product Data Package	Hat, Sun, Temperate Weather, Combat, Appendix 1
DSSPM 2-2-80-023	Cloth, Twist, Nylon/Cotton, Lightweight, 170gm/m ² Appendix 2
DSSPM 2-2-80-500	CADPAT™ (TW) colour and Infra-red requirements Appendix 3
DSSPM 2-2-80-501	CADPAT™ (AR) colour and Infra-red requirements
DSSPM 2-2-80-153	Tape, Fastener, Nylon, Hook and Loop, Appendix 4

2.3 **Other Documents.** Documents listed below as specifications are not provided by the Government and may be purchased from the sources shown:

Canadian General Standards Board
Telephone: (819) 956-0425 or 1-800-665-CGSB (Canada only)
Internet address: ncr.cgsb-ongc@pwgsc.gc.ca

CAN/CGSB-4.2	Textile Test Methods
CAN/CGSB-4.131-93	Cotton-Covered or Polyester-Covered Polyester Thread
CAN/CGSB-4.139-94	Polyester Staple Thread
CAN/CGSB-54.1-M	Stitches and Seams – Part 1 and 2: Textiles: Stitch Types – Classification and Terminology;
CAN/CGSB-86.1-2003	Care Labelling of Textiles
Pantone Colour Chart	Pantone Inc., Carlstadt, N.J., phone 201-935-5500

2.4 Figures

Figure 1	Front and Back
Figure 2	Back Details
Figure 3	Side View
Figure 4	Inside Details

~~2.4.1 Additional front and back views of the hat, are shown in the Product Data Package (PDP), Appendix 1 to this specification. The PDP is provided as a guide to style and design.~~

2.5 Sealed Samples

2.5.1 Sealed Samples are made available to the bidders and the contractor as a guide to production. The sealed pattern may not meet the technical requirements in all respects and must be used for guidance only during production. The sealed pattern numbers are:

DSSPM 109-99*	Hat, Sun, Temperate Weather, Combat, CADPAT™ TW
DSSPM 112-01*	Hat, Sun, Temperate Weather, Combat, CADPAT™ AR

DSSPM 107-01*	Hat, Sun, Temperate Weather, Combat, UN Blue
DSSPM 259-01	Cloth, Twist, Nylon/Cotton, Lightweight, CADPAT™ (TW), Construction, Colours, and Pattern
DSSPM 253-02	Cloth, Twist, Nylon/Cotton, Lightweight, CADPAT™ (AR), Construction, Colours and Pattern
DCGEM 272-80	Cloth, Coated, Nylon Taffeta-Polyurethane – Sealed for Finish
DSSPM 281-01	Canadian Average Green in CADPAT™ (TW)
DSSPM 263-02	Light Sand in CADPAT™ (AR)
DSSPM 252-04	Colour, United Nations (UN) Blue

*Brim on HSTWC must be same size as specified in this Annex and must be 3/4" smaller than sealed sample.

2.6 Patterns

2.6.1 The following pattern drawings will be provided by the Department of National Defence (DSSPM 2-5):

Style Code HSHWC13 Hat, Sun, Temperate Weather, Combat

2.6.2 The range of sizes covered by the pattern drawings is listed in the Scale of Measurements, ~~Appendix 1~~ Table II to this specification.

2.6.3 For bidding purposes, bidders are provided with the pattern drawings for Size 7. The full set of paper patterns is provided to the successful bidder after contract award and is available in paper as individual sized patterns or as a graded nest.

2.6.4 The hat must be produced in accordance with the pattern drawings provided.

2.7 Order of Precedence

2.7.1 In the event of conflict between the documents referenced herein and the contents of this Specification, the contents of this document must take precedence.

2.7.2 In the event of inconsistency within this Specification, the Design Authority must be contacted for clarification.

2.7.3 In the event of inconsistency between contract documents, such as contract, Specification, pattern drawings and sealed patterns, the order of precedence must be contract, Specification, pattern drawings and sealed patterns.

2.7.4 Nothing in this document supersedes applicable laws and regulations, unless a specific exemption has been obtained.

3 REQUIREMENTS

3.1 Definition of Product This Specification pertains to the three colour configurations of Hat, Sun, Temperate Weather, Combat. This garment has the following design features:

- a. brim around entire circumference of sidewall;
- b. webbing bar tacked at intervals around the hatband for the attachment of camouflage materials;
- c. two black screened vents and retention washers on each side of hat;
- d. cord chinstrap with toggle; and
- e. concealable phosphorescent tabs (Cat's-eyes).

3.2 All garment components must be governed by the applicable drawings Figures at ~~Appendix 1~~, or as otherwise specified. Hat circumference dimensions with corresponding sizes are shown in the Scale of Measurements at ~~Appendix 1~~ Table II to this specification.

3.3 Pre-Production Samples. When specified in the contract, pre-production samples must be completely representative of the final production garment being made from parts and materials as specified and by equipment and processes that will be used in quantity production.

3.4 Materials

3.4.1 General. Table I at para 3.4.16 identifies the colour of each material item detailed below for Combat hat Type I, II, and III.

3.4.2 Shell Material. The shell material must be Cloth, Twist, Nylon/Cotton, Lightweight, 170 g/m², Type V conforming to Manufacturing Data DSSPM 2-2-80-023. See Appendix 2.

3.4.3 Print and Colour. The print colours and pattern must be as specified in DSSPM 2-2-80-500 for CADPAT™ TW, Annex B Appendix 3, and as specified in DSSPM 2-2-80-501 for CADPAT™ AR. For United Nations (UN) Blue, refer to Sealed Pattern DSSPM 252-04 and Table 1.

3.4.4 Brim Interlining Components. The brim interlining must consist of 1 layer of adhesive web, 1 layer of coated nylon, and 1 layer of stiffener.

3.4.4.1 The adhesive web must be a polyamide web having a weight of 20 g/m². Style Web 20 from Veratex Lining Ltd., 5425 Ave Casgrain, Suite 701, Montreal, Quebec H2T 1X6 has been known to meet these requirements. Any other commercial equivalent is acceptable provided it is a Design Authority approved material. This layer of adhesive web must be in between the top layer of shell and the coated nylon.

3.4.4.2 The coated-nylon material must be cloth, coated, nylon taffeta-polyurethane conforming to D-80-001-059/SF-001. The finish must be in accordance with the Sealed Pattern DCGEM 272-80. The colour must be white.

3.4.4.3 The stiffener interlining must be a cross laid base, binder bonded material of 100% polyester. The colour must be white. The weight must be 115g/m² (+/- 10%). The average thickness must be 0.95 mm.

3.4.5 Sweatband Interlining Components. The sweatband interlinings must consist of 1 sweat absorption layer and 1 cover layer.

3.4.5.1 The sweat absorption layer must be a non-woven, non-fusible felt material. It must be white and must consist of polyester with an acrylic binder. The weight must be 142 g/m² (+/- 10%). The average thickness must be 1.10 mm (+/- 10%).

3.4.5.2 **The cover layer must be white.** It must be 80 to 90% polyester and 10 to 20% rayon. The material must be 36 to 42 g/m². Style number 226 available from Veratex Lining Ltd, 5425 Casgrain Avenue, Suite 701, Montreal, Quebec, H2T 1X6, (514) 274-4495 have been known to meet these requirements. Any other commercial equivalent is acceptable provided it is a Design Authority approved alternative material.

3.4.6 **Chinstrap.** The chinstrap cording must be Cord, Plaited, Spun Synthetic Fibre, Lightweight conforming to D-80-001-028/SF-001, Type I. The colour must be as identified in Table 1.

3.4.7 **Webbing.** The webbing must be Textile, Spun Polyester, double Jacquard weave, 19 g/m² (+/- 5%) in weight, the warp ends must be 192 with 19 picks/cm. The thickness must be 1.7mm (+/- 10%) and the width must be 9/16-inch (14.3 mm). The colour must be a good visual match to the shell material as specified in Table I. Apparel Trimmings, 2151 McGowan Road, Scarborough, Ontario M1S 3Y6, phone 416-298-6998 has been known to provide this item. The colour must be as identified in Table 1.

3.4.8 **Screened Vents and Retention Washers.** The screened vents and retention washers must be brass and must have a dull, black, chemical finish. The screened vent must have an outside rim diameter of 9/16-inch (14.3 mm), and an outside screening diameter of 7/16-inch (11.1 mm). Screen item number D53, and washer item number C658 available from Stimpson Co Inc, 900 Sylvan Ave, Bayport, NY, 11705-1097, (516) 472-2000, Fax (516) 472-2425, have been known to meet these requirements. Any other commercial equivalent is acceptable provided it is a Design Authority approved alternative item.

3.4.9 **Toggle.** The toggle must be a cylindrical, round tipped, plastic type with a non-metallic tension adjustment mechanism. Cord Stopper, style number LC-SR, colour Black, available from YKK Canada Inc, 3939 Thimens Blvd, Ville St. Laurent, Quebec, H4R 1X3, (514) 332-3350, Fax (514) 332-6040, has been known to meet this requirement. Any other commercial equivalent is acceptable provided it is a Design Authority approved alternative item.

3.4.10 **Thread for Seaming and Stitching.** The thread must be polyester staple conforming to CAN/CGSB-4.139-94, Size 50, R50 TEX, or polyester, cotton-covered or polyester-covered conforming to CAN/CGSB-4.131-93 class A or B, Size 75, R50 TEX. The colour must be identified in Table 1.

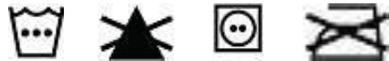
3.4.11 **Hook and Loop Fastener Tape.** The hook and loop fastener tape must be, 3/4-inch (18 mm) wide, Type V, and must conform to the Manufacturing Data for Tape, Fastener, Nylon Hook and Loop, DSSPM 2-2-80-153. The colour must be as identified in Table 1.

3.4.12 **Luminescent Material.** The luminescent material must be SPOT-LITE® GLO Film, Series 4100 CLL (flexible plastic-backed film with pressure sensitive acrylic adhesive and 90 pound liner). This material is available in roll or sheet form from Hanovia Inc, 6 Evans Street, Fairfield, New Jersey 07004, Phone (973) 651-5510 or Fax (973) 651-5550. Any other commercial equivalent is acceptable provided it is a Design Authority approved alternative material.

3.4.13 **Labels**

3.4.13.1 **Marking and Label Information.** The following information and care symbols must be incorporated on the label. The label may be polyester jacquard woven as in previous contracts or it must be in accordance with D-80-001-055/SF-001, Type I. The label must be nominally 2-inches (5 cm) long by 1-1/4 inches (3.2 cm) wide.

- i. NATO Stock Number (NSN) that is specific for each size
- ii. Size of garment, e.g. 7;
- iii. Month and year of production, e.g. 09/98 and Manufacturer (CA)
- iv. Space to write personal identification, e.g. “ ID _____ ”
- v. Care Symbols in accordance with CAN/CGSB-86.1-2003 as follows:
 - a. Washing Symbol 6;
 - b. Bleaching Symbol 3;
 - c. Drying Symbol 2; and
 - d. Ironing/Pressing Symbol 5



3.4.14 **Hang Tags.** No brand or product names must be permanently attached to the garment in any way. However, brand hang tags that are easily removed without causing damage to the product may be acceptable at no cost to the Crown, provided that approval for text and use has been granted by the Design Authority.

3.4.15 **Material Colour.** The following Table 1 identifies the colour of each material specified above as applicable.

Table I – Colour

ITEM	PARA	Type I CADPAT™ (TW)	Type II CADPAT™ (AR)	Type III UN BLUE
Shell Material	3.4.2	CADPAT™ (TW) DSSPM 259-01	CADPAT™ (AR) DSSPM 253-02	Pantone Textile Colour # 16-4134TC
Chinstrap	3.4.6	Canadian Average Green in Sealed Pattern DSSPM 281-01	Light Sand in Sealed Pattern DSSPM 263-02	Pantone Textile Colour # 16-4134TC
Webbing	3.4.7	CADPAT™ (TW) 4 colour weave Apparel Trimmings Style # CMW0114	CADPAT™ (AR) 3 colour weave Apparel Trimmings Style #CMW0214	Pantone Textile Colour # 16-4134TC Apparel Trimmings Style #CMW0014B
Thread	3.4.10	Canadian Average Green in Sealed Pattern DSSPM 281-01	Light Sand in Sealed Pattern DSSPM 263-02	Pantone Textile Colour # 16-4134TC
Hook and Loop	3.4.11	Canadian Average Green in Sealed Pattern DSSPM 281-01	Light Sand in Sealed Pattern DSSPM 263-02	Black

3.5 Cutting

3.5.1 Hats must be cut using Government supplied pattern drawings. Pattern drawings include seam allowances but do not include make-up allowance. The contractor must be responsible for any change which may be required for make-up allowance to suit production methods, but the design, grade or requirements specified herein must not be changed.

3.5.2 The shell parts of each hat must be cut in the direction of the warp as indicated on the pattern drawings.

3.5.3 The shell parts of each hat must be cut from the same print run of material with the exception of the sweatband, the inside crown binding and the inside pocket pieces.

3.6 Sewing

3.6.1 All seams and stitching must be in accordance with CAN/CGSB-54.1-M.

3.6.2 Seams must be a minimum of 3/8-inch (9.5 mm) wide unless otherwise specified.

3.6.3 All stitching must be lockstitch Type 301 with a minimum of 9 and maximum of 11 stitches per inch (3.5 – 4.3 stitches/cm). The serging may be done using any of the 500 series stitches and must have a minimum of 10 cover stitches per inch (4.0 stitches/cm).

3.6.4 Bartacks must be 3/8-inch (9.5 mm) to 7/16-inch (11 mm) long with 22-24 stitches. They must not exceed a width of 3/32-inch (2.4 mm).

3.6.5 The tension of the needle and bobbin threads must be adjusted to ensure correctly formed stitches.

3.7 Construction

3.7.1 **Brim Construction.** See Figure 4.

3.7.1.1 The hat brim must be constructed of the following layers from top to bottom: 1 layer of shell material on the top, 1 layer of adhesive web, 1 layer of coated nylon, 1 layer of stiffener, and 1 layer of shell on the bottom.

3.7.1.2 The top shell layer and the coated-nylon layer must be fused together with the adhesive web. All layers must be placed together so that they are flush at the outside brim edge. The brim topstitching must have parallel lines of stitching running generally parallel to the circumference of the brim. The stitching must be evenly spaced at 1/4-inch (6.4 mm) +0/ -1/16 inch (tolerance of plus zero, minus one sixteenth of an inch), and may be either separate rings or a spiral pattern.

3.7.1.3 The outside edge of the brim must be bound with bias cut shell material to a finished width of 3/8-inch (9.5 mm). The binding must be attached by stitching, turning and topstitching, as shown in Appendix 1, or it must be done using an automatic binding machine. The binding must be clean finished with no raw edges exposed. The binding must start and finish at the centre back, with the turned end of the binding lapped of a minimum of 1/2-inch (12.5 mm) on the opposite end of the binding. If seaming occurs in the binding, then the binding seam allowances must be a minimum than 3/8-inch (9.5 mm).

3.7.1.4 **Hatband and Sidewall Assembly.** The hatband must be applied by folding and edge stitching the top edge of the hatband to the outside sidewall.

3.7.1.5 **Webbing Attachment.** The webbing must be centred on the hatband. The hatband has a series of marks indicating where the webbing is anchored. At each mark stitch through the webbing, the hatband and the sidewall with a straight stitch, 3 times. Do not allow the stitching to extend past the webbing. The webbing must start and finish at the centre back. The webbing must not lay flat on the band. Care must be taken to allow ease between the webbing bartacking. There must be 1/8-inch (3.2 mm) to 1/4-inch (6.4 mm) ease allowed per loop. The phosphorescent 'Cat's-eye' assemblies must be fed onto the webbing prior to closure of the back seam.

3.7.1.6 **Phosphorescent Tab Loop Assemblies (Cat's-eye).** See Appendix 1, Page 6/14. See Figure 2.

3.7.1.7 Each loop must be constructed by folding each long edge in 3/8-inch (9.5 mm). One raw end of the loop must be folded up to within 1/4-inch (6.4 mm) of the other raw end, wrong sides together. The longer end must be folded down over the other raw edge, 1/4-inch (6.4 mm). The long edges must be topstitched 1/16-inch (1.5 mm) gauge.

3.7.1.8 The phosphorescent strips must have finished dimensions of 1-inch (2.5 cm) wide by 1/2-inch (1.3 cm) long. The strips must be placed on top of the raw edges of the loops 1/8-inch (3.2 mm) from the folded edge. The phosphorescent strips must be edge stitched to the shell loops in a box formation.

3.7.1.9 The loop must be closed by folding it in half and securely edge stitching the short ends together. The loops must finish in accordance with the dimensions shown at Appendix 1. The loops must be fed onto the webbing. The loops must function such that they can be turned by hand into the desired position and not roll around the webbing freely.

3.7.1.10 The centre back seams of the inside and outside sidewalls must be stitched 3/8-inch (9.5 mm) gauge and finished with the seam allowances facing each other. The webbing ends must be secured into the centre back seam.

3.7.2 Screened Vents Attachment. Two screened vents must be applied to each side of the hat. They must be located in accordance with the markings on the pattern drawings. Care must be taken to affix them in accordance with the manufacturer's instructions and leaving no raw edges exposed. The vents must remain secure for the life of the hat.

3.7.3 Inside Crown Pocket. The raw edges of the inside pocket pieces must be turned under twice and topstitched at 1/4-inch (6.4 mm) gauge. The pocket pieces must be lapped over each other to form the inside crown.

3.7.3.1 The outer pocket edges, crown edge and top sidewall edges must be stitched together and the raw edges must be bias bound so that no raw edges are exposed.

3.7.3.2 The crown must be edge stitched through all layers from the top.

3.7.4 Sweatband.

3.7.4.1 The sweatband must consist of three layers. The outer layer must be shell material, the middle layer must be a sweat absorption interlining, and the next layer must be a cover interlining. All three layers must be placed together. The top long edge of the shell layer must be serged and folded over the top edges of the interlinings 3/8-inch (9.5 mm). The folded edge must be edge stitched 1/16-inch (1.5 mm) gauge, catching all layers of the sweatband. The bottom long edge of the shell layer must be folded over the bottom edges of the interlinings 3/8-inch (9.5 mm). The folded edge must be edge stitched 1/16-inch (1.5 mm) gauge, catching all layers of the sweatband.

3.7.4.2 When finished, the right side back edge must be folded under and lapped over the left back edge and topstitched. Care must be taken to overlap the right side back approximately 3/4-inch (19 mm) from the centre back to reduce bulk.

3.7.4.3 The bottom edges of the sidewall assembly must be stitched to the inside edge brim assembly at 3/8-inch (9.5 mm) gauge.

3.7.4.4 The bottom long edge of the sweatband must be edge stitched to the sidewall and brim assembly seam allowance, ensuring that the ends of the chinstrap are secured in the stitching. The finished length of cording for the chinstrap must be 30-inches (76 cm) for all sizes.

3.7.4.5 The bottom edge of the outside hatband must be edge stitched through all layers ensuring that the sweatband is facing in and up.

3.7.4.6 To secure the sweatband, bartack over alternate stitching on the webbing, beginning at the centre back for a total of seven bartacks. The stitching must be done through all layers. Care must be taken to ensure that the sweatband is in the appropriate position while stitching through all layers.

3.7.4.7 The toggle must be placed on the chinstrap ensuring that it is secured by knotting the end of the cording.

3.8 **Finishing.** Following assembly, the hat must be steamed to remove wrinkles and to provide a uniform finish on the hat.

3.9 **Identification label.** The label identification described in 3.4.13 must be top-stitched (on all four sides) within the pocket of the cap.

3.10 Scale of Measurements.

The finished hat must meet the dimensional requirements stated in the Scale of Measurements in Table II. Following finishing, and prior to attaching the identification label, it must be verified that the size of the hat is within tolerance, according to the method defined in Table II

4 QUALITY CONTROL/INSPECTION

4.1 Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Contractors may utilize their own or any other inspection facility acceptable to the Government or its designated representative. The Government reserves the right to perform any of the inspections specified herein, where such inspections are deemed necessary to ensure materiel and services conform to prescribed requirements. The contractor is responsible for ensuring that all material or services submitted to the Government for acceptance comply with all requirements of the contract.

5 PACKAGING

5.1 **Packaging and Packing.** Unless otherwise specified, packaging and packing as well as delivery must be in accordance with the terms of the contract.

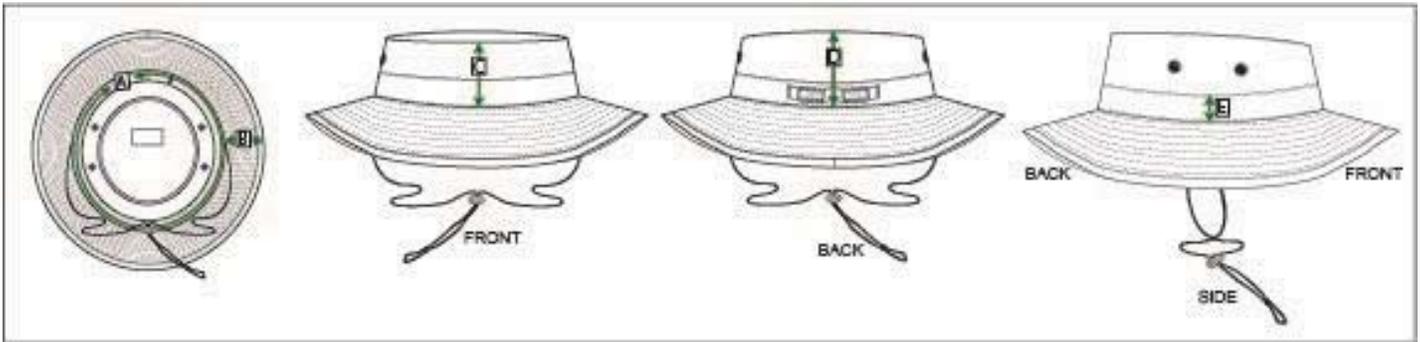
6 NOTES

6.1 All alternative materials must be submitted to the Design Authority for approval. Requests for approval of alternative materials must be accompanied by a sample of each material proposed, test reports applicable to the material supporting its equivalency to the specified material, and a sample hat incorporating the alternative material. Alternative materials must be pre-approved by the Design Authority prior to their use in production.

6.2 Definition of Terms

- 6.2.1 **Design Authority.** The Design Authority is the Government agency responsible for the technical aspects of the design and changes to the design. The Design Authority for this requirement is the Directorate Soldier Systems Program Management (DSSPM 2), Department of National Defence.
- 6.2.2 **Sealed Pattern.** The sealed pattern is a duplicate of the Master Sealed Pattern which is the Department of National Defence's authorized prototype of the item to be produced.
- 6.2.3 **Quality Assurance Authority.** The Quality Assurance Authority (QAA) is the government appointed agency responsible for ensuring that material and services supplied by the contractor conform to specified requirements. The QAA will be stipulated in the contract.
- 6.2.4 **Safety, Health and Environmental Concerns.** The production of a product to this specification, or the evaluation of a product to this specification, may require the use of materials and/or equipment that could be hazardous. This specification does not purport to address all safety, health and environmental concerns, if any associated with its use. It is the responsibility of the user of this specification to establish appropriate safety, health and environmental practices and to determine the applicability of regulatory limitations prior to use.

Table II – Scale of Measurements



REF.	TOL.	SIZES											
		6-1/2	6-5/8	6-3/4	6-7/8	7	7-1/8	7-1/4	7-3/8	7-1/2	7-5/8	7-3/4	7-7/8
A	N/A	20-1/2	20-7/8	20-1/4	21-5/8	22	22-3/8	22-3/4	23-1/8	23-1/2	23-7/8	24-1/4	24-5/8
B	+1/8	2-1/2	2-1/2	2-1/2	2-1/2	2-1/2	2-1/2	2-1/2	2-1/2	2-1/2	2-1/2	2-1/2	2-1/2
C	+1/8	2-3/4	2-3/4	2-3/4	2-3/4	2-3/4	2-3/4	2-3/4	2-3/4	2-3/4	2-3/4	2-3/4	2-3/4
D	+1/8	3-1/2	3-1/2	3-1/2	3-1/2	3-1/2	3-1/2	3-1/2	3-1/2	3-1/2	3-1/2	3-1/2	3-1/2
E	+1/8	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4

FIGURE 1: HAT, SUN, TEMPERATE WEATHER, COMBAT, TYPE I, II and III - FRONT AND BACK

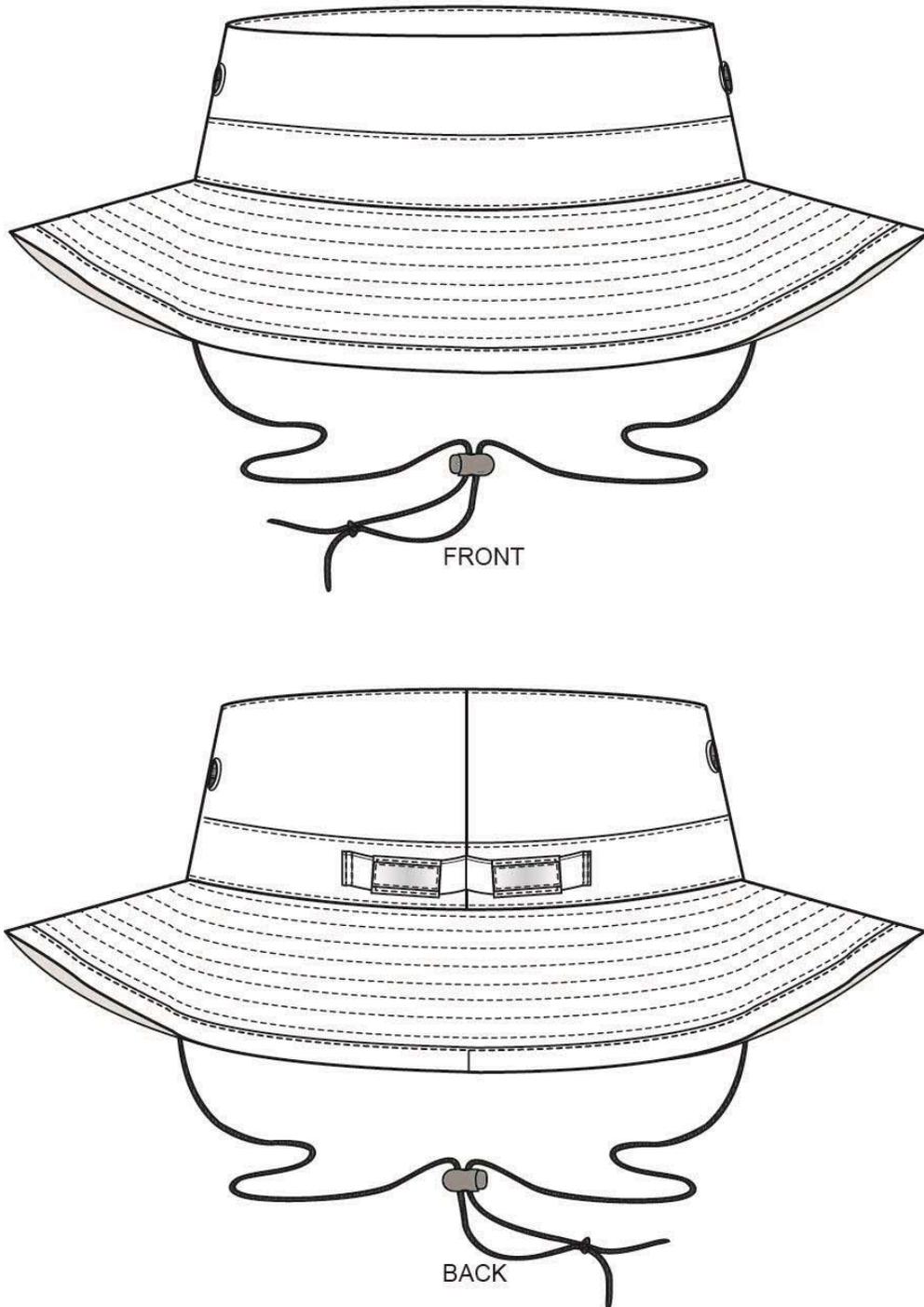


FIGURE 2: HAT, SUN, TEMPERATE WEATHER, COMBAT, TYPE I, II and III - FRONT AND BACK DETAILS

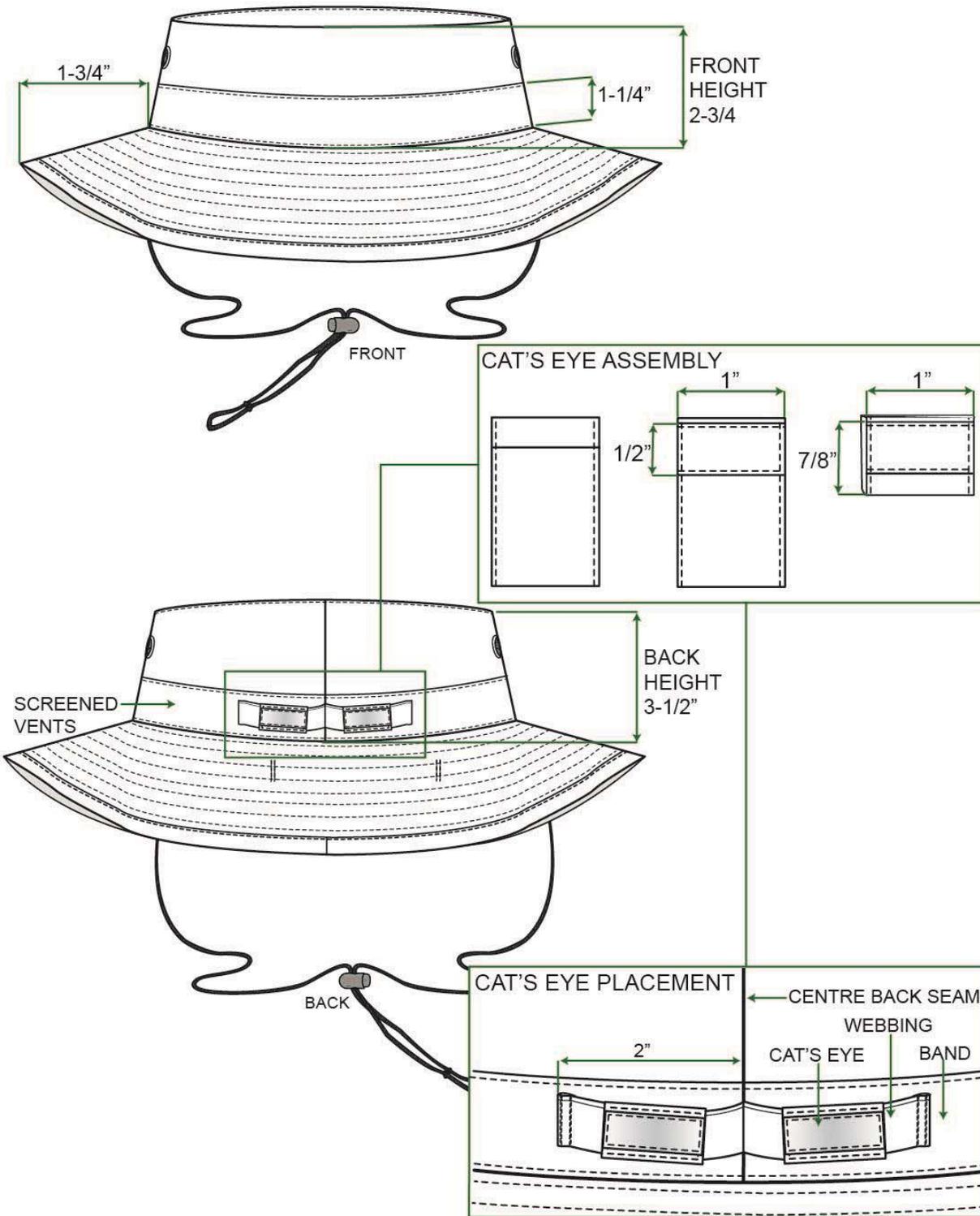


FIGURE 3: HAT, SUN, TEMPERATE WEATHER, COMBAT, TYPE I, II and III - SIDE VIEW

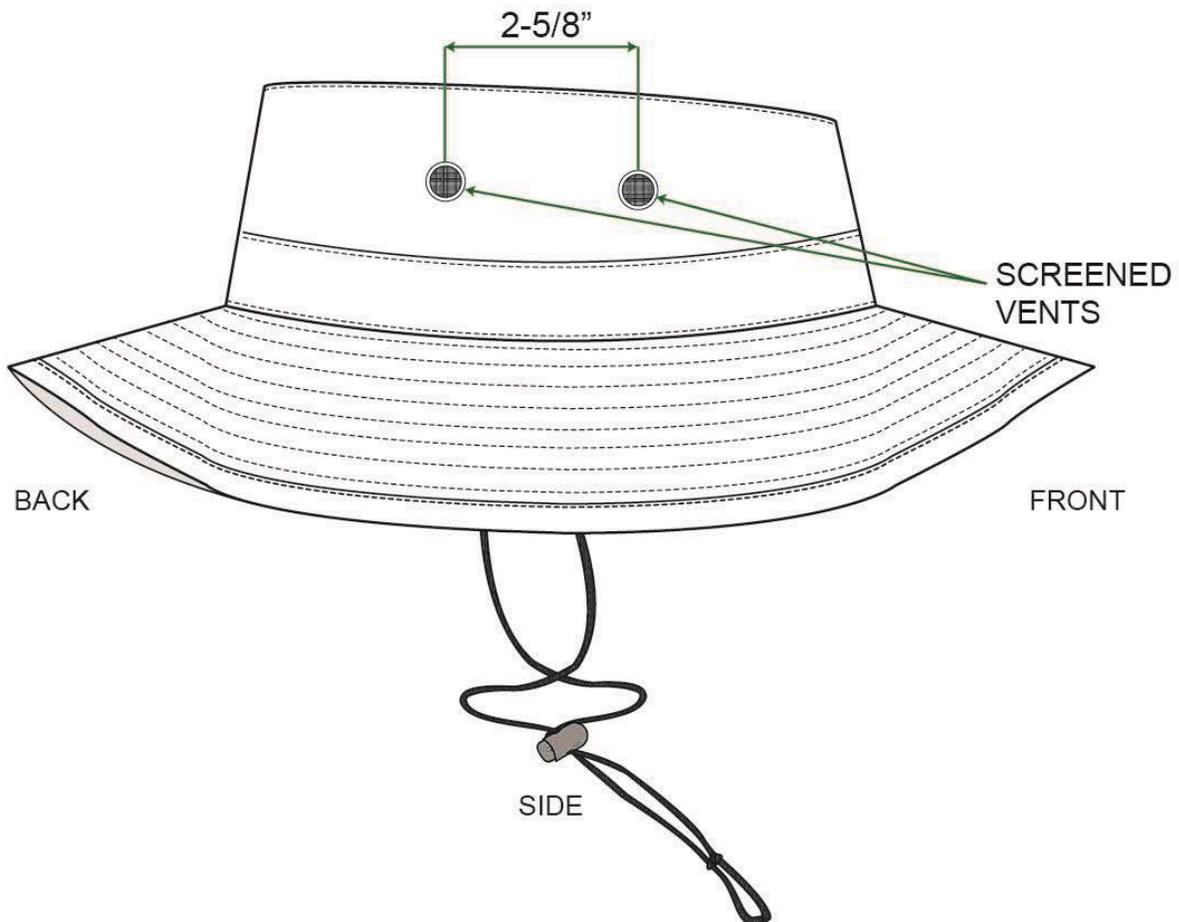


FIGURE 4: INSIDE DETAILS

