

Royal Canadian Mounted Police Gendarmerie royale du Canada Doc. no: G.S. 1045-306 Date: 2015-04-27

# Specification

# Shirt, Special Duty, Blue, Long Sleeve

This document has 20 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.



Issued on the authority of the Commissioner, Royal Canadian Mounted Police.

## Modifications

Date	Para. No's	Modifications
2007-01-30	Para. 4.3.3.1 Para. 4.3.3.2	Facing width changed to 5cm Facing width changed to 5cm
2007-11-14	Para. 4.3.16	Marking & Cleaning Instructions Label updated.
	Dwg. 3	Hook & loop tape dimensions increased on shoulder straps.
	Scale of Measurements	Total revision of Scale of Measurements.
2009-07-24	Title Para. 4.1.4 Scale of Measurements	Title Change: "Long Sleeve" added Modification to Buttonhole & bar tack thread. Revision to Scale of Measurements.
2011-07-05	Dwg. 3	Added a length measurement to the sleeve strap
2012-10-05	Para. 4.3.16 Para. 4.3.17 Appendix B Dwg. 3	Specify date in numeric form. Paragraph deleted as redundant. Tolerances amended for chest, hem circ., side length and depth of yoke. Modified length measurement to the sleeve strap and added tolerance.
2013-06-05	Para. 4.1.1 Para. 4.1.3 & 4.1.4 Para. 4.1.5	Added Certificate of compliance or test report. Updated the thread requirement as per industry recommendation and added Certificate of compliance required. Validation Certificate changed to Certificate of
	Table I Appendix C	Compliance. Test method for Laundering updated to reflect home laundering. Certificate of Compliance definition added.
2015-04-27	Para. 1.1 Para. 1.4 Para. 3.3 Para. 4.1.1 Para. 4.1.5 Para. 4.3.16 Para. 5 Table I Appendix C	Added list of items with MMR numbers to paragraph. Added paragraph relating to translation. Paragraph deleted. Modified paragraph. Updated hook and loop requirements. Modified marking and cleaning instructions. Delivery and Marking paragraphs deleted and subsequent paragraph renumbered. Table I modified for fabric requirements. Removed Appendix C.

# **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**

## SHIRT, SPECIAL DUTY, BLUE, LONG SLEEVE

## 1. **Definition**

- 1.1 This specification shall govern the manufacture and inspection of Shirt, Special Duty, Blue, Long Sleeve. The specific item covered under this specification with stock number is as follows;
  - i. 6045 Shirt, Special Duty, Blue, long Sleeve/ Chemise de fonction spéciale bleue à manches longues
- 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 Shirt, Special Duty, Blue.
- 1.4 This specification has been translated into French from this original English language document.

#### 2. <u>Applicable Specifications</u>

- 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.
- 2.3 ISO 4915:1991, Textiles Stitch Types.
- 2.4 ISO 4916:1991, Textiles Seam Types.
- 2.5 CAN/CGSB 4.131-93, Thread, Polyester, Polyester-Covered.
- 2.6 CAN/CGSB 86.1, Care Labelling of Textiles

## 3. General Requirements

- 3.1 The article or material covered by this specification shall be free from imperfections or blemishes such as 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 Shirt, Special Duty, Blue, Long Sleeve shall be navy blue in colour constructed from a poly/cotton material. The overall design shall incorporate a front hidden button closure, front bellow pockets with hook and loop secured flaps, and military strap buttons for front and cuff closure. It shall incorporate an inside sleeve strap designed to keep the long sleeve rolled up in a short sleeve position. It shall be constructed in accordance with the patterns, scale of measurements and drawings which form part of this specification.

## 4. **Detail Requirements**

## 4.1 Materials

- 4.1.1 <u>Shell</u> The shell material shall be 65% Polyester and 35% Cotton with a stain resistant finish meeting the requirements in Table I. It shall be navy in colour to match the colour swatch provided by RCMP Uniform and Equipment program.
- 4.1.2 <u>**Buttons**</u> The buttons shall be 19 mm diameter, military strap type of nylon composition, black in colour.
- 4.1.3 <u>**Thread**</u> The thread shall be polyester wrap, polyester core, Tex 40, Class B of matching colour, meeting CAN/CGSB 4.131-93.
- 4.1.4 <u>**Thread for Buttonholes & Bar-Tacks</u>** The thread shall be polyester wrap, polyester core, Tex 40, Class B meeting CAN/CGSB 4.131-93. It shall be of matching shade to the shell material.</u>
- 4.1.5 <u>Hook and Loop Tape</u> 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 5169, standard test method for shear strength [dynamic method] of hook

and loop touch fasteners and ASTM 5170, standard test method for peel strength ["T" method] of hook and loop touch fasteners."

4.2 <u>Size and Dimensions</u> - Shirt, Special Duty, Blue, Long Sleeve to this specification shall be supplied in the sizes specified by the R.C.M.P. 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 requirements as outlined in "Appendix A" forming part of this specification.

## 4.3 Construction

- 4.3.1 <u>Cutting</u> All component parts of the shirt shall be cut from the same piece of material and shall be cut following the grain line on the pattern piece to ensure uniformity of shade.
- 4.3.2 <u>Stitching</u> Using the specified thread, there shall be no less than 3 and no more than 4 stitches per cm. All stitching shall be lockstitch Type 301 or lockchain stitch Type 401. The beginning and ending of all stitching shall be securely backstitched and tacked unless secured by other stitching. Where seaming, turning and stitching are required the edges shall be properly worked out before stitching. Armhole seams shall be seamed, serged, and top stitched at 6mm. Bar tacks shall be 13 mm in length and made with no less than 18 cover stitches per tack. Care shall be taken to minimize unsightly gathering and puckering.

## 4.3.3 **Fronts**

4.3.3.1 Left Front - The left front shall be constructed in a way to form a hidden button closure. It shall have a front buttonhole flap made from material specified in Para. 4.1.1. Vertical buttonholes shall be positioned on the flap as per pattern. All short sizes shall have 5 buttonholes, all regular sizes shall have 6 buttonholes and all tall sizes shall have 7 buttonholes as outlined in the pattern. All buttonholes shall be sized to properly fit the 19mm button as specified in paragraph 4.1.2. The left front shall be folded back to create a 5cm wide facing and shall be top stitched with a 6mm gauge. The buttonhole flap shall be stitched to the inside facing to create a separation between each hole as per viewing sample. The left front shall conform in all respects to the patterns and drawings.

- 4.3.3.2 **<u>Right Front</u>** The right front shall be plain with a folded facing of 5cm wide when finished. The facing shall be folded to the inside and pressed flat. The raw edge shall be turned inward and top stitched using a 2mm gauge as per drawing and viewing sample. Military strap buttons, as specified in para. 4.1.2, shall be positioned to correspond with the buttonholes. There shall be a piece of loop tape 8.5cm x 2.5cm for a name tag above the right front pocket flap as per pattern template.
- 4.3.4 <u>Chest Pockets</u> There shall be two chest pockets constructed from the material specified in Para. 4.1.1. The pockets shall be a one-piece bellow, patch type, sized and positioned as per patterns. The pockets shall be applied so that the bellow faces the back of the shirt as per drawings and viewing sample. Both pockets shall have a two slot pen pocket, 6cm wide and 15cm deep, made from a single ply of shell material with the hem across the top. The pen pocket shall be stitched at a 2mm gauge to the body of the shirt. Both pockets shall have three pieces of hook tape applied as per drawing #4. Three corners of the pocket shall be bar tacked as shown in drawing #4.
- 4.3.5 **Pocket Flaps** The flaps shall be constructed of two pieces of shell material as specified in Para. 4.1.1. The side, corner and bottom edges shall be sewn and top stitched with a 6mm gauge. Each flap shall be stitched to the shirt front in a continuous operation and shall be bar tacked at each end. There shall be three pieces of loop tape sewn to the underside of the flap, sized and positioned as per pattern and drawings. The chest pocket flaps shall be constructed and positioned as per the patterns, drawings and viewing sample.
- 4.3.6 <u>Strap (Military Buttons)</u> All straps shall be made from shell material, as per Para 4.1.1, inserted through a military style button as per para. 4.1.2. and bar tacked in place. They shall be positioned on the right front as per pattern, one on each upper sleeve and two on each cuff as shown in the drawings. Where one button is required, the strap shall be 4cm finished in length and where two buttons are required the strap shall be 5cm finished in length. All buttons shall conform to drawings and viewing sample.
- 4.3.7 **Back** The completed back panel shall have a double layer yoke. The yoke shall be applied to the top of the back panel and shall be top stitched using a 2mm gauge. The back panel shall have two pleats positioned as per the pattern sewn in at the yoke seam. The back panel shall conform in all respects to the pattern and drawings.

- 4.3.8 **Shoulder Straps** The straps shall be made of shell material as specified in Para. 4.1.1, sized and dimensioned as per patterns and drawing #3. They shall be seamed, turned and stitched or creased and stitched using a 6mm gauge and placed as per pattern notch. The completed shoulder straps shall be sewn into the armhole seam, parallel with the shoulder seam. The straps shall be secured at the pointed end with hook and loop tape as specified in Para. 4.1.5. The hook tape shall be sewn to the underside of the strap and the loop tape on the shoulder seam. They shall be sized and positioned in accordance with the patterns and drawings. Care shall be taken to ensure that the straps shall lie flat when fastened.
- 4.3.9 <u>Sleeves</u> Both one-piece sleeves shall be made from material as specified in Para. 4.1.1 with a placket opening and cuff as per the pattern and drawing #3. The placket shall be 2.5cm wide with a finished outside length of 20.5cm. There shall be a sleeve strap with a buttonhole sewn to the inside of the sleeve as per pattern designed to hold the rolled up sleeve in place. Dimensions shall be as per pattern and placement shall be 1cm below the sleeve military button as per drawing #3 and viewing sample. When the sleeve is in a rolled up position it shall fasten to the military strap button sewn to the outside of the sleeve as per patterns and drawing #3. The sleeve shall be positioned and constructed as per patterns, drawings and viewing sample.
- 4.3.10 **Joining Sleeves, Underarm and Side Seams** The join shall be by means of a seamed and serged safety stitch. The armhole shall be top stitched using a 6mm gauge to the body of the shirt as per drawing #3.
- 4.3.11 <u>Sleeve Cuff</u> The cuffs shall be made from two plies of shell material dimensioned as per pattern and top stitched using a 6mm gauge. The cuff shall have one buttonhole and two military strap buttons for horizontal adjustment. The buttonhole and strap buttons shall be centred on the cuff as per pattern. The placket shall lay flat when the first button is closed. The cuff shall be positioned and constructed as per pattern, drawings and viewing sample.
- 4.3.12 **Bottom Hem** The bottom edge of the shirt front and back shall be hemmed by turning in the raw edge, folding this edge under and stitching.
- 4.3.13 <u>Collar</u> The collar shall be constructed from two plies of shell material as specified in Para. 4.1.1. The collar shall be seamed, the corners clipped, turned and top stitched using a 6mm gauge. The collar shall be constructed, dimensioned and positioned as per the patterns.

- 4.3.14 **Shoulder Patch** The shoulder patch constructed of loop tape as specified in Para. 4.1.5. The loop tape shall be sized as per pattern and centred on the sleeve head below the shoulder seam as per pattern and attached securely with one row of stitching all around.
- 4.3.15 <u>Identification Label</u> Each shirt shall have a durable blank label 7.5cm x 2cm applied separately below the marking and cleaning label used for the inscription of the wearers name.
- 4.3.16 <u>Marking & Cleaning Instructions Label</u> Each shirt shall have a cloth label affixed to the back of the neckband or side seam. The label information shall be as outlined below in a font no less than size 8. The text shall be <u>permanent ink</u> in 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 and French as written in para. 1.1, as applicable.
  - 2. RCMP stock number reference contract documents. (Ex. 6045 000)
  - 3. Size of the article, combining the size designation referenced in the English and French contract documents. (Ex. Small/Petit, X-Large/T Grand)
  - 4. Date of manufacturer, in numeric format year/month (Ex. 2001/11)
  - 5. Your manufacturer identification (Company name or number).
  - 6. Print information as written below.
  - 7. Print information as written below.
  - 8. Print information as written below.
  - 9. Print information as written below.

1	
2	RCMP-GRC #
3	Size
4	
5	
6	Machine wash cool / Lavage à l'eau froide
	Do Not use fabric softener or chlorine bleach / Ne pas utiliser d'agent adoucissant ou d'agent de blanchiment
7	Tumble dry –low ( <b>Do not</b> use dryer sheets) / Séchage par culbutage – à basse temperature ( <b>Ne pas</b> utiliser d'assouplissant en feuilles)
8	Steam Iron - Medium temperature / Repassage à vapeur - à température moyenne
9	Do Not dry clean / Ne pas nettoyer à sec
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**Note:** The manufacturers identification shall not appear anywhere on the garment except on the garment label as indicated.

#### 5. **Quality Assurance Provisions**

- 5.1 **<u>Responsibility for Inspection</u>** 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 may use any commercial testing establishment acceptable to the RCMP, Uniform and Equipment Program.
- 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.

## TABLE I

		REQUIREMENT	ACCEPTABLE TESTED METHODS
1	Colour	To match colour swatch	
		provided by Uniform and	
		Equipment Program	
2	Weave	Plain	
3	Mass	$165 \pm 8 \text{ g/m}^2 (157 - 173)$	CAN/CGSB-4.2 Method 5.1- M90
4	Width	160 cm (min.)	CAN/CGSB-4.2 Method 4.1- M87
5	Yarns per 10 cm	Warp 400 (min.) Weft 210 (min.)	CAN/CGSB-4.2 Method 6-M89
6	Breaking Strength	Warp 580 Newtons (min.)	CAN/CGSB-4.2 Method 9.2-
		Weft 230 Newtons (min.)	M90
7	Dimensional Change to	Warp 2% (max.)	CAN/CGSB-4.2 Method 58-
	Domestic Laundering	Weft 2% (max.)	2004, Wash Procedure II; Dry
			Procedure E; Restoration
			Procedure 3
8	Colourfastness to	Grey Scale 4 or better	CAN/CGSB-4.2 Method 19.1-
	Washing		M90
9	Colourfastness to Light	At least AATCC L4	CAN/CGSB-4.2 Method 18.3- 97
10	Colourfastness to Perspiration	Grey scale 4 or better	CAN/CGSB-4.2 Method 23- M90
11	Colourfastness to Rubbing (Crocking)	Dry - grey scale 3-4 or better Wet - grey scale 3 or better	CAN/CGSB-4.2 Method 22- 2004
12	Water Repellency	Initial - 100	AATCC 35
12		After 3 washes - 90	
		After 20 washes - 70	
13	Pilling	after 90 mins - no less than 4	CAN/CGSB-4.2 Method 51.2-
		after 120 mins - no less than 4	M87
14	Abrasion	after 5000 cycles - no less than	ASTM D4966-89
		3-4	
15	Crease Recovery	warp - 70%	CAN/CGSB-4.2 Method 45-
		weft - 70%	M88
16	Non-Fibrous Material	3.1% (max.)	CAN/CGSB-4.2 Method 15
17	Fibre Blend	Polyester $65\% \pm 3\%$	
		Cotton $35\% \pm 3\%$	

A certificate of compliance is required when Doubletex "Bounty US" 65/35 Poly/cotton is submitted for the requirement. Other manufacturers' fabrics shall be acceptable provided they meet or exceed the requirements and provide test data for Table I excluding requirements 1, 2 and 4.

## **APPENDIX A**

#### Sealed Pattern Identifier

Pattern #:G.S. 1045-306Title:Shirt, Special Duty, Blue, Long Sleeve

Paper Patterns - Paper patterns are available from the RCMP, Quality Control, Ottawa Ontario, under Pattern # G.S. 1045-306. 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 paper patterns include seam allowances, drill holes and/or placement templates. Drill holes mark the edge of the placement. Contractors may make changes required to suit their production process, however, the design and grade shall not be affected or changed.

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

Pattern Pieces - This design has 16 pattern components.

Legend:		
Cut 1 Single	= Cut 1	
Cut 1 Paired	= Cut 2	
Cut 2 Paired	= Cut 4	

Pattern Components	Nomenclature	Quantity to be cut	Material
<b>1</b> of 16	Back	1 Single	Shell Material (RSU)
<b>2</b> of 16	Front - Right	1 Single	Shell Material (RSU)
<b>3</b> of 16	Front - Left	1 Single	Shell Material (RSU)
<b>4A</b> of 16	Buttonhole Flap - Front Left	1 Single	Shell Material (RSU)
<b>4B</b> of 16	Buttonhole Flap - Front Left	1 Single	Shell Material (RSU)
<b>4C</b> of 16	Buttonhole Flap - Front Left	1 Single	Shell Material (RSU)
<b>5</b> of 16	Yoke	1 Paired	Shell Material

Pattern Components	Nomenclature	Quantity to be cut	Material
<b>6</b> of 16	Sleeve	1 Paired	Shell Material
<b>7</b> of 16	Cuff	2 Paired	Shell Material
<b>8</b> of 16	Sleeve Strap	1 Paired	Shell Material
<b>9</b> of 16	Placket	1 Paired	Shell Material
<b>10</b> of 16	Collar	1 Paired	Shell Material
<b>11</b> of 16	Pocket	1 Paired	Shell Material
<b>12</b> of 16	Pocket Flap A	1 Paired	Shell Material
<b>13</b> of 16	Pocket Flap B	1 Paired	Shell Material
<b>14</b> of 16	Shoulder Strap	2 Paired	Shell Material
<b>15</b> of 16	Pen Pocket	1 Paired	Shell Material
<b>16</b> of 16	Shoulder Patch	1 Paired	Loop tape
Legend: Cut 1 Single Cut 1 Paired Cut 2 Paired	 	Cut 1 Cut 2 Cut 4	

# Appendix B

### **Scale of Measurement Definitions and Location References**

Refer to the Scale of Measurements and drawing #1

- A. <u>Chest Circumference</u> (half only) When placed flat, the chest shall be the distance across the buttoned shirt, measured at the lowest point of the armholes.
- B. <u>Hem Circumference</u> (half only) When placed flat, the hem shall be the distance across the buttoned shirt, measured in a straight line from the lowest point on the side seam.
- C. <u>Back Length</u> The length shall be the distance measured from the base of the collar at center back of the neck to the bottom of the shirt.
- D. **<u>Back Width</u>** The back width shall be the distance across the back of the shirt measured at the bottom of the yoke.
- E. <u>Side Length</u> The distance measured from the lowest point of the armhole to the bottom edge of the hem.
- F. <u>Neck Circumference</u> The neckline circumference shall be the distance measured along the neck line from collar end to end.
- G. <u>Sleeve Overarm</u> The overarm sleeve length shall be the distance from the armhole at the shoulder to the top of the cuff.
- H. <u>Sleeve Underarm</u> The underarm sleeve length shall be the distance along the sleeve seam from the armhole to the top of the cuff.
- J. <u>Sleeve Length (Center Back Neckline to cuff edge)</u> The distance measured from the mid point of the neckline at the center back to the bottom edge of the cuff.
- K. <u>**Cuff Length</u>** The cuff length shall be the total distance from the outer edge to the opposite outer edge of the cuff.</u>
- L. <u>Shoulder Strap</u> The shoulder strap shall be the distance measured from the tip to the shoulder seam.
- M. <u>**Depth of Yoke**</u> The yoke depth shall be the distance measured from the collar seam at the center back to the bottom of the yoke.

# G.S. 1045-306

				Scale o	f Measur	<u>ements</u>	- Shirt, Sj	pecial Duty	, Blue, L	ong Slee	ve			
Siz Design		Body Measurements						Garment	Measure	ments				
Height	Size	Chest (Inches)	Chest Circ (half only)	Hem Circ (half only)	Back Length	Back Width	Side Length	Neckline Circ	Sleeve Over arm	Sleeve I Sleeve Under arm	Length Center Back Neck to cuff edge	Cuff Length	Shoulder Straps	Depth of Yoke
Short	XXS	31" - 33"	49	46.25	68	41	36	41.25	55	44.75	82	29.75	14	7.25
	XS	34" - 36"	52.75	50	70	43.5	37	42	55.5	44.75	83.75	30	14.75	8.25
	S	37" - 39"	56.5	53.75	72	46	38	43.25	56.25	45	85.75	30.5	15.5	9.25
	М	40" - 42"	60.25	57.5	74	48.5	39	44.25	56.75	45	87.5	30.75	16.25	10.25
	L	43" - 45"	64	61.25	76	51	40	45.5	57.25	45.25	89.5	31	17	11.25
	XL	46" - 48"	67.75	65	78	53.5	41	46.5	57.75	45.5	91.25	31.25	17.75	12.25
	2XL	49" - 51"	71.5	68.75	80	56	42	47.5	58.25	45.5	93.25	31.5	18.5	13.25
	3XL	52" - 54"	75.25	72.5	82	58.5	43	48.75	59	45.75	95.25	32	19.25	14.25
	4XL	55" - 57"	79	76.25	84	61	44	50	59.5	46	97	32.25	20	15.25
	5XL	58" - 60"	82.75	80	86	63.5	45	51.25	60	46.25	99	32.5	20.75	16.25
Regular	XXS	31" - 33"	49	46.25	73	41	41	41.25	59	48.75	86	29.75	14	7.25
	XS	34" - 36"	52.75	50	75	43.5	42	42.25	59.5	49	87.75	30	14.75	8.25
	S	37" - 39"	56.5	53.75	77	46	43	43.25	60.25	49	89.75	30.5	15.5	9.25
	М	40" - 42"	60.25	57.5	79	48.5	44	44.25	60.75	49.25	91.5	30.75	16.25	10.25
	L	43" - 45"	64	61.25	81	51	45	45.50	61.25	49.25	93.5	31	17	11.25
	XL	46" - 48"	67.75	65	83	53.5	46	46.50	61.75	49.5	95.5	31.25	17.75	12.25
	2XL	49" - 51"	71.5	68.75	85	56	47	47.75	62.25	49.75	97.25	31.5	18.5	13.25
	3XL	52" - 54"	75.25	72.5	87	58.5	48	49	63	49.75	99.25	32	19.25	14.25
	4XL	55" - 57"	79	76.25	89	61	49	50.25	63.5	50	101	32.25	20	15.25
	5XL	58" - 60"	82.75	80	91	63.5	50	51.5	64	50.25	103	32.5	20.75	16.25
Toleranc			1.5 cm	1.5 cm	1.5 cm	1.5 cm	1.5 cm	1 cm	1.5 cm	1.5 cm	1.5 cm	1 cm	0.5 cm	0.5 cm
Measure	ment Lo	cation	А	В	С	D	Е	F	G	Н	J	K	L	М

Scale of Measurements - Shirt Special Duty Blue Long Sleeve

## G.S. 1045-306

Siz Desigr		Body Measurements	Garment Measurements											
Height	Size	Chest (Inches)	Chest	Hem Circ	Back	Back	Side	Neckline	Sleeve Length			Cuff	Shoulder	Depth
			Circ. (half only)	(half only)	Length	Width	Length	Circ	Sleeve Over arm	Sleeve Under arm	Center Back Neck to cuff edge	Length	Straps	of Yoke
Tall	XXS	31" - 33"	49	46.25	78	41	46	41.5	63	52.75	90	29.75	14	7.25
	XS	34" - 36"	52.75	50	80	43.5	47	42.5	63.5	53	91.75	30	14.75	8.25
	S	37" - 39"	56.5	53.75	82	46	48	43.5	64.25	53	93.75	30.5	15.5	9.25
	М	40" - 42"	60.25	57.5	84	48.5	49	44.5	64.75	53.25	95.5	30.75	16.25	10.25
	L	43" - 45"	64	61.25	86	51	50	45.5	65.25	53.25	97.5	31	17	11.25
	XL	46" - 48"	67.75	65	88	53.5	51	46.75	65.75	53.5	99.5	31.25	17.75	12.25
	2XL	49" - 51"	71.5	68.75	90	56	52	48	66.25	53.75	101.25	31.5	18.5	13.25
	3XL	52" - 54"	75.25	72.5	92	58.5	53	49.25	67	53.75	103.25	32	19.25	14.25
	4XL	55" - 57"	79	76.25	94	61	54	50.5	67.5	54	105	32.25	20	15.25
	5XL	58" - 60"	82.75	80	96	63.5	55	51.5	68	54.25	107	32.5	20.75	16.25
Tolerance $\pm$ 1.5 cm 1.5 cm 1.5 cm 1.5 cm				1 cm	1.5 cm	1.5 cm	1.5 cm	1 cm	0.5 cm	0.5 cm				
Measurement Location A B C D E					E	F	G	Н	J	K	L	М		

Scale of Measurements - Shirt, Special Duty, Blue, Long Sleeve

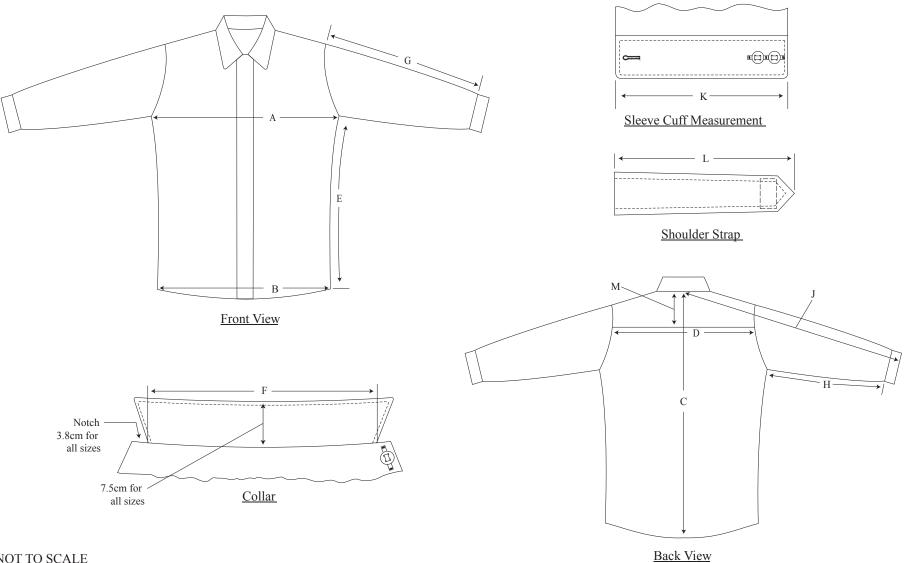
Note: All measurements are in centimetres unless otherwise specified.

SHIRT, SPECIAL DUTY, BLUE, LONG SLEEVE

G.S.1045-306

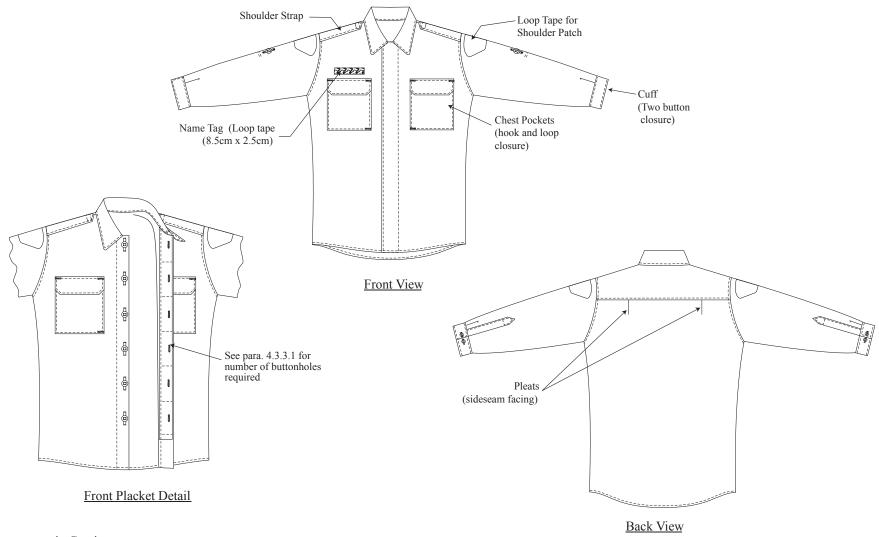
#### MEASUREMENT LOCATION CHART

Dwg. 1



NOT TO SCALE

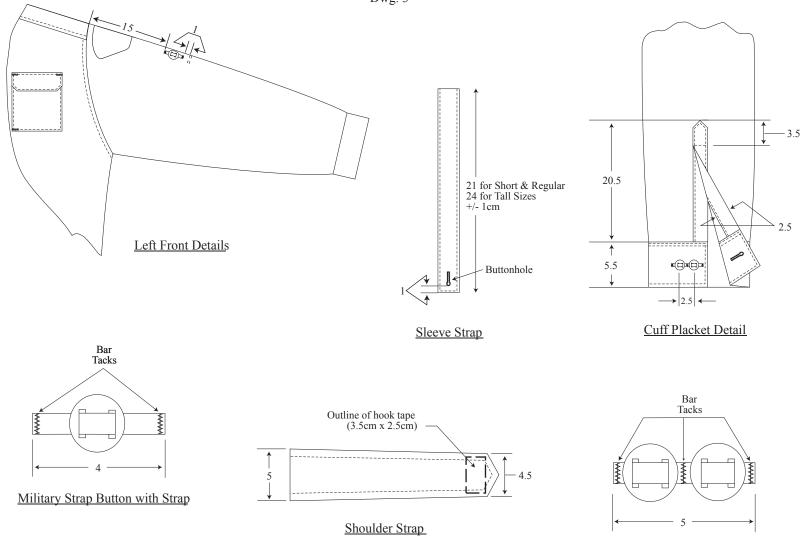
Dwg. 2



All Measurements in Centimetres NOT TO SCALE

SHIRT, SPECIAL DUTY, BLUE, LONG SLEEVE



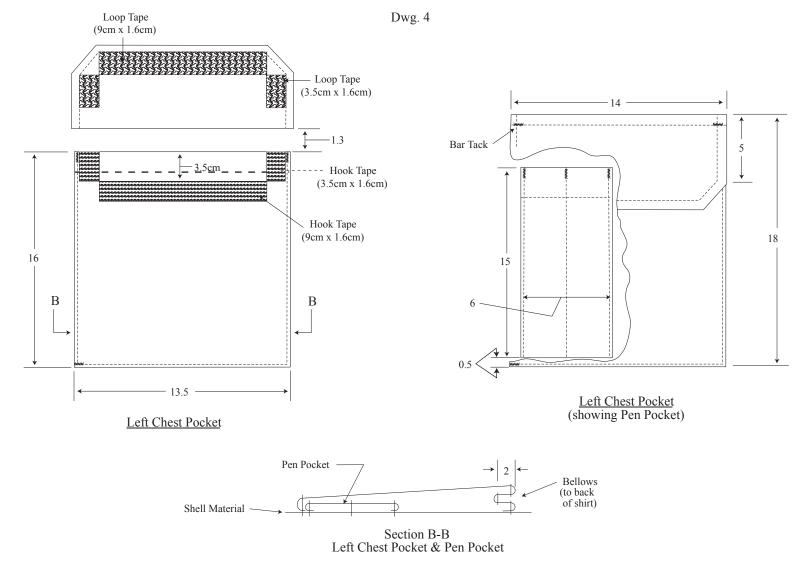


Military Strap Button with Strap for Cuff

All Measurements in Centimetres NOT TO SCALE

#### SHIRT, SPECIAL DUTY, BLUE, LONG SLEEVE

#### Chest Pocket Detail



All Measurements in Centimetres NOT TO SCALE