

**SPECIFICATIONS – JULY 2010**

**SFMTA ENFORCEMENT  
GORE-TEX FOUL WEATHER JACKET**

**ITEM 1 (Size: XS-XL)  
ITEM 1A (Size: 2XL-5XL)**

Fechheimer Brothers Company #78141, or acceptable like alternate.

**OUTER SHELL**

SUPPLEX SUPREME-WARP: 70 Denier Nylon FILLING: 3 ply 70 Denier Nylon. WEIGHT: 3.6 oz. per square yard. WEAVE: Plain. TEAR STRENGTH: Warp 9.0 lbs. Filling-8.0 lbs. TENSILE STRENGTH: Warp-200 lbs. Fill-150 lbs. ABRASION (4LB. DIAPHRAGM, 1LB HEAD LOAD): 300 COLOR: BLACK

**LINING**

Gore-Tex LTD liner. The waterproof breathable lining shall conform to the following requirements:

CHARACTERISTIC	REQUIREMENT	TEST METHOD
Moisture vapor Transmission rate (g/m <sup>2</sup> /24hr) Procedure B Procedure BW	600 minimum 5,000 minimum	ASTM E 96-80 ASTM E 96-80
Hydrostatic resistance (psi)	90 minimum	FED-STD-191A 5512
Water permeability		
Initial	No leakage	FED-STD-191A 5516
After cold flex Warp Fill	No leakage No leakage	ASTM D 2097-69 (1980)
After 100 Hours of Continuous Wet Flex (agitation)	No leakage	AATCC 135 FED-STD-191A 5516
After dry cleaning	No leakage	FED-STD-191A 5516
After synthetic perspiration	No leakage	Gore QCTM 510 FED-STD-191A 5516
After sustained pressure	No leakage	BS 3424: Part 26:1990 Method 29A
After sustained pressure, After exposure to contamination	No leakage	Gore QCTM 552 BS 3424: Part 26:1990 Method 29a

## **BASIC STYLING**

Waist length, single breasted, black Gore-Tex LTD breathable waterproof lining, removable Thinsulate body/sleeve liner, and front zipper storm front closure. Other features include a bi-swing back, raglan sleeves, sleeve zippers, pocket flaps, inverted pleated patch pockets with hand warmer openings, collar, knit wind collar, shoulder straps, badge tab, and zippered side vents with tab.

## **REMOVABLE LINER**

There shall be a zip-out insulated liner that incorporates CDS-200 Thinsulate® Thermal Insulation in the body portion of the liner and CDS-100 Thinsulate Thermal Insulation in the sleeves. The insulation shall be quilted to black 86 pick nylon on the face side of the liner and nylon tricot on the backing. There shall be black knit inserts placed under the arm of the liner sleeves approximately 9" in length and 3 ½" at widest center point for comfort and ease of movement. The liner will attach to the jacket with a grip-lock non-run zipper.

## **SHELL FOR REMOVABLE LINER**

86 pick. 100% Nylon Taffeta. WEAVE-Plain. DENIER: Warp-70. Fill-70. WEIGHT 1.8 oz./square yard

Color : Black.

## **INSULATION**

3M Thinsulate, with a scrim covering front and back to prevent migration of insulation fibers. Lining should be quilted horizontally with a minimum of a 6" railroad pattern for maximum thermo retention. Excess stitching and openings in liner cause extreme loss of body heat.

## **BODY**

Body - 3M Thinsulate CDS 200 composed of 65% Polyolefin microfibers and 35% 6 Denier Polyester staple fibers (by weight). Shall weigh approximately 200 grams/square meter horizontally quilted

## **SLEEVES**

Sleeves - 3M Thinsulate CDS 100 composed of 65% Polyolefin microfibers and 35% 6 Denier Polyester staple fibers (by weight). Shall weigh approximately 100 grams/square meter horizontally quilted. The perimeter of the liner shall be bound with black nylon taffeta tape and the liner shall have a black vislon zipper track to allow the liner to zip out of the jacket.

The liner sleeves will have a female snap by the insleeve seam approximately no more than 1" from the end of the sleeve. Attached to the jacket sleeve in a corresponding location will be a tab made of shell material with a male snap. The tab and snap are used to secure the liner sleeves. The liner shall have a left breast patch pocket. Each sleeve hem must be finished with bias tape so there are no raw edges.

The liner shall be designed with vents corresponding with the zippered side vents on the jacket to allow easy access to weapon or equipment.

## **BACK**

There shall be a one piece back with a bi-swing for ease of movement. The bi-swing shall be approximately 9" in length and approximately 1 ½" in depth. It shall be constructed with an elasticized anchor so the bi-swing will snap back into proper position after being extended. It shall be constructed with an elasticized anchor made of a 2" wide strip of Lycra so the bi-swing will snap back into proper position after being extended.

## **INTERLINING**

100% Cotton Osnaburg, 3.45 yards/lb. with maximum shrinkage of 3-4% in warp and fill. Interlining to be used in collar, pocket flaps, shoulder straps, front waistband, and storm front.

## **POCKETS**

There shall be an inverted pleated patch pocket on each front of the jacket. The pockets shall be approximately 7 ½" wide and approximately 8" in depth. Pockets shall be constructed with hand warmer openings on the side. The surface portion of the hand warmer pockets will be the jacket front and the top part of the pocket (the area coming in contact with the back of the users hand) will be black Kasha or similar. The top and bottom of the side openings shall be securely bartacked.

The patch pockets will have an opening at the top underneath the flaps. The top of each patch pocket must be bound with black nylon binding. The top entry pockets shall be made of black Kasha or similar. Back of box pleated patch pocket must be fully lined.

The left front pocket will have a pencil compartment opening on the inside corner of the pocket flap. The opening will be reinforced by bartacks.

The pocket flaps shall have a metal snap closure system. The male portion of the snaps shall be located on the underside of each flap and the female portion of the snaps shall be in a corresponding location on the breast pockets to provide a neat and secure closure. Each flap shall have a dummy buttonhole with a 24 ligne metal button on top of the flap attached with a kotter key on the bottom side of the flap.

## **POCKETS**

The jacket design will include an inside left breast pocket. The pocket shall have a minimum width of 6" and a minimum depth of 8 ¼" (measured from the bottom of the pocket opening). The inside pocket will incorporate a zipper closure system utilizing a 6" zipper that is made with bottom stops at both ends.

## **ELASTIC WAISTBAND**

Separate waistband shall be elasticized in the back. There shall be two rows of stitching each approximately ½" apart, centered on the waistband, and extending through the elastic. The elastic shall be securely tacked at each end. There will be a zipper sewn into each side for access. Elasticized tabs shall be sewn into the waistband for closure of the side tab. There shall be two belt keeper tabs, with sewn eyelets, made of shell fabric and located approximately 2" from back zipper side vents.

## **SLEEVES**

Three piece, raglan style sleeves with cuffs. The top half of the cuff must be elasticized and the bottom half to close with a tab and double snap for cuff adjustment. The sleeves shall be constructed with approximately 7" black zippers on the underseams. This system permits emblem attachment without puncturing the Gore-Tex by allowing access to the shell.

## **COLLAR**

The collar shall be produced using two plies of the shell fabric plus the interlining. All plies to be cut on bias. The interlining shall be sewn to the undercollar. The collar points shall be well shaped and symmetrical. The front storm flap shall extend to the top of the collar. Collar and collar interlining must be cut on bias. Under collar is to be constructed to conceal a removable Gore-Tex Hood.

## **EPAULETS**

Jacket shall be designed with epaulets measuring approximately 2 ½" at the widest point and tapering to 1¾" at the narrow end. It shall be fastened with a 24 ligne metal uniform button and buttonhole. Shoulder strap to be cross-stitched and sewn down.

#### **STORM FLAP**

There shall be a double front storm flap, one on top and one under the top storm flap. The top storm flap will finish approximately 2 ¾" wide and will extend from the bottom of the waistband to the top of the collar point. There shall be six black metal snaps centered down the top storm flap. The under storm flap shall finish approximately 2" wide and will extend from the bottom of the waistband to the top of the collar point. The male portion of the snaps shall be positioned on the under storm flap to correspond to the placement of the snaps on the top storm flap to provide a neat and secure closure. Center of snap to be plugged, concealing open portion of snap.

#### **SIDE VENTS**

The jacket shall be designed with side vents to allow for easy access to equipment. The vents shall incorporate 10" zippers. At the bottom of each vent there shall be an elasticized tab and snap closure system to prevent gaping between the front and rear portion of the jacket when the side zippers are in the full upward position.

#### **WEEP EYELETS**

To have black metal weep eyelets located at bottom of sleeve (both panels) and front & back body panels.

#### **BADGE TAB**

To be made of self material with two metal eyelets. The bottom of the badge tab shall be 2 ¼" - 2 ½" above the left pocket flap.

#### **FRONT ZIPPER**

The front zipper opening shall be accomplished with a two way pull, heavy-duty nylon molded zipper. Zipper will extend from bottom of waistband to collar seam.

#### **KNIT WIND COLLAR**

There shall be a knit wind collar of 1 x 1 ribbed spun nylon sewn into the collar seam measuring 14" long by 1½" wide at the center.

#### **SEAM WATERPROOFING**

Seams shall be taped with 7/8" two layer Gore seam tape. There shall be no stitching through the LTD liner except those seams that are waterproofed. There will be metal eyelets on the sleeve bottoms and above the front and back waistband, for water drainage in laundering.

#### **SIZE TAG AND CARE INSTRUCTIONS**

The jacket shall have a sewn in label giving care instructions and a permanent woven size tag. The jacket shall also have a label indication lot number, size, fiber content, and RN number. Garment must be made in the United States of America and bear a union label.

#### **SIZE RANGE**

The jacket must be available in the following sizes: XS – XL; 2XL – 5XL  
Length should come in Regular, Short and Long.

## **SPECIFICATIONS – JULY 2010**

### **SFMTA ENFORCEMENT MALE WOOL TROUSERS**

#### **ITEM 2 (Sizes 28-42)**

#### **ITEM 2A (Sizes 44-64)**

Fechheimer Brothers Company #SFPDTRS01, or acceptable like alternate.

#### **FABRIC**

Raeford 13507-2135 19-19 1/2 oz./linear yard (60" width) 100% Wool Elastique two ply warp and filling with a breaking strength of 115 lbs. in the warp and 90 lbs. in the filling. Color: Dark Navy

#### **DESIGN**

Trouser shall be manufactured from a men's uniform trouser pattern. The trouser styling shall incorporate a plain front and straight leg bottoms. The trouser will have two straight side pockets, two hip pockets, a watch pocket and two club pockets, one below each hip pocket.

#### **POCKETING**

The pocketing shall be 70% Polyester / 30% Cotton, 2.9 oz. per square yard (60" width) with a minimum 78 X 64 count. Pocketing must have a durable press finish and the color of the pocketing must be black.

#### **POCKET DESIGN**

The two side pockets will have an approximate opening of 6 1/2" and an approximate depth of 5 3/4" measured from the bottom of the pocket opening. Side pockets shall have triangle bartacks at top and bottom of pocket openings. Pockets shall be constructed using the stitch, turn, and topstitch method. Pocket facings shall be made of the basic fabric and measure approximately 1 1/2" from the bottom of the pocket opening.

The two hip pockets shall have an approximate opening of 6" and an approximate depth of 7 1/2" measured from the bottom of the pocket opening. Hip pockets shall be constructed using the double welt method on a REECE PW machine and the welts shall be finished in such a manner that there is no topstitching (topstitched hip pocket welts shall be cause for rejection). The corners of the hip pockets shall have triangle bartacks for reinforcing strength.

The watch pocket shall be located on the right front. This pocket shall have an approximate opening of 3 1/4" and an approximate depth of 4". The front of the pocket shall be made of pocketing fabric and the back of the pocket shall be made of basic fabric and the two pieces are securely stitched together. Each corner of the pocket opening shall have triangle bartacks.

There shall be club pockets located 5 1/4" (plus or minus 1/4") below each hip pocket. The club pockets shall be 1-1/2" (plus or minus 1/4") from the side seam with a minimum opening of 3 1/2" and a minimum depth of 8". Pocketing material to be the same as side and hip pockets. Club pockets shall be constructed using the double welt method on a REECE PW machine and finished in such a manner that there is no topstitching (topstitched club pockets shall be cause for rejection). The corners of the club pockets shall have triangle bartacks for reinforcing strength.

#### **WAISTBAND**

The waistband shall be constructed using the "closed method" and shall measure 2" wide when finished. The waistband curtain is to be made of the same fabric and color as the pocketing material and must be attached to the trouser with a zig-zag stitch. The waistband must contain matter to prevent roll over and have three-strand strips to

keep shirts tucked in. The waistband closure shall be accomplished with a crushproof hook and eye. The hook and eye shall be reinforced with stays made of non-woven fabric that are anchored by the topstitching for the fly facing and curtain. This topstitching must be to the top of the waistband. The waistband must be topstitched 1/16" below the waistband seam for added strength.

## **FLY**

Trouser shall have a metal memory lock zipper. There shall be a French Fly tab closure on the inside of the right fly. The tab shall be double ply made of the basic cloth (tabs made of pocketing material or a "grown on" French Fly will be cause for rejection). The right fly shall be lined with the same fabric as the waistband curtain and pocketing. The fly lining shall be sewn to the left fly below the zipper in a neat and durable manner. A button shall be located on the left fly corresponding with the French Fly tab to provide a clean and comfortable closure. There shall be a firm straight bartack at the bottom of the fly going through the zipper tape. The crotch shall be lined in front.

## **BELT LOOPS**

There shall be approximately seven ¾ " wide interlined belt loops. All loops (except for the back center loop) must be sewn into the bottom of the waistband ("dropped" belt loops are cause for rejection) and the top of the belt loops shall be caught into the waistband curtain seam with a rocap machine. The bottom of the center back loop shall be tacked to the trouser and the top of the loop tacked to the outside of the waistband.

## **STITCHING, PRESSING & FINISHING**

Trouser must be stitched with matching thread. Trouser must be neatly pressed and properly shaped. Outseams and inseams must be pressed open. Trouser must be cleaned and finished to eliminate loose threads.

## **LABELS**

Trouser must have a care label permanently affixed that also indicates the size. A paper ticket showing the size, fabric content, cut number, and WPL number must be on the outside of the waistband. Garment must be made in the United States of America and bear a union label.

## **STOCK SIZES**

Trouser must be available in the following stock sizes:

REGULAR RISE: 28 - 56 (EVEN ONLY OVER 38)

## SPECIFICATIONS – JULY 2010

### SFMTA ENFORCEMENT MALE LONG SLEEVE SHIRT SPECIFICATIONS ITEM 3 (Size: 14 ½ - 18 ½) ITEM 3A (Size: 19 – 22)

Flying Cross #45W6625, or acceptable like alternate

<b>FABRIC</b>	<u>Content:</u>	All synthetic tropical weave 65% Dacron Polyester/35% Rayon conforming to the following specifications:
	<u>Weight:</u>	6.6 oz./yd. 2
	<u>Construction:</u>	49 warp X 36 filling yarns per sq. inch all yarns size 10/1 singles
	<u>Air Permeability:</u>	Ft. 3/Min/Ft. 2 131 ASTM D 737-46
	<u>Tensile:</u>	Break Strength 105 warp - 90 filling (lbs.)
	<u>Properties:</u>	Tear Strength 9.7 warp - 8.5 filling (lbs.)
	<u>Pilling:</u>	Minimum 4.9 rating

#### COLOR

Medium Blue.

#### STYLE

Plain front coat style, form fitting, collar attached, long sleeves with barrel cuffs. Two pleated breast pockets with scalloped flaps. Shoulder straps. Full badge reinforcement. Matching inside yoke and collar band of high luster Dacron/Cotton Poplin.

#### COLLAR & STAND

Collar points to measure 3 ¼ " long with fused-in Mylar stays. Collar height at rear 1 ½ ". Topstitched ¼ " off the edge. Collar stand to measure 1 5/16" at rear and band to be die cut and interlined with stabilized Mello-Press (#285 in collar, "Crease N Tack" in band).

#### FRONT

The left front shall have a top center 1 ½ " wide with two rows of stitches 7/8" apart. The shirt will have 7 buttons and buttonholes on the front, spacing between each will be 3 ¾ " except the spacing between the neck button and the first button on the front, which will be 3 ¼ ". Top center interlined with #550 Mello-Press. The fronts shall be joined to the yoke so that both raw edges of the yoke are turned under, with the front sandwiched between, then all three are stitched down with a 1/16" raised stitch. Safety stitch joining unacceptable.

#### SHOULDER STRAPS

Asymmetrical shape top-stitched ¼ " off the edge to be set on yoke with leading topstitches conforming to front joining seam. To measure 2" at sleeve tapering to 1 3/8" and set not more than ½ " from folded collar. Cross stitched approximately 2" from sleeve seam. Creased and edge stitched shoulder strap construction unacceptable.

## **BADGE REINFORCEMENT**

Two-ply sling 1" wide centered over left pocket and stitched to shoulder seam and flap setting stitch. To have 2 buttonhole eyelets approximately 1 ¼" from top of pocket flap spaced 1 ¼" apart and centered on sling.

## **POCKETS**

Two breast pockets with 1 ½" stitched pleats. Pocket to measure 5 5/8" wide, 6" deep. Left breast pocket to have approximately 1 ½" pencil stitch. Each pocket to have Velcro tape ¾" long by ½" wide, positioned on both edges of pocket to correspond with outer scalloped flap points.

## **FLAPS**

Deep scalloped design to measure 5 7/8" across and 2 ¾" in depth at center point, 2 ¼" at sides. Secured to shirt front approximately ¼" above pocket. Left flap to have invisible pencil opening 1 ½" to correspond precisely with pencil slot of pocket. Both flaps to be interlined with #550 stabilized Mello-Press. Creased and edge stitched pocket flap construction unacceptable. Underside of flap to have Velcro tape ¾" long by ½" wide, positioned on outer points of both pocket flaps.

## **SLEEVES**

Straight at width - no bias - of one piece shaped at head, jacket type. Sleeve vent 5 ½" long with top and bottom facings. Top facing to measure approximately 1 1/8" wide point blocked at top. Underfacing is to be approximately ½" wide.

## **CUFFS**

To measure 3" in depth with rounded corners. With two buttons and corresponding buttonholes on each cuff and one button and buttonhole in center of facing. Both cuffs to be interlined with stabilized #550 Mello-Press.

## **BUTTONS**

First grade 19-ligne pearlescent plastic to match.

## **STITCHING**

To have single needle stitching throughout the shirt. All topstitched ¼" off the edge. Sleeve inserting and side close felling safety stitched.

## **THREAD**

All sewing threads to be fast color polyester core polyester wrap to match.

## **MILITARY CREASES**

Five silicone Lintrak military creases on all shirts. One crease on each front to be centered vertically through pocket and flap. Spacing for military creases on shirt back to be proportionate to the size of the shirt as follows: sizes 14 through 15 ½ - creases to be 4 ¾" apart; sizes 16 through 18, inclusive - creases to be 5 3/8" apart as measured from center crease.



**FINISHED  
LENGTH  
DIMENSIONS**

<u>SIZE</u>	<u>SIDE SEAMS</u>	<u>BACK LENGTH</u>
14	17 ¾	31 ¼
14 ½	17 7/8	31 ½
15	18	31 ¾
15 ½	18 1/8	32
16	18 ¼	32 ¼
16 ½	18 3/8	32 ½
17	18 ½	32 ¾
17 ½	19 5/8	34
18	19 ¾	34 ¼
18 ½	19 7/8	34 ½
19	20	34 ¾
20	20 ¼	35 ¼

## SPECIFICATIONS – JULY 2010

### SFMTA ENFORCEMENT MALE SHORT SLEEVE SHIRT SPECIFICATIONS

#### ITEM 4 (Size: XS – 2XL) ITEM 4A (Size: 3XL – 5XL)

Flying Cross #95R6625, or acceptable like alternate.

<b>FABRIC</b>	<u>Content:</u>	All synthetic tropical weave 65% Dacron Polyester/35% Rayon conforming to the following specifications:
	<u>Weight:</u>	6.6 oz./yd. 2
	<u>Construction:</u>	49 warp X 36 filling yarns per sq. inch all yarns size 10/1 singles
	<u>Air Permeability:</u>	Ft. 3/Min/Ft. 2 131 ASTM D 737-46
	<u>Tensile:</u>	Break Strength 105 warp - 90 filling (lbs.)
	<u>Properties:</u>	Tear Strength 9.7 warp - 8.5 filling (lbs.)
	<u>Pilling:</u>	Minimum 4.9 rating

#### COLOR

Medium Blue.

#### STYLE

The style shall be known as a convertible collar, short sleeve, coat shirt, with full-length tail and form fitting. The shirt to have two outside breast pockets and scalloped flaps having one button each. Also to have a full badge sling and shoulder straps. The back to have a double yoke, with high luster Dacron/Cotton Poplin yoke trim.

#### COLLAR

Convertible collar shall be one piece and to measure 3 ¼ " long at points. The collar shall be made with fused-in Mylar stays and stabilized with #285 Mello-Press. Collar to be topstitched ¼ " off the edge.

#### FRONT

Each front shall have a facing 3" in width. The left front shall have a top center 1 ½ " wide with two rows of stitches 7/8" apart. Stitching on top center is not to be visible on the turn-back facing. The shirt will have 7 buttons and buttonholes on the front, spacing between each will be 3 ¾ " except the spacing between the neck button and the first button on the front, which will be 2 ½ ". Top center interlined with #550 Mello-Press. The fronts shall be joined to the yoke so that both raw edges of the yoke are turned under, with the front sandwiched between, then all three are stitched down with a 1/16" raised stitch. Safety stitch joining unacceptable.

#### SHOULDER STRAPS

Asymmetrical shape top-stitched ¼ " off the edge to be set on yoke with leading topstitches conforming to front joining seam. To measure 2" at sleeve tapering to 1 3/8" and set not more than ½ " from folded collar. Cross stitched approximately 2" from sleeve seam. Creased and edge stitched shoulder strap construction unacceptable.

#### BADGE REINFORCEMENT

Two-ply sling 1" wide centered over left pocket and stitched to shoulder seam and flap setting stitch. To have 2 buttonhole eyelets approximately 1 1/4" from top of pocket flap spaced 1 1/4" apart and centered on sling.

## POCKETS

Two breast pockets with 1 ½ " stitched pleats. Pocket to measure 5 5/8" wide, 6" deep. Left breast pocket to have approximate 1 ½ " pencil stitch. Each pocket to have Velcro tape approximately ¾ " long by ½ " wide, positioned on both edges of pocket to correspond with outer scalloped flap points.

## FLAPS

Deep scalloped design to measure 5 7/8" across and 2 ¾ " in depth at center point, 2 ¼ " at sides. Secured to shirtfront approximately ¼ " above pocket. Left flap to have invisible pencil opening approximately 1 ½ " to correspond precisely with pencil slot of pocket. Both flaps to be interlined with #550 stabilized Mello-Press. Creased and edge stitched pocket flap construction unacceptable. Underside of flap to have Velcro tape approximately ¾ " long by ½ " wide, positioned on outer points of both pocket flaps.

## SHORT SLEEVES

Sleeves are to be straight and whole, to have ¾ " hem and to finish approximately 9" long from shoulder seams.

## BUTTONS

First grade 19-ligne pearlescent plastic to match.

## STITCHING

Single needle stitching is used throughout the shirt. All topstitched ¼ " off the edge. Sleeve inserting and side close felling safety stitched.

## THREAD

All sewing threads to be fast color polyester core polyester wrap to match.

## MILITARY CREASES

Five silicone military creases on all shirts. One crease on each front to be centered vertically through pocket and flap. Spacing for military creases on Shirt back to be proportionate to the size of the shirt as follows: sizes 14 thru 15 ½ - creases to be 4 ¾ " apart; sizes 16 thru 18, inclusive - creases to be 5 3/8" apart as measured from the center crease.

## CONSTRUCTION

Collars, flaps and shoulder straps are made by the conventional construction. Top ply, bottom ply and interlining are first stitched together, then turned right side out, and finally topstitched.

## FINISHED LENGTH DIMENSIONS

<u>SIZE</u>	<u>SIDE SEAMS</u>	<u>BACK LENGTH</u>
XS	17 5/8	31
S	17 7/8	31 ½
M	18 1/8	32
L	18 3/8	32 ½
XL	19 5/8	34
2XL	19 7/8	34 ½
3XL	20 1/8	35
4XL	20 3/8	35 ½
5XL	21 5/8	36

## SPECIFICATIONS – JULY 2010

### SFMTA ENFORCEMENT FEMALE LONG SLEEVE SHIRT SPECIFICATION

ITEM 5 (Sizes: 28 – 46)

ITEM 5A (Sizes: 48 – 52)

Flying Cross #102W6625, or acceptable like alternate.

<b>FABRIC</b>	<u>Content:</u>	All synthetic tropical weave 65% Dacron Polyester/35% Rayon conforming to the following specifications:
	<u>Weight:</u>	6.6 oz./yd. 2
	<u>Construction:</u>	49 warp X 36 filling yarns per sq. inch All yarns size 10/1 singles
	<u>Air Permeability:</u>	Ft. 3/Min/Ft. 2 131 ASTM D 73746
	<u>Tensile:</u>	Break Strength 105 warp 90 filling (lbs.)
	<u>Properties:</u>	Tear Strength 9.7 warp 8.5 filling (lbs.)
	<u>Pilling:</u>	Minimum 4.9 rating

#### COLOR

Medium Blue.

#### STYLE

Plain front coat style, formfitting, banded collar attached, long sleeves with barrel cuffs. Two pleated breast pockets with scalloped flaps. Shoulder straps. Full badge reinforcement. Matching inside yoke and collar band of high luster Dacron/Cotton Poplin.

#### COLLAR AND STAND

Collar points to measure approximately 3 ¼ " long with fused in Mylar stays. Collar height at rear to be 1 ½ ". Topstitched ¼ " off edge. Collar stand to be 1 5/16" at rear and band to be die cut and interlined with stabilized Mello Press (#285 in collar,).

#### FRONT

The front shall have a top center 1 ½ " wide with two rows of stitches 7/8" apart. The right front shall have 6 buttonholes spaced 3 ½ " apart and to be set ¾ " from edge. Second button to be spaced approximately 3 ¼ " from top button, balance of buttons approximately spaced 3 ½ " apart. Top center interlined with #550 Mello Press. The fronts shall be joined to the yoke so that both raw edges of the yoke are turned under, with the front sandwiched between, then all three are stitched down with a 1/16" raised stitch. Safety stitch joining unacceptable.

#### SHOULDER STRAPS

Asymmetrical shape top-stitched ¼ " off the edge to be set on yoke with leading topstitches conforming to front joining seam. To measure 2" at sleeve tapering to 1 3/8" and set not more than ½ " from folded collar. Cross stitched approximately 2" from sleeve seam. Creased and edge stitched shoulder strap construction unacceptable.

## **BADGE REINFORCEMENT**

Two-ply sling 1" wide centered over left pocket and stitched to shoulder seam and flap setting stitch. To have 2 buttonhole eyelets approximately 7/8" from top of pocket flap spaced 7/8" apart and centered on sling.

## **POCKETS**

Two breast pockets with 1 ¼ " stitched pleats. Pocket to measure 5" wide, 5" deep. Each pocket to have Velcro tape ¾ " long by ½ " wide, positioned on both edges of pocket to correspond with outer scalloped flap points.

## **FLAPS**

Deep scalloped design to measure 5 ¼ " across and 2 ¼ " in depth at center point, 1 ¾ " at sides. Secured to shirt front approximately ¼ " above pocket. Left flap to have invisible pencil opening 1 ¼ ". Both flaps to be interlined with #550 stabilized Mello Press. Creased and edge stitched pocket flap construction unacceptable. Underside of flap to have Velcro tape ¾ " long by ½ " wide, positioned on outer points of both pocket flaps.

## **SLEEVES**

Straight at width no bias of one piece shaped at head, jacket type. Sleeve vent approximately 4 ¾ " long with top and bottom facings. Top facing to measure 1 1/8" wide point blocked at top. Under facing ½ " wide.

## **CUFFS**

To measure 2 ½ " in depth with rounded corners. With two button adjustable cuff. Both cuffs to be interlined with stabilized #550 Mello Press.

## **BUTTONS**

First grade 19-ligne pearlescent plastic to match.

## **STITCHING**

Single needle stitching is used throughout the shirt. All topstitched ¼ " off the edge. Sleeve inserting and side close felling safety stitched.

## **THREAD**

All sewing threads to be fast color polyester core polyester to match.

## **MILITARY CREASES**

Five silicone military creases on all shirts. One crease on each front to be centered vertically through pocket and flap. Spacing for military creases on shirt back to be proportionate to the size of the shirt.

## **CONSTRUCTION**

Collars, flaps and shoulder straps are made by the conventional construction. Top ply, bottom ply and interlining are first stitched together, then turned right side out, and finally topstitched.

## SPECIFICATIONS – JULY 2010

### SFMTA ENFORCEMENT FEMALE SHORT SLEEVE BLUE SHIRT

**ITEM 6 (Sizes: 28 – 46)**

**ITEM 6A (Sizes: 48 – 52)**

Flying Cross #152R6625, or acceptable like alternate.

<b>FABRIC</b>	<u>Content:</u>	All synthetic tropical weave 65% Dacron Polyester/35% Rayon conforming to the following specifications:
	<u>Weight:</u>	6.6 oz./yd. 2
	<u>Construction:</u>	49 warp X 36 filling yarns per sq. inch All yarns size 10/1 singles
	<u>Air Permeability:</u>	Ft. 3/Min/Ft. 2 131 ASTM D 73746
	<u>Tensile:</u>	Break Strength 105 warp 90 filling (lbs.)
	<u>Properties:</u>	Tear Strength 9.7 warp 8.5 filling (lbs.)
	<u>Pilling:</u>	Minimum 4.9 rating

#### COLOR

Medium Blue.

#### STYLE

The style shall be known as a convertible collar, short sleeve, coat Shirt, with full-length tail and form fitting. The shirt to have two outside breast pockets and scalloped flaps having one button each. Also to have full badge sling and shoulder straps. The back to have a double yoke, with high lustre Dacron/Cotton band and yoke trim.

#### COLLAR

Convertible collar shall be one piece and to measure 2 7/8" long at points. The collar shall be made with fused in Mylar stays and stabilized with #285 Mello Press. Collar to be topstitched ¼ " off the edge.

#### FRONT

The front shall have a top center 1 ½ " wide with two rows of stitches 7/8" apart. Stitching on the top center is not to be visible on the turn back facing. The right front shall have approximately 6 buttonholes spaced approximately 3 ½ " apart and to be set ¼ " from edge. Second button to be spaced approximately 2 ½ " from top button, balance of buttons spaced approximately 3 ½ " apart. Top center to be interlined with #550 Mello Press. The fronts shall be joined to the yoke so that both raw edges of the yoke are turned under, with the front sandwiched between, then all three are stitched down with a 1/16" raised stitch.

#### SHOULDER STRAPS

Asymmetrical shape top stitched ¼ " off the edge to be set on yoke with leading topstitch conforming with front joining seam. To measure 2" at sleeve tapering to 1 3/8" and set not more than ½ " from folded collar. Cross stitched approximately 2" from sleeve seam.

## **BADGE REINFORCEMENT**

Two-ply sling 1" wide centered over left pocket and stitched to shoulder seam and flap setting stitch. To have 2 buttonhole eyelets approximately 7/8" from top of pocket flap spaced 7/8" apart and centered on sling.

## **POCKETS**

Two breast pockets with 1 ¼ " stitched pleats. Pocket to measure 5" wide, 5" deep. Each pocket to have Velcro tape approximately ¾ " long by ½ " wide, positioned on both edges of pocket to correspond with outer scalloped flap points as sample.

## **FLAPS**

Deep scalloped design to measure 5 ¼ " across and 2 ¼ " in depth at center point, 1 ¾ " at sides. Secured to shirt front approximately ¼ " above pocket. Left flap to have invisible pencil opening 1 ¼ ". Both flaps to be interlined with #550 stabilized Mello Press. Creased and edge stitched pocket flap construction unacceptable. Underside of flap to have Velcro tape ¾ " long by ½ " wide, positioned on outer points of both pocket flaps.

## **SHORT SLEEVES**

Sleeves are to be straight and whole, to have ¾ " hem and to finish approximately 8 ½ " long from shoulder seams.

## **BUTTONS**

First grade 19 ligne pearlescent plastic to match.

## **STITCHING**

Single needle stitching throughout the shirt. All topstitched ¼ " off the edge. Sleeve inserting and side close felling safety stitched.

## **THREAD**

All sewing threads to be fast color polyester core polyester wrap to match.

## **MILITARY CREASES**

Five silicone military creases on all shirts. One crease on each front to be centered vertically through pocket and flap. Spacing for military creases on shirt back to be proportionate to the size of the shirt.

## **CONSTRUCTION**

Collars, flaps and shoulder straps are made by the conventional construction. Top ply, bottom ply and interlining are first stitched together, then turned right side out, and finally topstitched.