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**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 JACKET PATROL SOFTSHELL	
Solicitation No. - N° de l'invitation M0077-15I105/B	Amendment No. - N° modif. 001
Client Reference No. - N° de référence du client M0077-15I105	Date 2016-05-11
GETS Reference No. - N° de référence de SEAG PW-\$\$PR-723-70898	
File No. - N° de dossier pr723.M0077-15I105	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-05-20	
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: Gravel, Sylvie	Buyer Id - Id de l'acheteur pr723
Telephone No. - N° de téléphone (613) 240-7281 ()	FAX No. - N° de FAX (819) 956-5454
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: See herein/ Voir ci-inclus	

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

Solicitation No. - N° de l'invitation
M0077-151105/B
Client Ref. No. - N° de réf. du client
M0077-151105

Amd. No. - N° de la modif.
001
File No. - N° du dossier
pr723.M0077-151105

Buyer ID - Id de l'acheteur
pr723
CCC No./N° CCC - FMS No./N° VME

AMENDMENT 001

The purpose of this solicitation amendment is to notify bidders that the RCMP specification G.S. 1045-354 has been revised and to provide a copy of the revised specification dated 2016-05-10.

Bidders are to refer to page 2 to have a list of the revisions.

All other terms and conditions remain the same.

A bid already submitted may be amended prior to RFP closing time by sending the amended correspondence to Bid Receiving Unit, the envelope/message bearing the PWGSC file number and the most current closing date.



Royal Canadian Mounted Police
Gendarmerie royale du Canada

Doc. no: G.S. 1045-354

Date: 2016-05-10

Specification

Jacket, Patrol, Soft Shell

This document has 35 pages including the drawings.

This document was created in English.

The document is available in English and French.

☒ English/Anglais
Français/French

The photograph on this page is for reference only.



Modifications

[illegible]

RCMP VIEWING SAMPLE

A viewing sample, when available, will be supplied to the successful bidder.

This will be used for the guidance of the manufacturer in all factors not covered by this specification or referred to therein. Variation from the specification may appear in the sample in which case the specification shall govern.

It may be obtained from:

Royal Canadian Mounted Police
ATTN: Uniform and Equipment Program
(440 Coventry Road, Warehouse Building)
1200 Vanier Parkway
Ottawa, Ontario
K1A 0R2

It will be sent “prepaid” and is to be returned “prepaid”.

The viewing sample shall be returned to the RCMP in the same condition as received by the manufacturer. Lost or damaged viewing samples shall be replaced by an identical item or the RCMP shall be reimbursed for the cost of an acceptable replacement.

SPECIFICATION

Jacket, Patrol, Soft Shell

1. Definitions

- 1.1 This specification shall govern the manufacture and inspection of the Jacket, Patrol, Soft Shell. The specific item covered under this specification with stock number is as follows:
 - i. 4005 Jacket, Patrol, Soft Shell / Blouson de patrouille à coquille souple
 - ii. 4006-100 Jacket, Patrol, Soft Shell, Special / Blouson de patrouille à coquille souple, tailles spéciales
- 1.2 This specification, pattern, drawing, viewing sample, or other information issued in connection therewith, may only be used for specific enquiries, solicitations, or orders placed on behalf of the Royal Canadian Mounted Police.
- 1.3 This specification supersedes all previous specifications for R.C.M.P. Jacket, Patrol, Soft Shell.
- 1.4 This specification has been translated into French from this original English language document

2. Applicable Specifications

- 2.1 The following publications are applicable to this specification and to the issues in effect on the date of the solicitation, unless otherwise specified.
- 2.2 CAN/CGSB 4.2, Textile Test Methods; 5.1-M90 (2013), 6-2013, 11.2-M89 (R2013), 12.2-2012, 14-2005, 18.3-97 (R2010), 19.1-2004 (R2013), 22-2004 (R2013), 23-M90 (2004), 26.2-94 (R2012), 26.3 (2010), 36-M89 (2013), 37-2002 (R2013), 49-99 (R2013) and 58-2004.
- 2.3 FED-STD-191A, Federal Standard, Textile Test Methods; 4108 and 5516.
- 2.4 ASTM, American Society for Testing and Materials; Method D2594-04 (2012) e1, D3886-99 (2011) e1, D4966-98 (2007) e1, D5169-98 (2015), D5170-98 (2015) and F392-93.

- 2.5 AATCC American Association of Textile Chemists and Colorists - Technical Manual Methods; 8-2013, 61-2013, 135-2012.
- 2.6 ISO, International Standards Organization; 105-A2:1994, 105-B02:2014, 11092-2014, 4915:1991 and ISO 4916:1991, 4920:1981.
- 2.7 Kawabata KES-FB2 Bending Tester
- 2.8 CAN/CGSB 4.131-93, Thread, Polyester, Polyester Covered.
- 2.9 CAN/CGSB 86.1-2003, Care Labeling of Textiles.
- 2.10 RCMP Purchase Description, PD-PE-93, Police Patch, Reflective, Large & Small.
- 2.11 RCMP Specification, G.S.1045-266, Badges Woven Item - Badge, Shoulder, Cloth, Police.

3. **General Requirements**

- 3.1 The article or material covered by this specification shall be free from material and manufacturing defects that may affect its appearance or serviceability. In all particulars not covered by this specification or contract documents, production shall be equivalent in all respects to the pattern and viewing sample.
- 3.2 **Design** – The Jacket, Patrol, Soft Shell shall be a semi-fitted, waist length jacket designed to be worn as a stand-alone garment as well as an additional layer in the outerwear garments. The shell material shall be water resistant and windproof. There shall be a Police hide away patch on the front and back and four pockets on the front of the jacket.

4. **Detail Requirements**

4.1 **Components**

- 4.1.1 **Shell Material I (Face Fabric)** – The shell material meeting the requirements outlined in Table II shall be 94% nylon, 6% Elastane, with a 2-way weft stretch, dark navy blue with a durable water repellent finish. An appropriate heat-set process shall be applied to the shell material in order to be prepared for the

lamination of the water resistant moisture vapour permeable membrane specified in Para. 4.1.3.

- 4.1.2 **Shell Material II (Fleece Fabric)** – The shell material meeting the requirements outlined in Table III shall be 100% polyester fleece, black in colour.
- 4.1.3 **Shell Material III (Water Resistant, Windproof, Moisture Vapour Permeable Membrane)** – Shall consist of a membrane which is laminated in a 3-layer format and provides a high level of durability, water resistance, windproofness and breathability. The outer layer shall consist of shell material as specified in Para. 4.1.1, with the membrane as the middle layer, and the material as specified in Para. 4.1.2 as the back layer. The layers shall be joined together by a suitable lamination process. The membrane when laminated to the shell and fleece material shall meet the test requirements outlined in Table I forming part of this specification. Any 3-layer composite fabric not meeting these requirements will be a cause for rejection. Any materials showing any form of delamination shall be cause for rejection.
- 4.1.4 **Shell Material IV** – Shall be 100% nylon Supplex, with a weight of $95 \text{ g/m}^2 \pm 5 \text{ g/m}^2$, in a navy colour to match the shell material. The material shall have a colourfastness to light value of no less than L 3-4 and shall have a water repellency of 80 after 10 home launderings. Doubletex Jr. Supplex MU2 is known to meet the requirement.
- 4.1.5 **Mesh Pocketing** – The pocketing shall be a polyester, warp knit mesh, black in colour or to match the shell material, meeting the requirements outlined in Table IV. Tek-Knit “XPTAR004” is known to meet the requirement.
- 4.1.6 **Interfacing** – the interfacing shall be 100% polyester or polyester/rayon blend non-woven, with a mass of $51 \text{ g/m}^2 \pm 5 \text{ g/m}^2$.
- 4.1.7 **Thread** – The thread shall be polyester wrap, polyester core, Tex 50, Class B of matching colour, meeting CAN/CGSB 4.131-93.
- 4.1.8 **Elastic Drawcord** – The drawcord shall be round braided polyester elastic, black in colour, 2.4 mm, with maximum elongation of 135% and full recovery. Cansew style #EBR C-38 is known to meet the requirement.
- 4.1.9 **Elastic - Side Seam Strap** – The elastic shall be 2.5 cm wide heavy duty nylon or polyester, black in colour, with maximum elongation of 130% and full recovery. The elastic shall be used in a double layer for the side seam closure strap.

4.1.10 Cord Locks

- 4.1.10.1 **Cord Lock - Hem** – The cord lock shall be low profile cord lock cylinder, spring loaded in acetyl composition, black in colour. The cord lock for the hem channel shall be shaped with a maximum diameter of 13 mm and a maximum depth of 11.2 mm. Texfast style #S217B is known to meet the requirement.
- 4.1.10.2 **Toggle Lock** – The lock shall be oval shaped with a maximum length of 30 mm and a maximum width of 9 mm, with two 4 mm holes, acetyl composition, and black in colour. It may be of sew on or clamp-on version.
- 4.1.11 **Eyelets** – The eyelets shall be black in colour, 5-6 mm diameter hole, brass or aluminum.
- 4.1.12 **Dome Fastener** – The dome fastener shall be a standard type 24 ligne fastener. All metal parts to be brass with a 15 mm matte black, powder coated cap. Universal SW61 (only).
- 4.1.13 **Grosgrain Ribbon** – Shall be nylon grosgrain ribbon, black in colour and come in 1 cm width.
- 4.1.14 **Webbing, Microphone Strap** – The webbing shall be a durable nylon webbing, luggage quality, black in colour measuring 2.54 cm (1”) wide and 0.04” ± 0.01” thick. It shall have a minimum tensile strength of 1000 lbs. as per Federal Standard 191-5206 test method #4108. Tape Craft #N0015-1”-YD001-352 is known to meet the requirements.

4.1.15 **Slide Fasteners – Lengths – Measurements in Inches**

Height Group	Sizes	Front	Side seam	Upper Chest Pockets	Lower Front Pockets	Front Police Patch Pocket
X-Short	XX Small	16"	13½"	7½"	6½"	6½"
	X Small	17"	14"	7½"	6½"	6½"
	Small	17½"	14½"	7½"	6½"	6½"
	Medium	18"	15"	7½"	6½"	6½"
	Large	19"	15½"	7½"	6½"	6½"
	X Large	19½"	16"	7½"	6½"	6½"
	2X Large	20½"	16½"	7½"	6½"	6½"
	3X Large	21"	17"	7½"	6½"	6½"
	4X Large	22"	17½"	7½"	6½"	6½"
	5X Large	22½"	17½"	7½"	6½"	6½"
Short	XX Small	18"	16"	7½"	7"	6½"
	X Small	18½"	16½"	7½"	7"	6½"
	Small	19½"	17"	7½"	7"	6½"
	Medium	20"	17½"	7½"	7"	6½"
	Large	20½"	17½"	7½"	7"	6½"
	X Large	21½"	18"	7½"	7"	6½"
	2X Large	22½"	18½"	7½"	7"	6½"
	3X Large	23"	19"	7½"	7"	6½"
	4X Large	24"	19½"	7½"	7"	6½"
	5X Large	24½"	19½"	7½"	7"	6½"
Regular	XX Small	20"	17½"	7½"	7½"	6½"
	X Small	20½"	18"	7½"	7½"	6½"
	Small	21½"	18½"	7½"	7½"	6½"
	Medium	22"	19"	7½"	7½"	6½"
	Large	23"	19½"	7½"	7½"	6½"
	X Large	23½"	20"	7½"	7½"	6½"
	2X Large	24"	20½"	7½"	7½"	6½"
	3X Large	25"	21"	7½"	7½"	6½"
	4X Large	25½"	21½"	7½"	7½"	6½"
	5X Large	26½"	21½"	7½"	7½"	6½"
Tall	XX Small	22"	19½"	7½"	8"	6½"
	X Small	22½"	20"	7½"	8"	6½"
	Small	23"	20½"	7½"	8"	6½"
	Medium	24"	21"	7½"	8"	6½"
	Large	24½"	21½"	7½"	8"	6½"
	X Large	25½"	22"	7½"	8"	6½"
	2X Large	26"	22½"	7½"	8"	6½"
	3X Large	27"	23"	7½"	8"	6½"
	4X Large	27½"	23"	7½"	8"	6½"
	5X Large	28½"	23½"	7½"	8"	6½"
X Tall	XX Small	23½"	21½"	7½"	8"	6½"
	X Small	24½"	22"	7½"	8"	6½"
	Small	25"	22½"	7½"	8"	6½"
	Medium	26"	23"	7½"	8"	6½"
	Large	26½"	23½"	7½"	8"	6½"
	X Large	27"	24"	7½"	8"	6½"
	2X Large	28"	24½"	7½"	8"	6½"
	3X Large	28½"	24½"	7½"	8"	6½"
	4X Large	29½"	25"	7½"	8"	6½"
	5X Large	30"	25½"	7½"	8"	6½"

- 4.1.15.1 **Slide Fastener - Front** – Shall be an open-end separator, black in colour, injection molded, DA automatic slider, Vislon® YKK 26500 VSO 56 9/16 (only).
- 4.1.15.2 **Slide Fastener - Upper & Lower Front Pockets** – Shall be a closed end, coil type, slide fastener with a DF non-lock slider, black in colour, with long, black enamel pull tabs, YKK 12430 CIFIC 51 DFL1 E 5/8 (only).
- 4.1.15.3 **Slide Fastener - Side Seam** – Shall be coil type chain, black in colour with three black enamel, round, DFBW sliders, two arranged in a head to head position and one opening from the bottom. The tape shall face the outside of the garment. YKK 13063 CIFMC 51/1/1 DFBW E 5/8 *BB*HH*GAP0* TBO*REV* or 61351 5 CI CH 5/8 *200MTS/RL* with 75480 5 CN DFBW E.
- 4.1.15.4 **Slider Fastener – Front Police Patch Pocket** – Shall be coil type chain 45CF CH 9/16, black in colour with a black enamel, round, pull tab, DFBWO slider. The tape shall face the outside of the garment. YKK 20653 CFC 451 DFBWO E 9/16 *TBO*GAP-0*REV* or 60821 45 CF CH 9/16*200MTS/RL* with 72370 45 CF DFBWO E.
- 4.1.16 **Hook and Loop Tape** – The hook and loop tape shall be woven nylon, black in colour, with a high life cycle. The combined hook and loop shall have no less than 8 P.S.I length-wise shear strength with initial peel strength of not less than 1 P.I.W. when tested to ASTM D5169-98 (2015), standard test method for shear strength [dynamic method] of hook and loop touch fasteners and ASTM D5170-98 (2015), standard test method for peel strength ["T" method] of hook and loop touch fasteners."
- 4.1.17 **Reflective Police Patches** – The RCMP stock item number 8653-100, Police Patch, Reflective, Large and RCMP stock item number 8654-100, Police Patch, Reflective, Small shall be purchased from the RCMP.
- 4.1.18 **Shoulder Badges** – The RCMP stock item number 2135-108, Badge, Shoulder, Police shall be purchased from the RCMP.
- 4.2 **Size and Dimensions** – Jacket, Patrol, Soft Shell to this specification shall be supplied in the sizes specified by the RCMP and to the dimensions given in the scale of measurements and drawings forming part of this specification. The garment components shall be shaped, dimensioned and positioned in accordance with the pattern components and pattern requirements as outlined in Appendix A forming part of this specification.

4.3 **Construction**

4.3.1 **Stitching** - All stitching shall be lockstitch. There shall be not less than three or more than four stitches per centimetre. The beginning and ending of all stitching shall be securely backstitch tacked, unless secured by other stitching. All topstitching as indicated in the drawings and on the sample shall be sewn using a 2 mm gauge.

4.3.2 **Body**

4.3.2.1 **Back & Back Yoke** – The back body, made from shell material III as specified in Para. 4.1.3, shall have a two piece back with an envelope opening to store the police patch. The large ‘hide away’ police patch shall be constructed from shell material IV as specified in Para. 4.1.4 and a reflective police patch as per Para. 4.1.17. It shall be shaped and dimensioned as per the patterns and applied to the back yoke. The large ‘hide away’ patch shall have three pieces of hook tape as specified in Para. 4.1.16 applied as per the pattern and drawing # 6 and shall have three pieces of corresponding loop tape applied to the inside facing. The back yoke shall be faced with shell material IV as per Para. 4.1.4 and shall be topstitched from sleeve seam to sleeve seam as shown in drawing # 6. The yoke opening shall also be stitched from the sleeve seam to within a range of 1.3 cm (½”) – 1.9 cm (¾”) of the police patch. The back shall have two pieces of loop tape 2.5 cm x 1.6 cm sewn to the body for the attachment of the back police patch when in an open position. The back and back yoke when finished shall be shaped and dimensioned as per the pattern and viewing sample.

4.3.2.2 **Back Hem Channel** – The back hem facing, made of shell material IV as specified in Para. 4.1.4 shaped and dimensioned as per the pattern, shall be sewn face side out to the bottom of the jacket back to create a hem channel for the elastic drawcord. The hem channel shall have two eyelets as per Para. 4.1.11, 4 cm from the left side seam as identified in drawing # 4. An elastic drawcord as specified in Para. 4.1.8 shall be securely attached into the right side seam and threaded through the hem channel. It shall continue through the cord lock as specified in Para. 4.1.10.1, and through the eyelet outside the hem channel. It shall be threaded through the toggle lock as specified in Para. 4.1.10.2 and back through a second eyelet. It shall continue back through the cord lock where the drawcord shall be knotted. When assembled completely, the cord lock shall be hidden in the channel with only the looped end of the elastic drawcord and the toggle lock showing as per drawings # 4. When the hem is laid flat, the elastic drawcord shall be laid flat.

- 4.3.2.3 **Front** – The jacket shall be equipped with a center front slide fastener, length as specified in Para 4.1.15. There shall be an interior storm flap made from shell material IV as specified in Para. 4.1.4, lined with an interfacing as specified in Para. 4.1.6 attached to the right front. The front shall have five pockets, two upper pockets, two lower pockets, and one chest pocket to store the small hide away police patch. All shall come with slide fasteners as specified in Para. 4.1.15. The right front yoke shall have an 8.5 cm x 2.5 cm piece of loop tape as specified in Para. 4.1.16 for the name tag 2.5 cm above the police patch pocket. Both left and right front yokes shall be equipped with nylon webbing, as specified in Para. 4.1.14, 5 cm x 2.5 cm for the microphone loop positioned as per pattern. Care shall be taken to ensure the front right and left yokes are aligned horizontally. All components of the front shall be constructed as per the patterns and drawings.
- 4.3.2.4 **Chest Pockets** – The jacket shall have two vertical, upper front pockets with slide fasteners as specified in Para. 4.1.15.2 and length as outlined in Para. 4.1.15. A ribbon pull as specified in Para. 4.3.10 shall be attached to each slider. Each slide fastener shall be covered by a flap created from shell material III as specified in Para. 4.1.3 and shell material IV as specified in Para. 4.1.4 and shall be dimensioned in accordance with the patterns. The slider shall be in an upright position when the pocket is closed. There shall be a horizontal pocket on the right front positioned between the yoke and the body. It shall have a slide fastener as specified in Para. 4.1.15.4 and shall be near to center front when in a closed position. The horizontal pocket shall have a small patch constructed from shell material IV as specified in Para. 4.1.4 and a small reflective police patch as per Para. 4.1.17 and drawing # 6. The reflective police patch shall be sewn on top of the pull-down with the side edges folded between the seams. The pocket bags shall be constructed from mesh material as specified in Para. 4.1.5 dimensioned and positioned as per the patterns and drawings. The pocket bag that forms the horizontal pocket on the right side shall have a stitching line 9 cm from the top of zipper to create the pocket bag for the horizontal chest pocket.
- 4.3.2.5 **Lower Pockets** – The jacket shall have two lower front pockets. Each pocket shall have a slide fastener as specified in Para. 4.1.15.2, and length as specified in Para. 4.1.15. A ribbon pull as specified in Para. 4.3.10 shall be attached to each slider. The slide fastener shall be exposed and the slider shall be in an upright position when the pocket is closed. The pocket bags shall be constructed from shell material IV as specified in Para. 4.1.4 and mesh material as specified in Para. 4.1.5 dimensioned and positioned as per the patterns and drawings.
- 4.3.3 **Side Seams** – Both side seams from sleeve underarm to hem shall be equipped with a slide fastener as specified in Para. 4.1.15.3, and length as specified in Para. 4.1.15.

There shall be three sliders, the two closest to the underarm should be in a head to head position and the third shall be opening from the bottom upwards as shown in drawing # 4. The slide fastener tape shall be visible from the outside of the jacket with the teeth facing the inside of the jacket. All sliders shall be equipped with ribbon pulls as specified in Para. 4.3.10. The side seam hem shall have an elastic closure strap as specified in Para. 4.3.11 constructed as per drawing # 4 and the viewing sample.

- 4.3.4 **Collar** – The collar shall be made of shell material III as specified in Para. 4.1.3. The collar shall have two layers. The under collar shall have the face of the material against the outside of the jacket and the top collar shall have the back (fleece) of the material facing the inside of the garment so when worn the fleece is against the wearers neck. The collar shall be dimensioned as per pattern.
- 4.3.5 **Sleeve** – The jacket shall have a two piece sleeve. The sleeve hem shall be 3 cm wide with a 12.5 ± 0.5 cm x 2 cm piece of loop tape to secure the adjustment strap. The adjustment strap shall be made from one layer of shell material III as specified in Para. 4.1.3 and one layer of shell material IV as specified in Para. 4.1.4 and measure 9.5 cm x 2.5 cm with a 7.5 ± 0.5 cm x 2 cm hook tape applied as per pattern. Shell material III shall be face up and shell material IV shall be against the sleeve. The sleeves and adjustment strap shall be shaped and dimensioned as per the patterns and viewing sample.
- 4.3.6 **Shoulder Straps** – Two shoulder straps shall be made from one layer of shell material III as specified in Para. 4.1.3 and one layer of shell material IV as specified in Para. 4.1.4 shaped and dimensioned in accordance with the patterns and drawing # 5. Shell material III shall be face up and shell material IV shall be against the body of the jacket. They shall be sewn into the sleeve-head and positioned as per the pattern and viewing sample. The shoulder strap shall lay flat without pulling and be secured to the jacket shoulder with a dome fastener as specified in Para. 4.1.12.
- 4.3.7 **‘Hide Away’ Police Patches** – The front and back ‘hide away’ patches shall be constructed from a single layer of shell material IV as specified in Para. 4.1.4 folded in half with the raw ends turned inside and sewn. The finished dimensions of the front patch shall be 12.5 cm x 6.5 cm and it shall lay flat when pulled through the zipper opening. The finished dimensions of the back patch shall be 29 cm x 9.5 cm. A small and large fluorescent yellow police patch as specified in Para. 4.1.17 shall be sewn on respectively leaving 5 mm with a tolerance of + 2 mm of navy material visible at the top. Both ends of the fluorescent yellow police patch shall be folded under and sewn into the patch side seams. The remainder of the

fluorescent yellow police patch shall be topstitched on top of the 'hide away' patch. The back 'hide away' patch shall have hook tape attached to the back side for attachment when in a closed position. All 'hide away' patches shall be constructed as per drawing #6.

- 4.3.8 **Shoulder Badges** – The RCMP shoulder badge specified in Para. 4.1.18 shall be applied to each sleeve. The badge is to be centered on the sleeve-head 2.5 cm below the sleeve-head seam. The badge shall be attached with one row of stitching.
- 4.3.9 **Coat Hanger** – A 6 – 7 cm long coat hanger, constructed from grosgrain ribbon as specified in Para. 4.1.13 shall be centered at the neck in accordance with the viewing sample.
- 4.3.10 **Slide Fastener Ribbon Pulls** – All ribbon pulls shall be constructed with grosgrain ribbon as specified in Para. 4.1.13. The ribbon shall applied to the hole of the slide fastener pull in a way that allows the ribbon pulls to be removed easily without damage and reapplied. The ribbon pull should be 5 cm ± 0.5 cm in length when finished and attached to the slide fastener.
- 4.3.11 **Side Seam Closure Strap** – There shall be a side seam closure strap measuring 9 cm ± 0.5 cm in length when finished at the side seam hem. It shall be constructed from elastic as specified in Para. 4.1.9, doubled and shall be sewn to the lower back hem near the side seam flipping toward the front. A female dome fastener as specified in Para. 4.1.12 shall be applied to the side seam closure strap and the corresponding male dome fastener shall be applied to the jacket front hem near the side seam. The strap shall not pull when the jacket is placed flat.
- 4.3.12 **Identification Label** – Each jacket shall have a durable blank label 7.5 cm x 2 cm applied separately below the marking and cleaning label used for the inscription of the wearers' name.
- 4.3.13 **Marking & Cleaning Instructions Label** – Each jacket shall have a durable label positioned and sewn to the bottom of the inside pocket bag as shown in drawing #5. The label information shall be as outlined below in a font no less than size 8. The text shall be of permanent inks of a contrasting colour and shall withstand at least 50 washes showing no apparent change in appearance. The label shall be completed in accordance with the following information in English and French.
1. Item name in English as written in Para. 1.1.
 2. Item name in French as written in Para. 1.1.
 3. RCMP stock number - reference contract documents. (Ex. 4005 000)

4. Size and height group of the article, combining the size designation referenced in the English and French contract documents. (Ex. L/R - G/R)
5. Date of manufacture, in numeric format year/month (Ex. 2001/11)
6. Your manufacturer identification (Company name or number).
7. Print information as shown below.

1		
2		
3		
4		
5		
6		
7	Machine wash - warm (40°C)	Laver à la machine – à l’eau tiède (40°C)
	Do Not use fabric softener or chlorine bleach	Ne pas utiliser d’agent adoucissant ou d’agent de blanchiment
	Tumble dry- medium (Do Not use dryer sheets)	Séchage par culbutage – à température moyenne (Ne pas utiliser d’assouplissant en feuilles)
	Steam iron - low	Repassage à vapeur - à température basse
	DO NOT DRY CLEAN.	NE PAS NETTOYER À SEC.
	Further care instructions: See Ordering Guide.	Instructions d’entretien supplémentaires: Voir le guide de commande.

Note: The manufacturer’s identification shall not appear anywhere on the garment except on the garment label as indicated.

- 4.3.14 **Instruction Sheet** – Each completed jacket shall have an instruction sheet included in Appendix B English and French, folded and inserted into the chest pocket bag. It is the responsibility of the manufacturer to verify with the material supplier the information outlined in the document and make changes if and when required.

5. **Quality Assurance Provisions**

- 5.1 **Responsibility for Inspection** – Unless otherwise stipulated in the contract, it is the prime contractor's responsibility to satisfy the RCMP, Uniform and Equipment Program that the material and services being supplied conform to this specification. This may be accomplished by performing the tests specified in this specification or by demonstrating to the satisfaction of the RCMP, Uniform and Equipment Program that conformity to this specification of manufacturing processes is assured. The contractor must use any independent, North American, ISO 9001 certified and ISO 17025 “Textile” certified testing facilities. Note: CTT Group Inc., Quebec, is known to meet this requirement.

- 5.2 The RCMP, Uniform and Equipment Program reserves the right to perform any inspection considered necessary to ensure the material and services conform to the specified requirements. For the purpose of inspection, a portion of each delivery not exceeding two percent or two out of any number delivered under 100 may be put to tests that could destroy the articles. If found to be inferior or not in accordance with this specification, all articles so destroyed shall be replaced by others of proper quality and pattern at the expense of the contractor. The entire delivery may also be rejected if it is found that articles previously rejected due to non-repairable defects are redelivered for inspection.
- 5.3 The contractor will be promptly notified when any articles are not accepted and such articles will be returned at the contractor's risk and expense.

6. **Scale of Measurement Definitions and Location References**

(Refer to the Scale of Measurements and Drawing No. 1).

- 6.1 **Chest Circumference (total circumference)** - When placed flat, the chest circumference shall be the distance across the jacket, measured at the widest part of the chest. The result shall be doubled to measure total circumference. (A).
- 6.2 **Bottom Circumference (total circumference)** - When placed flat, the bottom shall be measured across the jacket bottom. The result shall be doubled to measure total circumference. (B).
- 6.3 **Front Length** - The length shall be the distance measured from the top of the collar to the hem at front. (C).
- 6.4 **Side Length** - The length shall be the distance measured from the underarm seam at the side to the hem. (D).
- 6.5 **Full Shoulder Width** - The distance measured at the shoulder seam from neckline to armhole. (E).
- 6.6 **Sleeve Length Overarm** - The overarm sleeve length shall be the distance from the armhole at the shoulder seam to the bottom edge of the sleeve cuff. (F).
- 6.7 **Sleeve Length Underarm** - The underarm sleeve length shall be the distance under sleeve from the underarm seam to the bottom edge of the sleeve cuff. (G).
- 6.8 **Sleeve Cuff Circumference (Relaxed)** - The sleeve cuff shall be measured at the bottom edge of the sleeve. The result shall be doubled to measure total circumference. (H).
- 6.9 **Elbow Circumference** – The sleeve shall be folded in half to the underarm seam. The elbow shall be measured across the width of the sleeve at the fold. The result shall be doubled to measure total circumference. (J)
- 6.10 **Back Length** - The length shall be the distance measured from the bottom of the collar at the back to the hem. (K)
- 6.11 **Back Width** - When placed flat, the distance measured across the back from armhole to armhole at the yoke seam. (L).

- 6.12 **Collar Length** – The collar length shall be measured along the seam from slide fastener to slide fastener. (M).

Scale of Measurements – Jacket, Patrol, Soft Shell															
SIZE DESIGNATION		BODY MEASUREMENTS		GARMENT MEASUREMENTS											
Height Group	Size	Chest		Chest Circumference	Front Length (top of collar to hem)	Side Seam Length (underarm to hem)	Full Shoulder Width (Shoulder seam from neckline to armhole)	Sleeve Length		Cuff Circumference	Elbow Circumference	Back Length (Bottom of collar at back to hem)	Back Width	Collar Length (zipper to zipper)	
		Inches	cm					Overarm (Shoulder seam to cuff)	Underarm (Underarm seam to cuff)						
X Short	XXS	31" - 33"	79 - 84	92	41.25	36.25	13	50.25	37.75	26.5	37.5	50.5	40.25	46	
	XS	34" - 36"	86 - 91	99.5	43	37.5	14	52	39	27.5	39	52.5	42.75	47.75	
	S	37" - 39"	94 - 99	107	45	38.75	15	53.75	40.25	28.5	40.5	54.5	45.25	49.5	
	M	40" - 42"	102 - 107	114.5	46.75	40	16	55.5	41.5	29.5	42	56.5	48	51.25	
	L	43" - 45"	109 - 114	121.5	48.5	41.25	17.25	57.25	42.5	30.5	43.5	58.5	50.5	53	
	XL	46" - 48"	117 - 122	129	50.5	42.5	18.25	59	43.75	31.5	45	60.5	53	54.75	
	2XL	49" - 51"	124 - 129	136.5	52.25	44	19.25	60.75	45	32.5	46.5	62.5	55.5	56.5	
	3XL	52" - 54"	132 - 137	144	54	45.25	20.25	62.5	46.25	33.5	48	64.5	58	58.25	
	4XL	55" - 57"	140 - 145	162	56	46.5	21.25	64.25	47.5	34.5	49.5	66.5	60.5	60	
	5XL	58" - 60"	147 - 152	169.5	57.75	47.75	22.25	66	48.75	35.5	51	68.5	63	61.75	
Short	XXS	31" - 33"	79 - 84	92	46	42	13	54.25	41	26.5	37.5	55.5	40.25	46	
	XS	34" - 36"	86 - 91	99.5	48	43.25	14	56	42.25	27.5	39	57.5	42.75	47.75	
	S	37" - 39"	94 - 99	107	49.75	44.5	15.25	57.75	43.5	28.5	40.5	59.5	45.25	49.5	
	M	40" - 42"	102 - 107	114.5	51.5	45.75	16.25	59.5	44.75	29.5	42	61.5	48	51.25	
	L	43" - 45"	109 - 114	121.5	53.5	47	17.25	61.25	46	30.5	43.5	63.5	50.5	53	
	XL	46" - 48"	117 - 122	129	55.25	48.5	18.25	63	47	31.5	45	65.5	53	54.75	
	2XL	49" - 51"	124 - 129	136.5	57	49.75	19.25	64.75	48.25	32.5	46.5	67.5	55.5	56.5	
	3XL	52" - 54"	132 - 137	144	59	51	20.25	66.5	49.5	33.5	48	69.5	58	58.25	
	4XL	55" - 57"	140 - 145	162	60.75	52.25	21.25	68.25	50.75	34.5	49.5	71.5	60.5	60	
	5XL	58" - 60"	147 - 152	169.5	62.5	53.5	22.5	70	52	35.5	51	73.5	63	61.75	
TOLERANCES ±				3	2	1.5	1	1.5	1.5	1	2	2	1	1	
MEASUREMENT LOCATION				A	B	C	D	E	F	G	H	J	K	L	M

NOTE: All dimensions are in centimetres unless otherwise indicated.

Scale of Measurements – Jacket, Patrol, Soft Shell

SIZE DESIGNATION		BODY MEASUREMENTS		GARMENT MEASUREMENTS											
Height Group	Size	Chest		Chest Circumference	Bottom Circumference	Front Length (top of collar to hem)	Side Seam Length (underarm to hem)	Full Shoulder Width (Shoulder seam from neckline to armhole)	Sleeve Length		Cuff Circumference	Elbow Circumference	Back Length (Bottom of collar at back to hem)	Back Width	Collar Length (zipper to zipper)
		Inches	cm						Overarm (Shoulder seam to cuff)	Underarm (Underarm seam to cuff)					
Regular	XXS	31" - 33"	79 - 84	101.5	92	51	47.75	13	58.25	44.5	26.5	37.5	60.5	40.25	46
	XS	34" - 36"	86 - 91	109	99.5	52.75	49	14.25	60	45.75	27.5	39	62.5	42.75	47.75
	S	37" - 39"	94 - 99	116.5	107	54.5	50.25	15.25	61.75	47	28.5	40.5	64.5	45.25	49.5
	M	40" - 42"	102 - 107	124	114.5	56.25	51.5	16.25	63.5	48	29.5	42	66.5	48	51.25
	L	43" - 45"	109 - 114	131.5	121.5	58.25	52.75	17.25	65.25	49.25	30.5	43.5	68.5	50.5	53
	XL	46" - 48"	117 - 122	139	129	60	54.25	18.25	67	50.5	31.5	45	70.5	53	54.75
	2XL	49" - 51"	124 - 129	146.5	136.5	61.75	55.5	19.25	68.75	51.75	32.5	46.5	72.5	55.5	56.5
	3XL	52" - 54"	132 - 137	154.5	144	63.75	56.75	20.5	70.5	53	33.5	48	74.5	58	58.25
	4XL	55" - 57"	140 - 145	162	151.5	65.5	58	21.5	72.25	54	34.5	49.5	76.5	60.5	60
	5XL	58" - 60"	147 - 152	169.5	159	67.5	59.25	22.5	74	55.25	35.5	51	78.5	63	61.75
Tall	XXS	31" - 33"	79 - 84	101.5	92	55.75	53.5	13.25	62.25	47.75	26.5	37.5	65.5	40.25	46
	XS	34" - 36"	86 - 91	109	99.5	57.5	54.75	14.25	64	49	27.5	39	67.5	42.75	47.75
	S	37" - 39"	94 - 99	116.5	107	59.25	56	15.25	65.75	50.25	28.5	40.5	69.5	45.25	49.5
	M	40" - 42"	102 - 107	124	114.5	61	57.25	16.25	67.5	51.5	29.5	42	71.5	48	51.25
	L	43" - 45"	109 - 114	131.5	121.5	63	58.5	17.25	69.25	52.5	30.5	43.5	73.5	50.5	53
	XL	46" - 48"	117 - 122	139	129	64.75	60	18.5	71	53.75	31.5	45	75.5	53	54.75
	2XL	49" - 51"	124 - 129	146.5	136.5	66.75	61.25	19.5	72.75	55	32.5	46.5	77.5	55.5	56.5
	3XL	52" - 54"	132 - 137	154.5	144	68.5	62.5	20.5	74.5	56.25	33.5	48	79.5	58	58.25
	4XL	55" - 57"	140 - 145	162	151.5	70.25	63.75	21.5	76.25	57.5	34.5	49.5	81.5	60.5	60
	5XL	58" - 60"	147 - 152	169.5	159	72.25	65	22.5	78	58.5	35.5	51	83.5	63	61.75
TOLERANCES ±				3	3	2	1.5	1	1.5	1.5	1	2	2	1	1
MEASUREMENT LOCATION				A	B	C	D	E	F	G	H	J	K	L	M

NOTE: All dimensions are in centimetres unless otherwise indicated.

Scale of Measurements – Jacket, Patrol, Soft Shell

SIZE DESIGNATION		BODY MEASUREMENTS		GARMENT MEASUREMENTS											
Height Group	Size	Chest		Chest Circumference	Bottom Circumference	Front Length (top of collar to hem)	Side Seam Length (underarm to hem)	Full Shoulder Width (Shoulder seam from neckline to armhole)	Sleeve Length		Cuff Circumference	Elbow Circumference	Back Length (Bottom of collar at back to hem)	Back Width	Collar Length (zipper to zipper)
		Inches	cm						Overarm (Shoulder seam to cuff)	Underarm (Underarm seam to cuff)					
X-Tall	XXS	31" - 33"	79 - 84	101.5	92	60.5	59.25	13.25	66.25	51.25	26.5	37.5	70.5	40.25	46
	XS	34" - 36"	86 - 91	109	99.5	62.25	60.5	14.25	68	52.25	27.5	39	72.5	42.75	47.75
	S	37" - 39"	94 - 99	116.5	107	64	61.75	15.25	69.75	53.5	28.5	40.5	74.5	45.25	49.5
	M	40" - 42"	102 - 107	124	114.5	66	63	16.5	71.5	54.75	29.5	42	76.5	48	51.25
	L	43" - 45"	109 - 114	131.5	121.5	67.75	64.5	17.5	73.25	56	30.5	43.5	78.5	50.5	53
	XL	46" - 48"	117 - 122	139	129	69.5	65.75	18.5	75	57.25	31.5	45	80.5	53	54.75
	2XL	49" - 51"	124 - 129	146.5	136.5	71.5	67	19.5	76.75	58.25	32.5	46.5	82.5	55.5	56.5
	3XL	52" - 54"	132 - 137	154.5	144	73.25	68.25	20.5	78.5	59.5	33.5	48	84.5	58	58.25
	4XL	55" - 57"	140 - 145	162	151.5	75.25	69.5	21.5	80.25	60.75	34.5	49.5	86.5	60.5	60
	5XL	58" - 60"	147 - 152	169.5	159	77	70.75	22.5	82	62	35.5	51	88.5	63	61.75
XX-Tall	XXS	31" - 33"	79 - 84	101.5	92	65.25	65	13.25	70.25	54.5	26.5	37.5	75.5	40.25	46
	XS	34" - 36"	86 - 91	109	99.5	67	66.25	14.5	72	55.75	27.5	39	77.5	42.75	47.75
	S	37" - 39"	94 - 99	116.5	107	68.75	67.5	15.5	73.75	57	28.5	40.5	79.5	45.25	49.5
	M	40" - 42"	102 - 107	124	114.5	70.75	69	16.5	75.5	58	29.5	42	81.5	48	51.25
	L	43" - 45"	109 - 114	131.5	121.5	72.5	70.25	17.5	77.25	59.25	30.5	43.5	83.5	50.5	53
	XL	46" - 48"	117 - 122	139	129	74.5	71.5	18.5	79	60.5	31.5	45	85.5	53	54.75
	2XL	49" - 51"	124 - 129	146.5	136.5	76.25	72.75	19.5	80.75	61.75	32.5	46.5	87.5	55.5	56.5
	3XL	52" - 54"	132 - 137	154.5	144	78	74	20.5	82.5	63	33.5	48	89.5	58	58.25
	4XL	55" - 57"	140 - 145	162	151.5	80	75.25	21.75	84.25	64	34.5	49.5	91.5	60.5	60
	5XL	58" - 60"	147 - 152	169.5	159	81.75	76.5	22.75	86	65.25	35.5	51	93.5	63	61.75
TOLERANCES ±				3	3	2	1.5	1	1.5	1.5	1	2	2	1	1
MEASUREMENT LOCATION				A	B	C	D	E	F	G	H	J	K	L	M

NOTE: All dimensions are in centimetres unless otherwise indicated.

TABLE I
Properties of Laminated Shell Material (with WMVP membrane & Fleece backing)

	Test	Duration/Conditions	Requirement	Test Method
1	Mass		290 g/m ² ± 20 g/m ²	<ul style="list-style-type: none"> CAN/CGSB-4.2 Method 5.1-M90 (2013)
2	Colourfastness to Light	- Face	Equal to or better than L4	<ul style="list-style-type: none"> CAN/CGSB-4.2 Method 18.3-97 (R2010) ISO 105-B02:2014
3	Colourfastness to Crocking Wet & Dry	- Face	Dry - Grey Scale 4 or better Wet - Grey Scale 3 or better	<ul style="list-style-type: none"> CAN/CGSB-4.2 Method 22-2004 (R2013)
4	Colourfastness to Washing	- Face	Colour change and staining on polyester and cotton – Grey Scale 4 or better	<ul style="list-style-type: none"> CAN/CGSB-4.2 Method 19.1-2004 (R2013) Test #2A ISO 105-A2:1994
5	Resistance of Materials to Water Vapour Diffusion	- Initial - After 5 launderings - After ageing (70°C & 95% RH for 168 hrs)	5 mm max	<ul style="list-style-type: none"> CAN/CGSB 4.2 Method 49-99 (R2013), Option 1 <p>*See test procedure #1</p>
6	Air Permeability	- Initial - After 5 launderings	<0.30 cm ³ /cm ² x S-1	<ul style="list-style-type: none"> CAN/CGSB-4.2 Method 36-M89 (R2013)
7	Resistance to Water Penetration Hydrostatic Pressure Test	- Initial - After 5 launderings	No leakage	<ul style="list-style-type: none"> CAN/CGSB 4.2 Method 26.3-2010 <p>*See test procedure #2</p>
		- After 100 hours of continuous wet flex(agitation)	No delamination	<ul style="list-style-type: none"> AATCC 135-2012 <p>* See test procedure #3</p>
		- After abrasion	No delamination No leakage	<ul style="list-style-type: none"> ASTM D3886-99 (2011)e1 – modified <p>* See test procedure #4</p>
8	Water Repellency	- Initial - After 10 launderings	Initial - 100 After 10 launderings – no less than 90	<ul style="list-style-type: none"> CAN/CGSB 4.2 Method 26.2-94(R2012) ISO 4920:1981
9	Thermal Resistance (CLO)	- Initial - After 5 launderings	No less than 0.25 and no more than 0.4	<ul style="list-style-type: none"> ISO 11092-2014(dry)
10	Burst Strength	- Initial	No less than 700 N	<ul style="list-style-type: none"> CAN/CGSB-4.2 Method 11.2-M89 (R2013)
11	Tearing Strength	- Initial - After 5 launderings	No less than Warp – 150 N Weft – 120 N	<ul style="list-style-type: none"> CAN/CGSB-4.2 Method 12.2-2012

	Test	Duration/Conditions	Specification	Test Method
12	Fabric Thickness	- Initial	No less than 1.2 mm and no more than 1.4 mm	<ul style="list-style-type: none"> CAN/CGSB-4.2 Method 37-2002 (R2013)
13	Kawabata Evaluation System	- Stiffness(gf.cm2/cm) - Length - Width	Length – no more than 0.7 Width – no more than 0.5	<ul style="list-style-type: none"> Kawabata Evaluation System Bending property (B mean) sensitivity: 5 X 1 Specimen width:10 cm *see test procedure #5
14	Dimensional Change to Domestic Washing	- After 3 cycles	No more than Warp – 3.5% Weft – 3.5%	<ul style="list-style-type: none"> CAN/CGSB-4.2 Method 58-2004, III, E, 2
15	Stretch		Warp – N/A Weft – 11% ± 4%	<ul style="list-style-type: none"> ASTM D2594-04 (2012)e1
16	Growth		No more than Warp – N/A Weft – 4%	<ul style="list-style-type: none"> ASTM D2594-04 (2012)e1
17	Abrasion Resistance	- After 4000 cycles	Colour change – No less than 4-5 Appearance change – No less than 4-5	<ul style="list-style-type: none"> ASTM D4966-2012 Pressure – 9 kPa Abradant – worsted wool

TEST PROCEDURES

1. The fleece side of the laminated cloth shall face the water. The tests shall be completed as outlined in CAN/CGSB 4.2 Method 49-99, Option #1. The samples shall be conditioned at $21^{\circ}\text{C} \pm 1^{\circ}\text{C}$ ($69.8^{\circ}\text{F} \pm 2^{\circ}\text{F}$) and relative humidity shall be $65 \pm 2\%$. The test specimen shall be placed approximately equidistant between the dry airflow and the water cell. Four specimens shall be tested per condition. The tests shall be completed initial, after 5 launderings according to CAN/CBSG-4.2 Method 58-2004, III, E, 2 and after ageing according to ASTM F392-93.
2. The shell side of the laminated cloth shall face the water. The hydrostatic head shall be 13.78 kPa (2.0 psi) and shall be held for 3 minutes. Leakage is defined as the appearance of water any place within the 11.43 cm (4.5") diameter test area. The test may be performed using any device which tests the same specimen area at the equivalent pressure. In case of dispute, the apparatus described in FED-STD-191A Method 5516 shall be used.
3. One 35.56 cm (14") by full width specimen shall be selected from each sample unit. The specimens shall be agitated using the 'normal' cycle in an automatic home laundering as specified in AATCC 135-2012 except that the machine shall be capable of continuous agitation. The water level shall be maintained at $72.74\ell \pm 4.55\ell$ (16 ± 1 gallons), no detergent is to be used, and the water temperature shall be $32^{\circ}\text{C} \pm 9^{\circ}\text{C}$. The load shall be .91

kg \pm .09 kg (2 lbs + 0.2 lbs). The specimen shall be removed from the washer after 100 hours of continuous agitation. The specimen shall be air dried and then tested for water penetration according to test procedure #2.

4. Five (5) specimens shall be abraded for 800 cycles on the face side and for 800 cycles on the back side. The abradant is to be 3M 600A grit sandpaper using four (4) psi pressure with 1 lb. weight. Following abrasion, test for water penetration as per procedure #2.
5. The Kawabata bending test is to be carried out on the **new** fabric. A new roll or bolt of fabric shall be submitted to the laboratory. The laboratory shall cut specimens from fabric taken directly from the roll or bolt. It is imperative that the new fabric and the test specimens be handled as little as possible prior to conducting the Kawabata bending test.

TABLE II
Properties of Shell Material I

REQUIREMENT			TEST METHOD
1	Colour	Navy To match colour swatch provided by Uniform and Equipment Program	
2	Fiber Content	94% Nylon, 6% Elastane \pm 2%	<ul style="list-style-type: none"> CAN/CGSB-4.2 Method 14-2005
3	Yarns	Warp – no less than 35 per cm Weft – no less than 34 per cm	<ul style="list-style-type: none"> CAN/CGSB-4.2 Method 6-2013
4	Weave	Plain	
5	Mass	112 g/m ² \pm 8g/m ²	<ul style="list-style-type: none"> CAN/CGSB-4.2 Method 5.1-M90 (2004)

TABLE III
Micro Fleece

REQUIREMENT			TEST METHOD
1	Colour	Black	
2	Knit	Fleece	
3	Fiber Content	100% Polyester \pm 3%	<ul style="list-style-type: none"> CAN/CGSB 4.2 Method 14-2005
4	Mass	139g/m ² \pm 10 g/m ² (129 - 149) 4.1 oz/yd ² \pm 3 oz/yd ² (3.8 – 4.4)	<ul style="list-style-type: none"> CAN/CGSB 4.2 Method No. 5.1-M90 (2004)
5	Colourfastness - To Crocking	Dry: Grade 4 or better Wet: Grade 3 or better	<ul style="list-style-type: none"> CAN/CGSB-4.2 Method 22-2004 AATCC 8-2013
6	Colourfastness to Washing	Colour change Grey Scale 4 or better Staining cotton - Grey Scale 4 or better Staining polyester – Grey Scale 3 or better	<ul style="list-style-type: none"> CAN/CGSB-4.2 Method 19.1-2004 (R2013) Test 2A AATCC 61-2013

TABLE IV
Mesh, Pocketing

REQUIREMENT			TEST METHODS
1	Colour	Black or Navy To match colour swatch provided by Uniform and Equipment Program	
2	Fiber Content	100% Polyester	<ul style="list-style-type: none"> CAN/CGSB-4.2 Method 14-2005
3	Knit Construction	Warp Knit	
4	Yarns per cm	Wales: 13 ± 3 Courses: 11 ± 3	<ul style="list-style-type: none"> CAN/CGSB-4.2 Method 7- M88 (2001) ISO 7211-2
5	Mass	$115 \text{ g/m}^2 \pm 6 \text{ g/m}^2$ ($109 \text{ g/m}^2 - 121 \text{ g/m}^2$)	<ul style="list-style-type: none"> CAN/CGSB-4.2 Method 5.1-M90 (2013) ASTM D3776/D3776M-09a (2013)
6	Dimensional Change to Domestic Washing <i>After 5 cycles</i>	Warp 4% (max.) Weft 3% (max.)	<ul style="list-style-type: none"> CAN/CGSB-4.2 Method 58-2004,3,E
7	Colour fastness to Crocking Wet & Dry	Dry - Grey Scale 4 or better Wet - Grey Scale 4 or better	<ul style="list-style-type: none"> CAN/CGSB-4.2 Method 22-2004
8	Colour fastness to Washing	Colour change Grey Scale 4 or better Staining cotton - Grey Scale 4 or better Staining polyester – Grey Scale 4 or better	<ul style="list-style-type: none"> CAN/CGSB-4.2 Method 19.1-2004 Test #2 AATCC 61-2013
9	Mullen Burst (psi)	100 (minimum)	<ul style="list-style-type: none"> ASTM D3786/D3786M-13
10	Abrasion Resistance - Martindale Method Part 2 (Determination of Specimen Breakdown)	No breakdown after 25,000 at 9 kPa	<ul style="list-style-type: none"> ASTM D4966-12
11	Pilling	No less than 4 after 120 minutes	<ul style="list-style-type: none"> CAN/CGSB-4.2 Method 51.2-M87

Appendix A

Sealed Pattern Identifier

Pattern #: G.S. 1045-354
 Title: Jacket, Patrol, Soft Shell

Paper Patterns - Paper patterns are available from the RCMP, Uniform and Equipment Program, Ottawa Ontario, under Pattern # G.S. 1045-354. Firms requested to produce Pre-contract Award Samples will be provided with the base pattern only. The full set of patterns either in individual sizes or as a graded nest will be provided to the successful bidder after the contract is awarded. The patterns are referenced in English.

The paper patterns include seam allowances, drill holes and/or placement templates. Contractors may make changes required to suit their production process, however, the design and grade shall not be affected or changed. **Punch holes are not an acceptable method of placement for this garment with the exception of the placement of the shoulder badge and the holes must be completely covered by the shoulder badge. Material shrinkage/stretch may vary and it is the responsibility of the manufacturer to make allowances in order to meet the scale of measurements included in this specification.**

All patterns are the property of the RCMP and must be returned upon completion of the contract.

Pattern Pieces - This design has 22 pattern components.

<u>Legend:</u>	
Shell Material III	= Para. 4.1.3
Shell Material IV	= Para. 4.1.4
Mesh Pocketing	= Para. 4.1.5
Interfacing	= Para. 4.1.6
Cut 1 Single	= Cut 1
Cut 1 Paired	= Cut 2
Cut 2 Paired	= Cut 4
(RSU)	= Right Side Up

Pattern Components	Nomenclature	Quantity to be cut	Material
1 of 22	Back – Lower	1 Single	Shell Material III (RSU)
2 of 22	Yoke - Front/Back	1 Single	Shell Material III (RSU)
3 of 22	Front – Lower	1 Paired	Shell Material III
4 of 22	Side Panel	1 Paired	Shell Material III
5 of 22	Sleeve - Top	1 Paired	Shell Material III
6 of 22	Sleeve – Under	1 Paired	Shell Material III
7 of 22	Collar	1 Paired	Shell Material III
8 of 22	Shoulder Strap A	1 Paired	Shell Material III
9 of 22	Shoulder Strap B	1 Paired	Shell Material IV
10 of 22	Hem Facing – Front	1 Paired	Shell Material IV
11 of 22	Hem Facing – Back	1 Single	Shell Material IV (RSU)
12 of 22	Facing – Center Front Flap	1 Single	Shell Material IV (RSU)
13 of 22	Facing – Center Front Flap	1 Single	Interfacing
14 of 22	Pocket Facing A - Front	2 Paired	Shell Material IV
15 of 22	Sleeve Adjustment Tab	1 Paired	Shell Material III
16 of 22	Sleeve Adjustment Tab	1 Paired	Shell Material IV
17 of 22	Pocket Bag – Front	1 Paired	Mesh
18 of 22	Pocket Bag – Front Drop Down	1 Single	Mesh
19 of 22	Pocket Bag – Center Front	1 Single	Mesh
20 of 22	Police Patch Flap – Back	1 Single	Shell Material IV
21 of 22	Police Patch Flap – Front	1 Single	Shell Material IV
22 of 22	Yoke - Inside Back	1 Single	Shell Material IV

APPENDIX B

CARE INSTRUCTIONS

Jacket, Patrol, Soft Shell

This garment is designed to be both water resistant and windproof. The best way to maintain its performance is to **keep them clean by washing it regularly**. When the water no longer beads up and rolls off, use a water based, solvent free, nonflammable DWR product to restore the water repellency. The following care instructions should ensure a normal life cycle for your garments. These garments should be washed after 10-12 days of continuous use or every 20-30 days with occasional use.

The water repellency and breathability of your garment are affected by the following:

1. Dirt buildup and other contaminants including oils, sunscreen and sweat reduce the effectiveness of the water repellency.
2. Fabric softeners have a detrimental effect on the colour and the water repellency of the fabric. They will make the colour fade more quickly and affect the overall performance of the fabric. These include liquid fabric softeners, detergents that contain softeners and dryer sheets. Therefore it is very important that these softeners not be used when laundering your garment.

Machine Wash:

- DO NOT COMMERCIAL LAUNDRY
- DO NOT DRY CLEAN

Close all zippers, fasteners and velcro before washing.

Wash in warm water separately, with a small amount of detergent or specialty wash products for soft shell garments. **DO NOT USE FABRIC SOFTENERS OR POWDERED DETERGENTS OR ANY LIQUID DETERGENTS THAT CONTAIN FABRIC SOFTENERS. DO NOT USE BLEACH.**

At the end of the final rinse cycle, re-adjust the garment in the washer, and put it through an additional rinse cycle. This will assure complete rinsing of detergent that may have been trapped during washing, therefore preserving water repellency.

Drying:

Close all zippers, fasteners and velcro before drying.

If re-application of DWR is necessary, hang wet garment on hanger and follow application instructions of DWR product. **(i.e. Grangers® XT Waterproof spray, Fibertec Blue Guard Spray-on, Revivex® Spray-On or Nikwax Tx-Direct™)**

The garment **must** be tumble dried separately on a warm setting for 50 minutes to reactivate the durable water repellency (DWR.). **DO NOT USE DRYER SHEETS.**

If necessary, touch up with steam iron at low temperature.

INSTRUCTIONS D'ENTRETIEN

Blouson de patrouille à coquille souple

Ce vêtement est conçu pour être imperméable et résistant au vent. La meilleure façon de préserver leurs propriétés est de le **garder propre en le lavant régulièrement**. Lorsque l'eau ne perle plus, utiliser un produit déperlant durable à base d'eau, sans solvant et ininflammable pour restaurer la déperlance. Les instructions d'entretien ci-dessous permettront d'assurer le rendement optimal des vêtements. Ces vêtements devraient être lavés après 10 à 12 jours d'utilisation continue ou à tous les 20 à 30 jours d'utilisation occasionnelle.

Les conditions suivantes peuvent influencer sur l'imperméabilité et la respirabilité des vêtements :

1. L'accumulation de saletés et d'autres contaminants comme de l'huile, de la crème solaire ou de la sueur peut réduire l'imperméabilité.
2. Les agents assouplissants influent sur la couleur, la déperlance et l'imperméabilité. Ils décolorent les tissus plus rapidement et nuisent à leur rendement général. Il est très important de n'utiliser **aucun** type d'assouplissant (agent assouplissant liquide, détergent avec assouplissant et assouplissant en feuilles).

Lavage à la machine :

- NE PAS LAVER DANS UNE BUANDERIE COMMERCIALE
- NE PAS NETTOYER À SEC

Fermer toutes les fermetures à glissière, les attaches et les attaches à ruban autoagrippant avant de laver.

Laver séparément à l'eau tiède, avec une petite quantité de détergent ou de produit spécifiquement conçu pour l'entretien des vêtements à coquille souples. NE PAS UTILISER D'AGENT ASSOUPLISSANT NI DE DÉTERGENT EN POUDRE OU LIQUIDE AVEC ASSOUPLISSANT. NE PAS UTILISER D'AGENT DE BLANCHIMENT.

À la fin du dernier cycle de rinçage, replacer le vêtement dans la machine et entreprendre un autre cycle de rinçage, afin d'éliminer complètement le détergent qui peut être resté durant le lavage et de préserver la déperlance.

Séchage:

Fermer toutes les fermetures à glissière, les attaches et les attaches à ruban autoagrippant avant de sécher.

Si un nouveau traitement déperlant est requis, suspendre le vêtement mouillé sur un cintre et suivre les instructions du fabricant du produit (**p. ex. imperméabilisant à vaporiser XT de Granger's^{MD}, Blue Guard de Fibertec, Revivex^{MD} ou Tx-Direct^{MC} de Nikwax**).

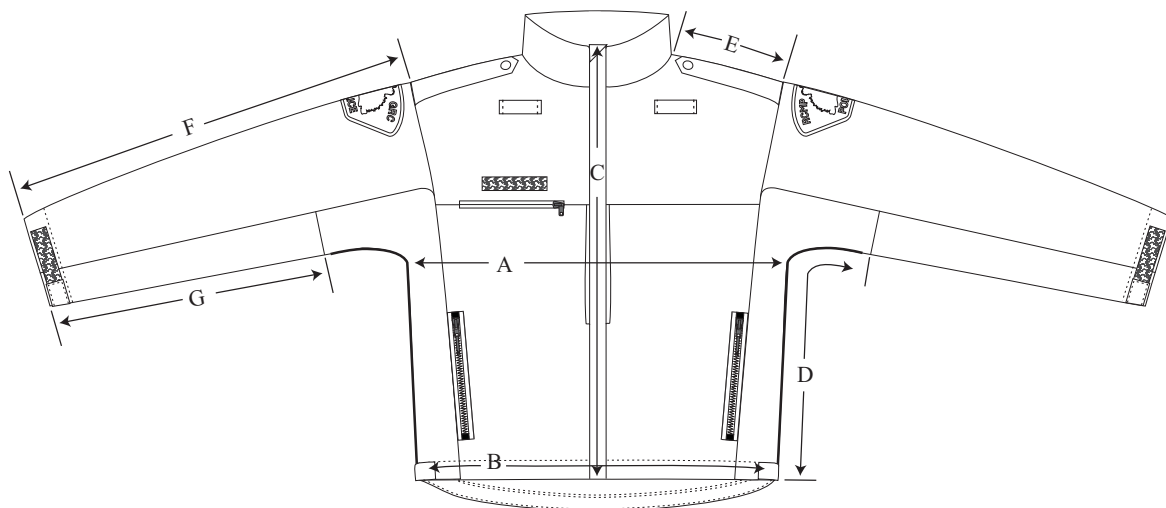
Le vêtement **doit** être séché séparément par culbutage à basse température pendant 50 minutes, afin de réactiver les propriétés déperlantes. NE PAS UTILISER D'ASSOUPLISSANT EN FEUILLES.

Au besoin, repasser légèrement à basse température.

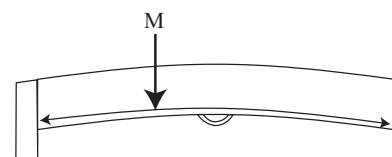
Jacket, Patrol Softshell
Measurement Location Chart

G.S. 1045-354

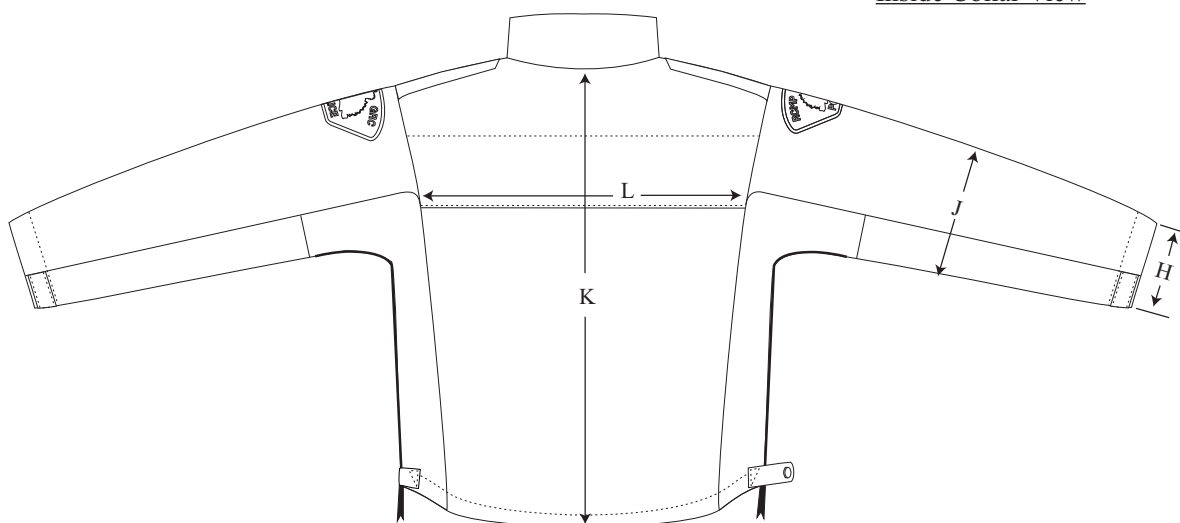
Dwg. 1



Front View



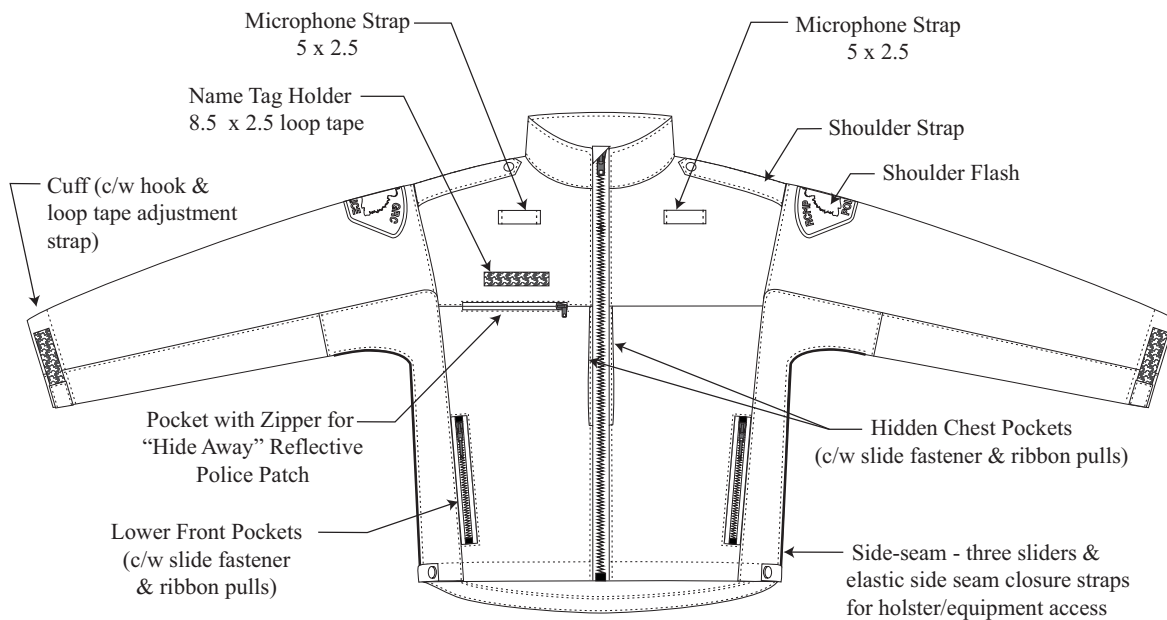
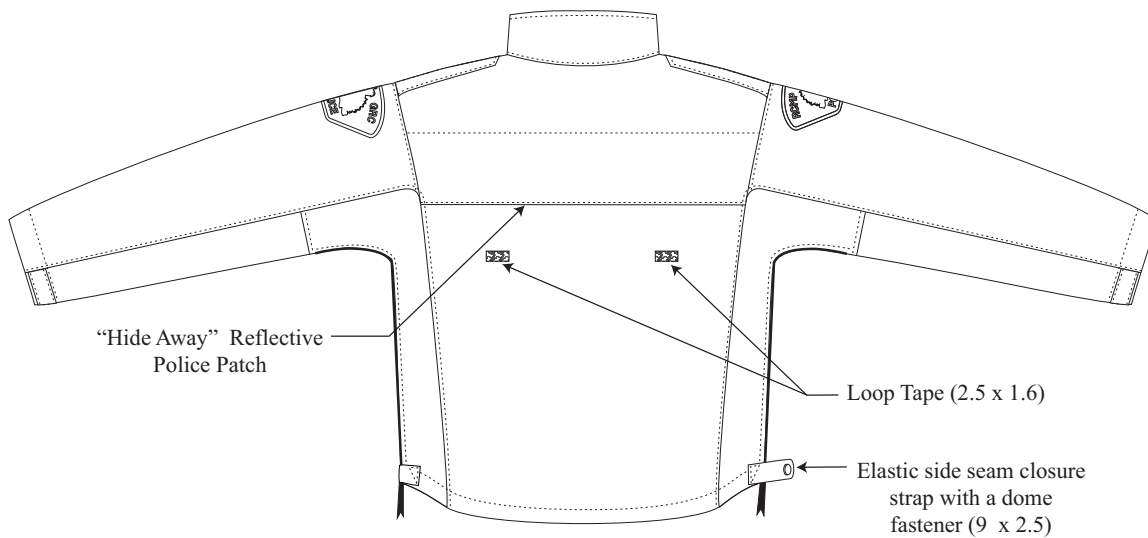
Inside Collar View



Rear View

NOT TO SCALE

Dwg. 2

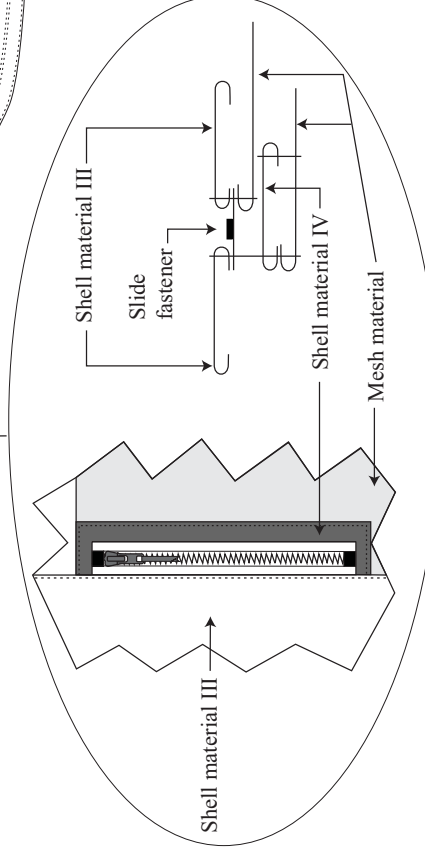
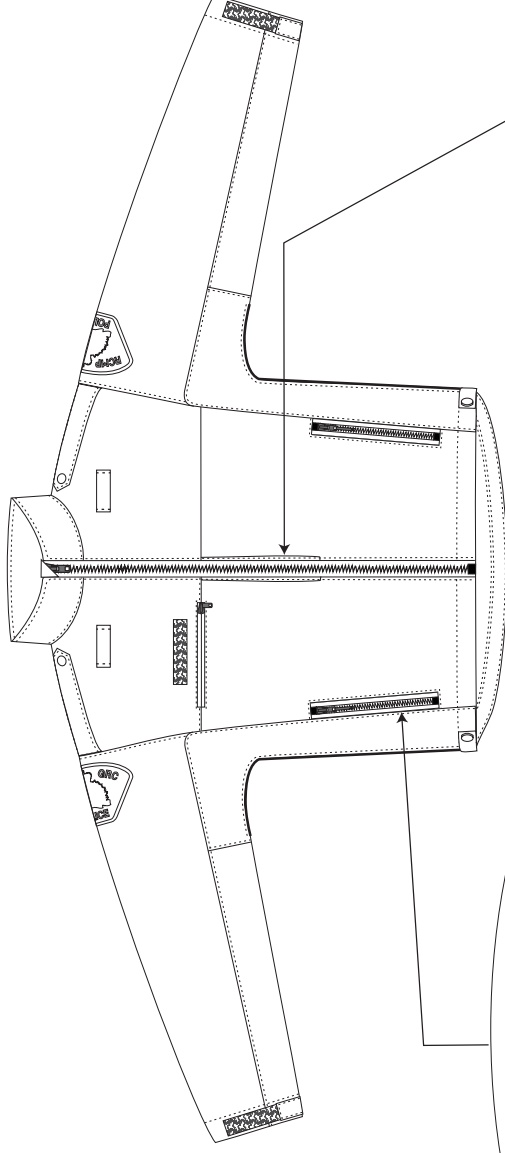
Front ViewRear View

NOT TO SCALE

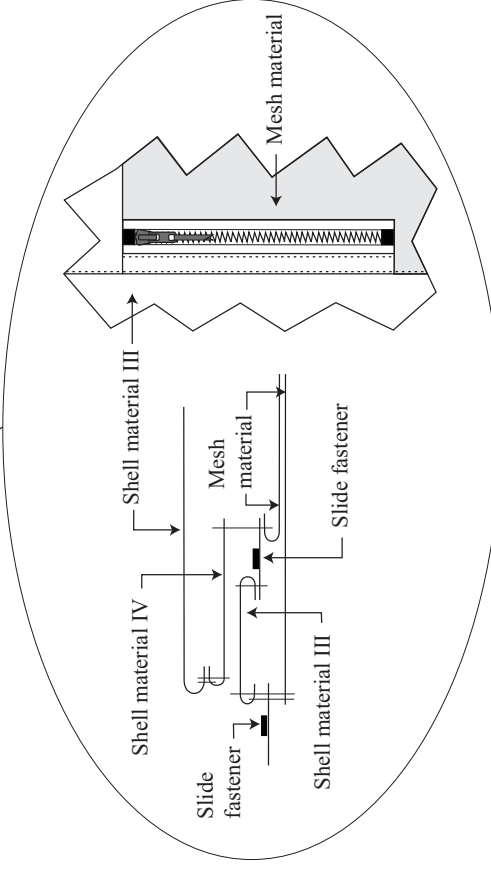
All measurements are shown in centimeters.

± 0.5 cm tolerance acceptable unless otherwise indicated.

Dwg. 3



Lower Pocket Detail



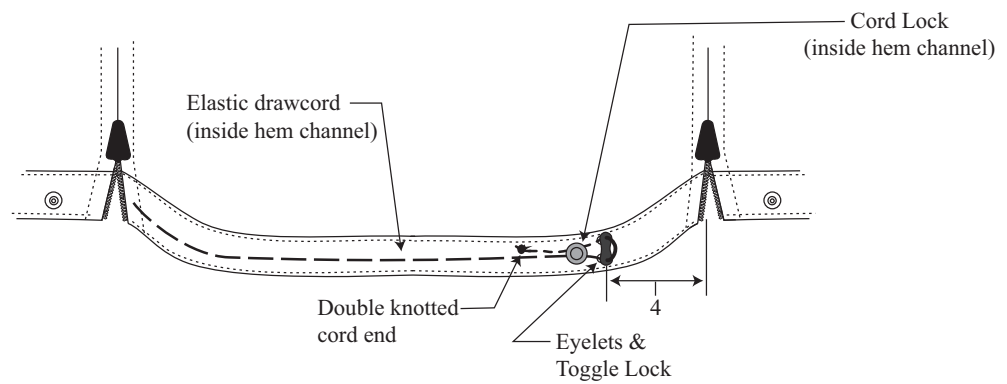
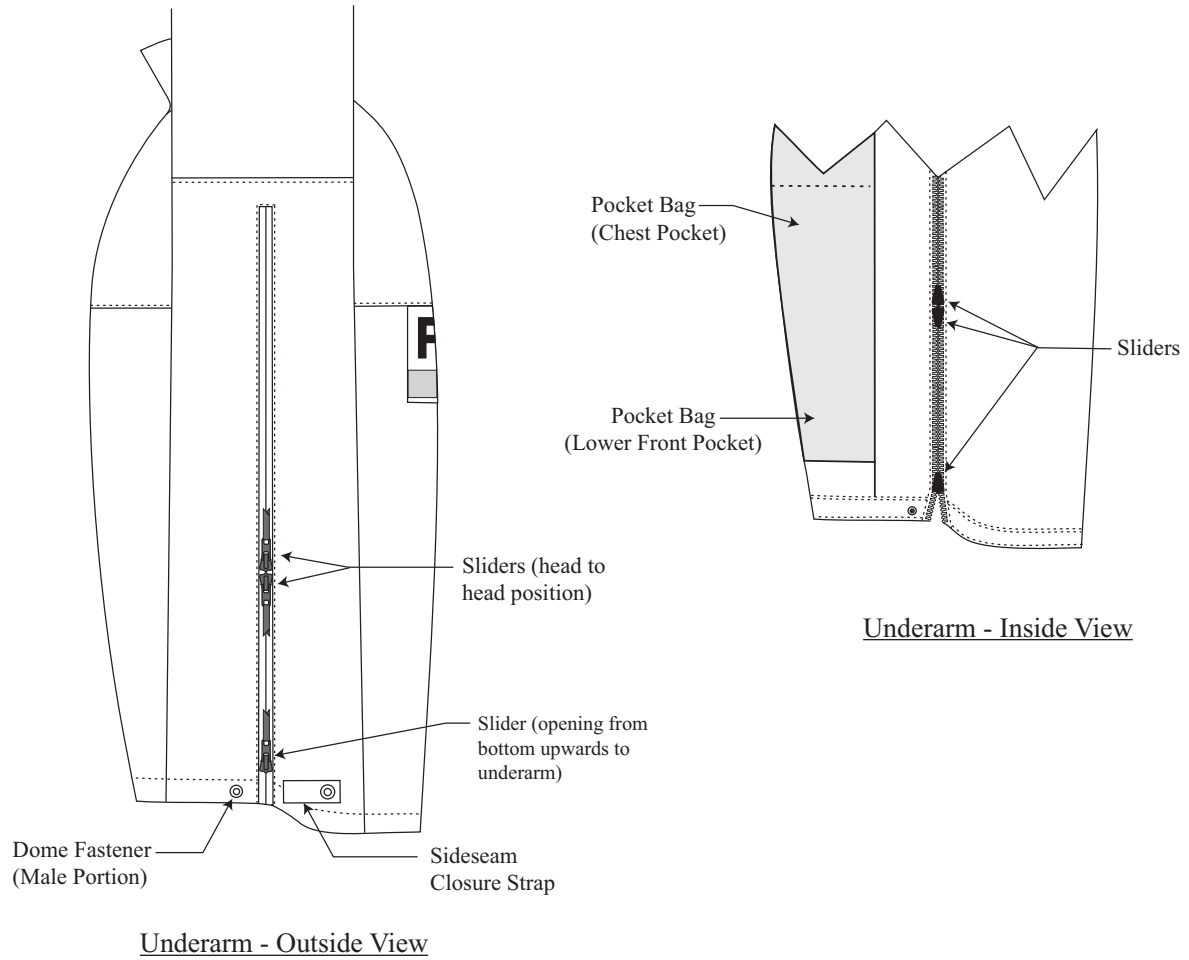
Chest Pocket Detail

NOT TO SCALE

All measurements are shown in centimeters.

± 0.5 cm tolerance acceptable unless otherwise indicated.

Dwg. 4



NOT TO SCALE

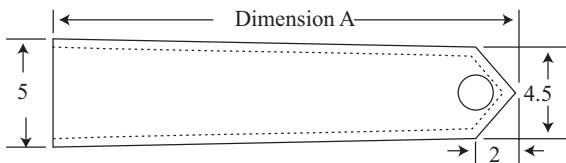
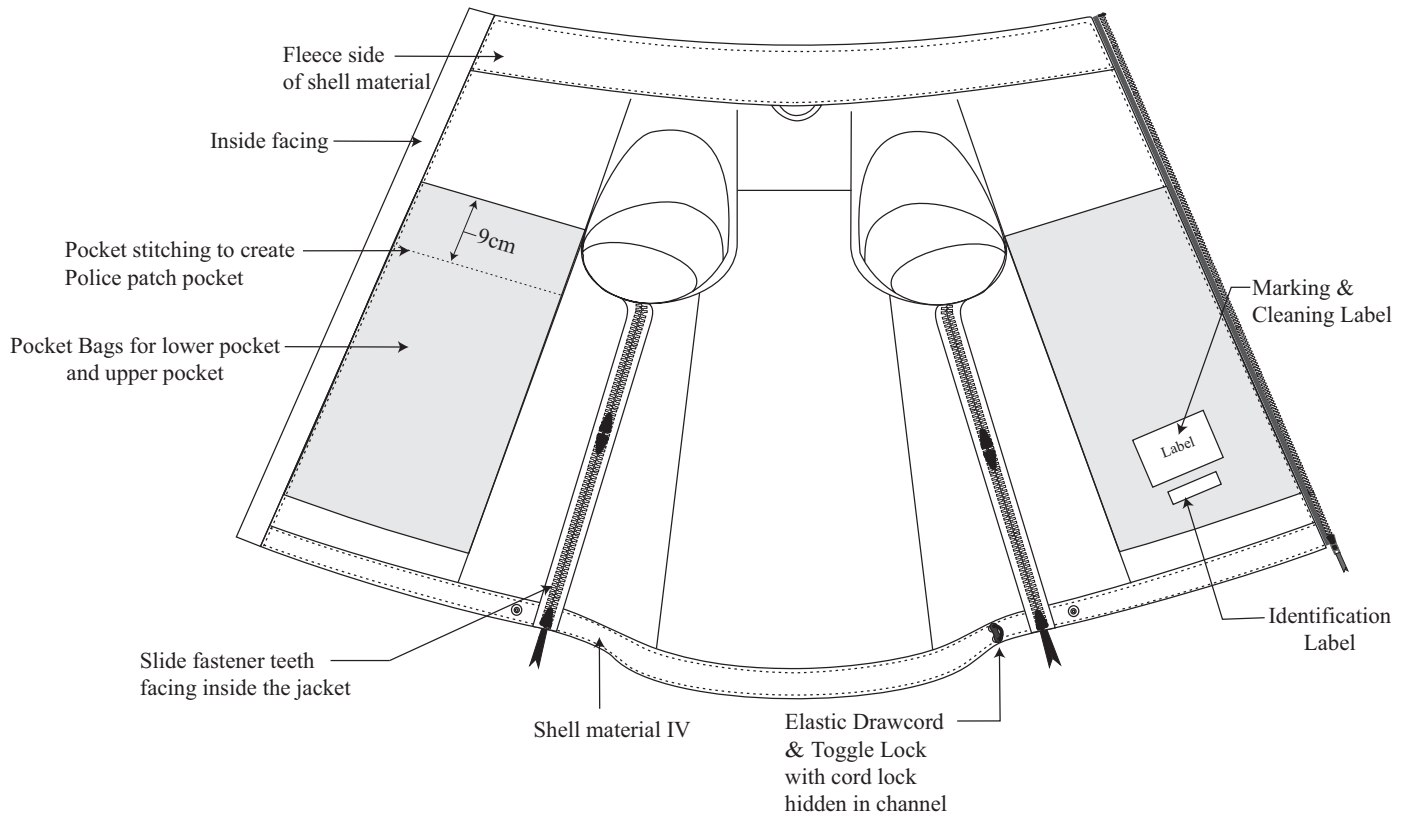
All measurements are shown in centimeters.

 ± 0.5 cm tolerance acceptable unless otherwise indicated.

Jacket, Patrol Softshell

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Dwg. 5



Shoulder Strap Detail

Jacket Size (All Heights)	Dimension A
X-Small	13.5
Small	14.5
Medium	15.5
Large	16.5
X-Large	17.5
2X-Large	18.5
3X-Large	19.5
4X-Large	20.5
5X-Large	21.5

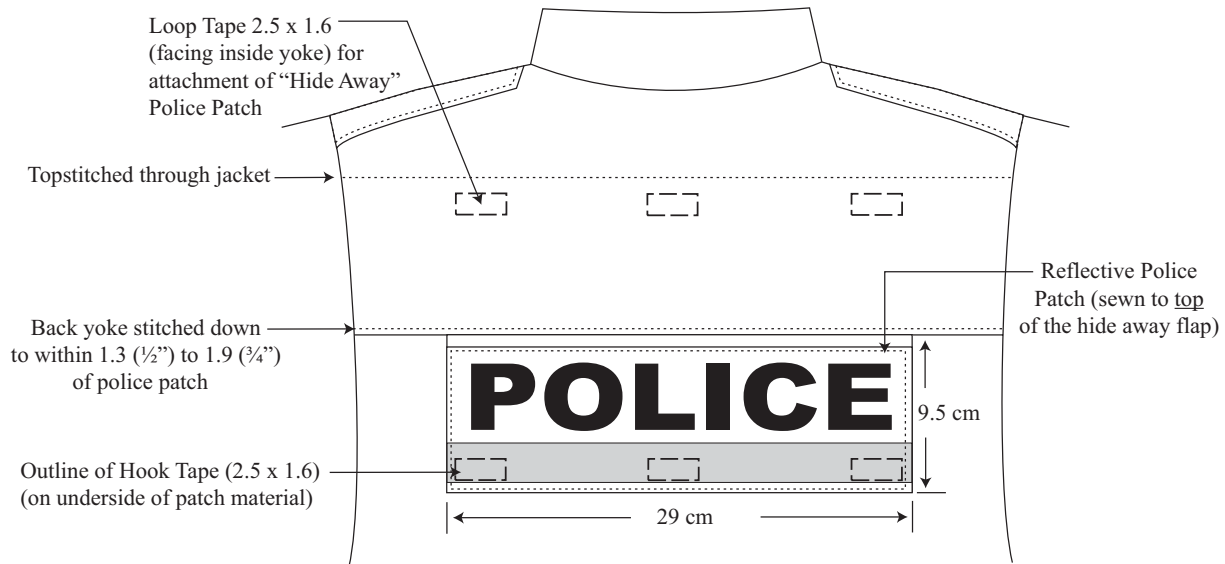
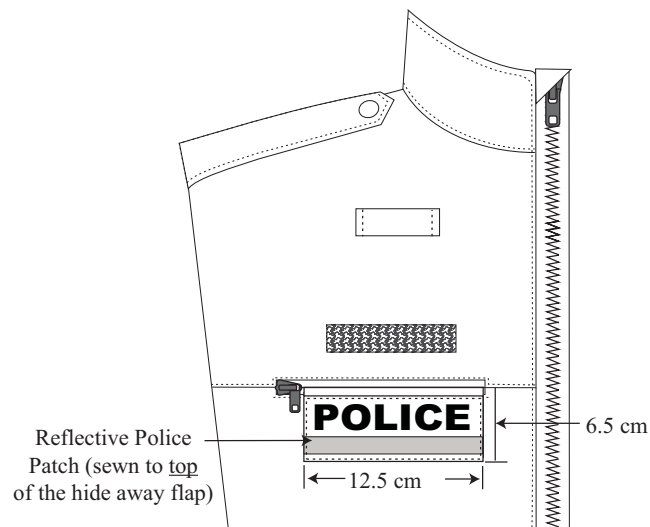
Shoulder Strap Length
(Finished)

NOT TO SCALE

All measurements are shown in centimeters.

± 0.5 cm tolerance acceptable unless otherwise indicated.

Dwg. 6

Large Back Police PatchChest Pocket Detail

NOT TO SCALE

All measurements are shown in centimeters.

± 0.5 cm tolerance acceptable unless otherwise indicated.