

# **CONSTRUCTION AND MANUFACTURING SPECIFICATIONS**

## **A. GENERAL**

Coats, trousers, blouses and all major parts of the uniform are made to fit the nearest stock size from the information supplied by the company representative. This is done for a better year to year fitting program and allows more fitting flexibility. Exceptions are made on unusual sizes wherein the garment is cut and produced to the measurements taken by the company representative.

## **B. LABOR**

All garments must be UNION made and shall include the union label. This is to insure consistency and uniform of the manufactured goods. Uniforms made otherwise may have a tendency toward sloppiness and unprofessional tailoring, due to the unskilled cutting and sewing operations.

## **C. SHIPPING**

Uniforms are to be shipped on wishbone style hangers. Hangers are to be hard plastic, not wood. Wooden hangers have a tendency to pick and pull the basic fabric, and they are not acceptable. The hangers must be bent and rounded at the top to allow the shoulder area of the garment to be spread and hung properly. Each uniform must be delivered in its own clear polyethylene bag to prevent soiling. Uniforms must be delivered in 200 lb. Test cardboard wardrobe containers, opening from the front, and having a metal bar reinforcement at the top with clasp to prevent hangers from disengaging from the metal structure. Each carton will be properly marked on the outside, with identification numbers of the uniforms contained in that specific carton.

## **D. IDENTIFICATION**

Each major garment item is to have identification numbers sewn into the individual pieces to allow for quick and easy issuing. Coats, trousers, and blouses are to have woven numerals. Trousers are to include inseam and waist information for future reference; coats shall have chest size and length indicated on a linen ticket. The original order is to include a bound booklet with the numbers of each uniform corresponding to the particular size of that uniform, arranged from the smallest to the largest. Size information shall include chest size, height, weight, and inseam for each

uniform. Bound in the identification record shall be a size chart for use as reference for purchase of future uniforms.

#### E. INSPECTION

All garments are to be carefully inspected before final packing and shipment. All thread ends to be picked and cut and specifications, trim and details to be critically checked for each individual garment before shipment. Buttons to be applied and sewn at that time.

#### F. VERIFICATION OF FABRIC PROCESSING AND STABILIZATION

Any dacron/wool blend fabric from any vendor must be professional cold water and alcohol sponged, decated, and inspected. Bidder must submit in writing, certification that dacron/wool blend fabric will have undergone this fabric stabilization prior to manufacture of the uniforms. Also, such certification should be submitted in writing by an officer of the bidding company. The company actually performing the stabilizing process must be indicated, with an individual or officer of said company to contact for verification of processing. As dacron/wool garments having not undergone such processing can experience significant and excessive shrinkage, bidders not providing such a sponging treatment and certification in this bid will be disqualified.

#### G. SUSTAINABLE VERIFICATION CERTIFICATE

Any 14 oz Polyester fabrics must be certified by UTrust Verification Program and must be made from ECO-FRIENDLY textile products, developed from sustainable fibers. A UTrust Verification Certificate must be attached to this bid or RFP Solicitation. This certificate must be signed by an individual or officer for UTrust.

## **COAT SPECIFICATIONS-Lightweight and No Construction**

### **1. PATTERNS**

- a. Patterns are to be marked, graded, and cut using a computerized system to insure accuracy.
- b. Patterns are to cover a full range of sizes, including male, female, short, regular, long, and extra long from size 26 to 60.

### **2. FUSING**

- a. Certain trim designs call for added reinforcement. This is to be done with Thermal Bond non-woven polyamide 100% polyester 1.8oz/sq.yd fusible. It is to "tear away" from areas not covered with braid or other trim.
- b. Use of Pellon SF134 as reinforcement for trim is unacceptable.
- c. The entire coat front outer fabric is to be reinforced, in addition to the "traditional" sewn innerlining, whenever looped braid designs are specified.
- d. When sleeve cuff trim is utilized, the lower sleeve is to be reinforced from the cuff bottoms, up as needed.

### **3. SHOULDER PADS**

- a. Shoulder Pads are to consist of heavy density, 100% PREMIUM grade preshrunk "Harsh" quality combed Indian cotton ("Harsh" quality being resilient, bouncy).
- b. It is a large semi-oval shape, approximately 10" x 7" on extended shoulder patterns. Dimensions for regular shoulder patterns are to be approximately 4 1/2" x 7 1/2".
- c. The entire pad is covered with a print cloth, and quilt stitched throughout to prevent wadding.
- d. Shoulder Pads consisting of multiple layers of needle-punched preformed polyester are not acceptable.
- e. Stay cloth is not acceptable for the shoulder pad, due to stiffness.

### **4. SLEEVEHEAD PAD**

- a. There is a 1 3/4" sleeve head pad composed of a 65/35 Poly/Cotton woven cover sewn into the armhole of the coat assembly.

- b. It is reinforced with soft white 100% Polyester needle punch filler.
- c. Strips of coat canvas are unacceptable for use as sleeve-head padding.

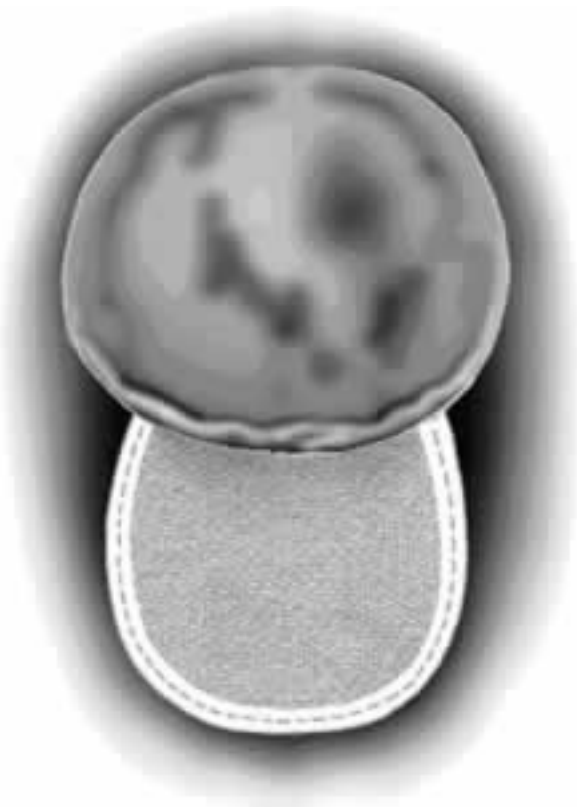
## 5. LINING

- a. Coat linings are to be cut from a separate set of patterns designed specifically to fit the particular style of coat. Linings are not to be cut from coat patterns and then cut down.
- b. Lining material is to be the highest quality BreatheFree Poly Twill. It contains moisture absorbing properties with immediate dry component. It will be non-toxic, perspiration resistant, color fast, and non-shrinkable. It is to be fully dry-cleanable.
- c. Its composition is to be 124 warp x 72 fill and it is to meet government specifications.
- d. There is a pleat down the center back in the shoulder area to allow fullness and access to buttons where applicable.
- e. The lining is COMPLETELY sewn around the armhole, NOT just tacked.

## 6. PERSPIRATION SHIELD

- a. The perspiration shield is secured in the lower part of the armhole and is approximately 4" square.
- b. It is made of an absorbent wool flannel, consisting of 85% wool and 15% nylon material. It is to be double sponged to prevent shrinkage.
- c. The shield is edged all around with a pre-shrunk bias poly/cotton finishing tape and completely sewn into the armhole area. Merely "tacking" the shield to the lining is not acceptable.
- d. Sweatshields will contain **Sanogiene Anti-Microbial Protection**.  
Sanogiene is an EPA approved patented technology providing the following properties: 1. Controls and resists odors 2. Retards the growth and action of bacterial odors 3. Mildew resistant 4. Prevents microbes from degrading uniform construction 5. Long-lasting in excess of one hundred launderings  
In addition, the staining, degradation and loss of the performance properties of textile fibers are often the result of microbial attack. Sanogiene finish protects the fabrics from microbial contamination and growth. Sanogiene is an EPA registered product and meets requirements for US anti-microbial registration.

e. Shields made of scraps from cutting the outer coat whipcord fabric are not acceptable.



## 7. POCKETS

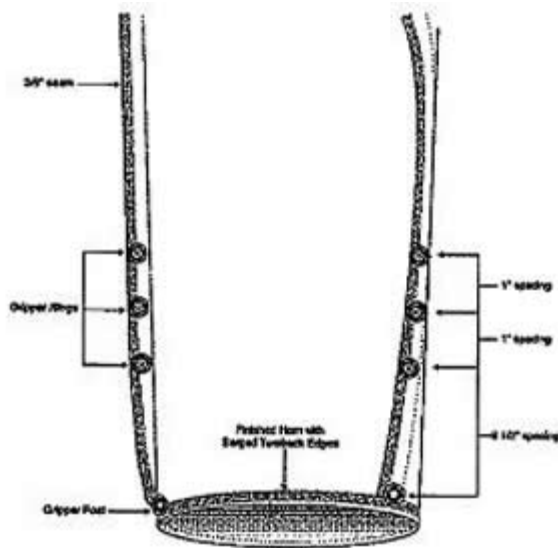
- a. All inside pockets are to be cut, sewn, and turned automatically with a double piped lock-stitch machine and reinforced with a non-woven fabric.
- b. Pockets are to be constructed with hidden inside bartacks with welts of the same outer fabric as the coat.
- c. There is a 1 1/2" whipcord fabric extension down into the pocket, from the opening edges.
- d. Pocketing material is to be 70/30 poly/cotton, 50/50 in the warp and 100% poly in the fill.
- e. Pocket is to be "bagged" with no open seams at the bottom.
- f. Pockets made of lining or lightweight material are not acceptable.

## 8. TAPING

- a. Seams which are subject to usual stress, are to be taped with a preshrunk cross-wound cotton tailoring tape.
- b. Areas to be taped are down the inside coat front, extending around bottom sides and back, and around the armhole. There must be a 3-4" area at the upper back shoulder area of each sleeve seam, where the cloth tape is omitted. This allows proper "Stretch" across the shoulders during arm lift maneuvers.

## 9. SLEEVES

- a. The sleeve is to be "felled" into the top of the armhole, using a special felling stitch which allows fullness, evenness, flexibility and strength.
- b. The bottom half of the armhole is machine lock-stitched to give the greatest strength in this high stress area.
- c. Sleeves are to be cut utilizing a 60/40 pattern per fine tailoring or 50/50 split sleeve upon request. They will be pitched forward 3-4 degrees in the armhole to allow for the arm-lift associated with playing a musical instrument.
- d. The cuff, or hem, is to have a generous 2 1/2" turn-under consisting of fabric and lining secured and constructed to allow easy altering of sleeve length. This is done utilizing an "easy alter" chain stitch.
- e. On request, an adjustable hem feature is available. The ridged/grooved polyester snap-tape shall extend from the bottom of the hem 7" with a total of 5 male snaps and 5 female snaps (10 total snaps) and will be centered on both seams. This allows a 1/2" of adjustability with each snap for a total adjustment capability of 4 1/2". The snap tape will be back-tacked on each end with a 3/8 – 1/2" tack.



Inside View of Sleeve with Adjustable Feature

## 10. SHOULDER LOOPS

- a. Shoulder loops are to be die-cut to insure uniformity and are cut in two pieces.
- b. Shoulder loops are to be reinforced on each layer with heavy Pellon.
- c. They are sewn together on the inside, turned, and top-stitched all around the edge for body and durability.
- d. All buttons for attachment of shoulder loop and accessory items will be reinforced with backing buttons.

## 11. TRIM

- a. Coat front trim (braid, welts, appliques, embroidery, etc.) is to be applied only through the outer fabric. That is, it is NOT to be sewn through the chest piece four layer innerlining, nor the polyester twill coat lining. All trim is to be sewn before the lining is joined to the coat.
- b. Any trim using 1/4" unfilled tubular braid is to be applied with a FB or FBN corn straight 2 needle machine, then it is applied in cloverleaves, turned edges or other circular designs. The benefits of such application provide that the trim (A) lays flat to the fabric surface, and that (B) the stitching is equidistant from each edge along the entire border of the trim. Using a single needle stitch sewn twice is not acceptable. Trim applied with only one single needle stitch in the center is not acceptable.

## 12. HARD COLLAR

- a. The inner core foundation of the standing collar is .014 Mylar.
- b. There is a laminated layer of non-woven Pellon P15 on the inboard side of the entire foundation.
- c. A stainless steel riveted hook and eye is to be the front closure. The hook and eye are riveted through the Mylar, Pellon and two layers of collar lining material. It is to be placed at the optimum angle to insure proper tension and comfort.
- d. A "sewn" hook and eye is not acceptable.
- e. The collar lining consists of two layers of Burlington Mills Cramerton fabric, which is 65% polyester and 35% combed cotton, pre-shrunk and non-wicking.
- f. Seven male gripper snaps are placed through both layers of the collar lining material. The snaps are supported on the inside by the laminated non-woven Pellon which also serves as a protective layer between the Mylar and the snaps. Female gripper snaps applied to the collar lining are unacceptable.
- g. The outboard side of the standing collar is to be covered with a whipcord fabric, as specified by the design specifications.
- h. The top edge of the Mylar base is bound with Cramerton fabric and has a finished welted seam on each side. The whipcord fabric is doubled over the top of Mylar base, along with the two layers of collar lining, and stitched along the top edge. This 5-layer construction results in a "beaded" edge and serves as a protection all along the top edge of the liner. This is accomplished with a SINGLE row of locked stitching through the Mylar base.
- i. A single layer of fusing tape or bridle-tape is not sufficient protection in this area and is not acceptable.
- j. The bottom edge of the standing collar is to be sewn through and through, to attach the double layers of Cramerton lining to the outer layer of whipcord. This row of stitching is immediately below the bottom edge of the Mylar foundation.
- k. Construction of the collar in this manner provides the most dimensionally stable garment, without the additional rows of needle holes.
- l. Braid trim, fabric welt, and embroidery are to be applied to the outer fabric



of collar before assembly. This prevents sewing the trim "through" the Mylar core with additional rows of needle holes.

### 13. COLLAR LINER

- a. The fabric used in the construction of the washable snap-in, replaceable liners is two layers of VISA treated polyester whipcord. The VISA treatment offers soil release properties in this washable part of the garment.
- b. The liner is to be die-cut in a curve to allow it to lie properly against the neck of the wearer.
- c. There are seven female gripper snaps evenly spaced and secured through both layers of liner fabric. These are to match up with male gripper snaps on collar lining.
- d. The top, bottom and rounded side edges of collar liner is to be bound with a finished binding of non-absorbent Cramerton fabric.
- e. There is to be a bartack at each end of the binding.
- f. The liner is to be positioned to extend 1/8" above the whipcord collar fabric.
- g. Each liner is to be sized to corresponding collar and numbered to match coat size.



## 14. SOFT COLLAR

- a. Soft collars, lapels, and outer pocket flaps are to be hand shaped and cut according to fine quality tailoring practices.
- b. Bridle tape is to be placed at the lapel roll, to retain smooth lines and afford a permanent shape.
- c. Under-collar felt is to be pre-biased 50% wool/50% Rayon composite.
- d. All edges are to be topstitched (with the exception of satin lapels) through and through, from the facing edge through coat front lapels and collar to the opposite edge. Topstitching is to be 1/8" from edge.

## 15. SEAMS

- a. Coat is to be completely machine stitched except in areas where specific tailoring requires other methods.
- b. The ends of all seams are to be backstitched not less than 1/4".
- c. Coat back is tailored with either a 2-piece back or 4-piece back, if needed, to facilitate insertion of contrasting color panels, trim, etc.

## 16. THREAD

- a. Threads for seaming are to be 50/3 cotton wrap core thread, 70/2 poly wrap core thread, or 100/2 poly wrap core thread based on the strength requirements of the type of seam.
- b. All threads are to be heat resistant, vat dyed, sun-fast, dry-cleanable and moisture proof.

## 17. BUTTONS/BUTTONHOLES

- a. High-quality metal buttons are to be used where specified and are to be attached by sewing, ring and washer, or toggle and washer.
- b. Buttonholes are to be manufactured using the cut-first method. The hole is to be cut-first, and the edge is to be covered with gimp and twist to cover the fabric and inner canvas edge. The back of the buttonhole is to be closed with a bartack reinforcement.

## 18. ZIPPERS

- a. Zipper is to be heavy-duty brass with an auto-locking pull-slide. Tape is to be 9/16".
- b. Zipper is to be bartacked top and bottom and sewn to facing surface, not sandwiched in between shell fabric and facing.

## 19. FUSING

- a. Certain trim designs call for added reinforcement. This is to be done with Thermal Bond non-woven polyamide 100% polyester 1.8oz/sq.yd fusible. It is to "tear away" from areas not covered with braid or other trim.
- b. Use of Pellon SF134 as reinforcement for trim is unacceptable.
- c. The entire coat front outer fabric is to be reinforced, in addition to the "traditional" sewn innerlining, whenever looped braid designs are specified.
- d. When sleeve cuff trim is utilized, the lower sleeve is to be reinforced from the cuff bottoms, up as needed.

## 20. WASHABLE OPTION

- a. Buyer may opt to change the coat specifications to be a washable item. The coat will have washable shoulder pads and will be fully lined. Front inner foundation, sleeve heads, and underarm shields may be omitted.

## 21. PRESSING

Garment pieces shall be pressed and shaped to insure proper style and permanency of dimensions. In addition a final steam pressing shall be done before shipping allowing a true ready to wear condition upon receipt by the customer.

# **BIBBER TROUSER SPECIFICATIONS**

## **1. PATTERNS**

- a. Bibber trousers are to be cut in a full-length pattern, allowing extra fullness at the waist area to accommodate a generous fit throughout the range of sizes.
- b. They are to utilize both MALE and FEMALE patterns.
- c. There are to be two darts in the seat and waist area, measuring approximately 10" on a 38R sample.

## **2. SHOULDER STRAPS**

- a. Bibber is to be adjustable at the shoulders by means of a one-piece molded indestructible polymer slider. No metal sliders will be accepted.
- b. Slider is to be permanently fixed to the double-ply shoulder straps.
- c. Straps are turned and finished with a lockstitch on each edge, set in 1/8".
- d. Width of shoulder strap is to measure no less than 1 1/2" and be a minimum of 14" in length for maximum adjustability.

## **3. INNERFACING**

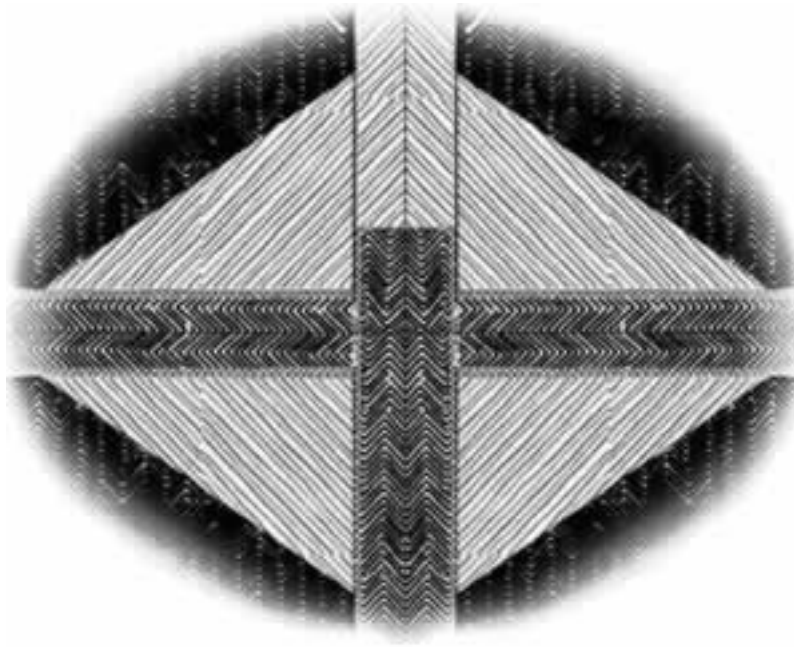
- a. The upper portion of the bibber is to have a generous innerfacing front and back with all exposed fabric edges tightly serged to prevent raveling.

## **4. FRONT CLOSURE**

- a. The inside of the right fly is to be lined with a layer of durable polyester cotton material. It is to extend beyond the four-way crotch assembly.
- b. The left fly is to be reinforced with Pellon SF134W to provide permanent shape retention and durability. It is to be bound with a preshrunk, bias cut, tape for appearance and durability.
- c. There are to be three bartacks at the base of the fly for additional reinforcement; two vertical bartacks on the lower front fly interior and one horizontal bartack at the bottom of the lower front fly exterior.
- d. The fly zipper is to be SOLID BRASS of Y.K.K. quality. There is to be a #3 hardened brass wire stop at the base of the zipper.
- e. The front fly is to be secured at the top of the waistband with two stainless gripper snaps; placed above the zipper terminal. "Hook flex" is also available, if requested.

## **5. CROTCH**

- a. There is to be a "four-way" crotch reinforcement consisting of 50/50% polyester-cotton pocketing cut on the bias for strength.
- b. There are to be four, two-ply sections, one on each side of the fly, seat seam and inseams.
- c. Crotch area is to be clean finished with no extra fabric extending from tops of inseams.
- d. Trousers having merely a two-way reinforcement or no reinforcement at all, are not acceptable.



## 6. LEGS

- a. Trousers legs are to be finished at the bottom with a 3" turn under to allow alteration for future growth.
- b. Legs are cut straight down from the knee, resulting in a circumference of 19" at the finished bottom edge (standard 38R size).
- c. The hem is to be taped all around with a pre-shrunk bias polycotton finishing tape, then blind stitched for appearance and ease of alterations. Taping all around provides a clean finished edge for full length use, as well as protecting the fabric edge completely. Simple flat taping with a rayon hem tape is unacceptable.
- d. Striping is centered over the outseam and NOT sewn into the seam. It is to run the full length of the leg, including the turn-up allowance at the bottom edge. It is to be finished "flat" at the cuff turn under edge, not folded

under the edge.

e. The outseam of each trouser leg is to be a triple safety serged seam, or "blue jean" stitch. This type of seam is much stronger than the traditional "busted" seam and adds strength and stability to the "stripe side" of the leg. Flat pressed or "busted" seams in this area are unacceptable.

f. The inseam of each leg is to be a flat pressed or "busted" seam whereby both ends of the fabric are lockstitched together and pressed back flat. This is necessary to facilitate alteration of the trouser within the seat and upper thigh area.

g. On request, an adjustable hem feature is available. The ridged/grooved polyester snap-tape shall extend from the bottom of the hem 12" with a total of 11 male snaps and 11 female snaps (22 total snaps) and will be centered on both inseam and outseam. This allows a ½" of adjustability with each snap for a total of 11" of adjustability. The snap tape will be back-tacked on each end with a 3/8 – 1/2" tack. Sideseams will be "clean finished".

## 7. SERGING

a. All edges of seams and outlets are to be serged in a professional, high quality manner, eliminating the possibility of raveling.

## 8. THREADS

a. Threads for seaming are to be 50/3 cotton wrap core, 70/2 poly wrap core, or 100/2 poly wrap core, based on the strength requirements of the type of seams.

## 9. POCKETS

a. FOB watch pockets, when specified, are to be the same precreased pocket and are to be bartacked at the two upper corners.

b. Pocketing material is to be 70/30 poly cotton; 50/50 in the warp and 100% poly in the fill.

c. Pockets constructed in a "sandwiched" or "bagged" fashion are unacceptable.

## HEADWEAR SPECIFICATIONS

### Shell 30 FLAT TOP

\* Fractional melt high-density polyethylene. Minimum normal wall thickness .050" \* Preformed plume socket hole, and plume socket anchor \*

Contoured top edge for a better shape and fit \* Blow molded for a consistent dimension

### Cover Side Bodies

\* One piece standard band fabrics \* Computer graded, marked and cut \* Double reinforced back seam from top to bottom .75" seam \* All seams single needle lock stitch (301 lock stitch) \* 0.011" Ht-38 monofilament and Tkt. 70 threads at 5-7 S.P.I. \* Sewn construction to attach outer cover to inner shell \* No brads or staples in shell to avoid cracking, sharp edges or wearers discomfort \* 1 piece #985 expanded support PVC marshmallow vinyl \* Computer graded, marked and cut \* Double reinforced back seam from top to bottom \* All seams single needle lock stitch (301 lock stitch) \* 0.011" Ht-38 monofilament and Tkt. 70 threads at 5-7 S.P.I. \* Sewn construction to attach outer cover to inner shell \* No brads or staples in shell to avoid cracking, sharp edges or wearers discomfort \* Fused for Embroidery decoration only #4310 Thermal bond Non-woven 100% polyester, 1.8oz/sq. yd., Polyamide Dot coating

### Cover Top

\* 1 piece standard band fabrics or #985 vinyl \* Computer graded, marked and cut \* All seams single needle lock stitch (301 lock stitch) \* 0.011" Ht.-38 monofilament thread 8-10 S.P.I.

### Top Band Straight

\* Band Fabric, strip cut to 1.75" to finish 1.125" \* .375" turn under on finished edge \* All seams single needle lock stitch (301 lock stitch) \* 0.011" Ht-38 monofilament or Tkt. 70 thread at 5-7 S.P.I. \* .75" back seam for added strength \* #985 expanded support PVC marshmallow vinyl \* Strip cut to 1.75" to finish 1.125" \* 0.011" Ht-38 monofilament or Tkt. 70 thread at 5-7 S.P.I. \* .75" back seam for added strength

### Top Band Inverted "V" and "Notch" Cut - Fabric

\* Band fabric, die cut for accurate and consistent shape \* All seams single needle lock stitch (301 lock stitch) \* 0.011" Ht-38 monofilament or Tkt. 70 thread

### Top Band Inverted "V" and "Notch" Cut - Vinyl

\* #985 expanded support PVC marshmallow vinyl \* Computer graded, marked and cut \* All seams single needle lock stitch (301 lock stitch) \* 0.011" Ht-38 monofilament or Tkt. 70 thread

### Cordedge

\* # 630 cord edge, 6.7 grams per yd., .25" 100% polyester apron, 100% Nylon covered, polyester braided inner core cord \* Sewn under the bottom edge of the top band and onto the side body fabric during the set top band operation. To finish between side and top band \* All seams single needle lock stitch (301 lock stitch) \* 0.011" Ht-38 monofilament or Tkt. 70 thread \* Included into the .75" back seam

### Bottom Band Straight

\* Band fabric, strip cut to 1.75" to finish 1" \* .375" turn under on both edges to finish 1" \* All seams single needle lock stitch (301 lock stitch) \* 0.011" Ht-38 monofilament or Tkt. 70 thread \* Attach bottom band to inner shell 5-7 S.P.I. \* Bottom band end tucked in and sewn across edge 3 times to prevent pulling out or fraying \* Finished edge turn under 8-10 S.P.I. \* Attach to inner shell at bottom to cover all attach visor stitching. Sweatband stitching and outer cover stitching \* #985 expanded support PVC marshmallow vinyl \* Strip cut to 1.75" to finish 1.125" \* .375" turn under on bottom edge \* All seam single needle lock stitch (301 lock stitch) \* 0.011" Ht-38 monofilament or Tkt. 70 thread \* Attach bottom band to inner shell 5-7 S.P.I. \* Finished edge turn under 8-10 S.P.I. \* Attach to inner shell at bottom to cover all attach visor stitching, sweatband stitching and outer cover stitching

### Cordedge

\* # 630 cord edge, 6.7 grams per yd., .25 " 100% polyester apron, 100% Nylon covered polyester braided core cord \* Sewn under the top edge of the bottom band and onto the side body during the set bottom band operation. To finish between side and bottom band \* All seams single needle lock stitch (301 lock stitch) \* 0.011" Ht-38 monofilament or Tkt. 70 thread

### Suspension Standard Vinyl Sweatband

\* One Piece #985 expanded support PVC marshmallow vinyl – white or black \* Computer graded, marked and cut \* Finished hat sizes: X-Small, thru X-Large \* Metal grommet reinforced, lace drawstring holes for long lasting wear ability Polypropylene tipped extra long 32" polyester .09375" round drawstrings, white/black depending on suspension vinyl color



## Standard Visors

\* High-density polyethylene, ultraviolet inhibitor, pigment stabilized color matched. Minimum normal wall thickness .060" \* White, navy, red, black, green and royal \* Sewn to the inner shell using single needle lock stitch (301 lock stitch) \* Tek 70 thread at 5-7 S.P.I.

## Fabric or Film Covered Visors

\* Band fabric \* 8 ga. 1% metallic polyester film, 99% PVC film vinyl, gold and silver \* Hi impact polystyrene base material \* Fabrics laminated to polystyrene using a water-tight bonding, high solids, fast setting, waterproof, non-wrinkling, multi-purpose spray on adhesive, used to bond cloth, Mylar and foil to plastic \* Dried under pressure for 24 hours before die cutting each visor to maintain the uniform shape and size of each one \* After cutting each visor is bound with a 8 ga. 1% metallic polyester film 99% PVC film vinyl edge guard in gold and silver \* Sewn with a single needle lock stitch (301 lock stitch) \* 0.011" Ht-38 monofilament thread at 5-7 S.P.I. \* Cut size 1.125" to finish as .5" binding

## Visor Trim

\* Visor is bound with a 8 ga. 1% metallic polyester film 99% PVC film vinyl edge guard in gold or silver \* Sewn with a single needle lock stitch (301 lock stitch) \* 0.011" Ht-38 monofilament thread at 5-7 S.P.I. \* Cut size 1.125" to finish as .5" binding

## Hardware Button

\* Two (2) \* Metal, lyre, or stipple 45 ligne, prong back shako button, nickel or gilt

## Front Chain

\* Soft aluminum, gold or silver plated .5" wide shako chain with lanyard spacers

## Chin Chain

\* 16" w/spacer soft aluminum, gold or silver shako chain \* 18" without spacer soft aluminum, gold or silver shako chain

## Chin Strap

\* .75"PVC vinyl die cut size with 12 holes punched for adjustments and buckle \* Black, Clear, Navy, and White \* .75" steel roller bar buckle, gold or silver attached to strap with a .1875" brass grommet

## Front Strap

\* REFLECTS Band \* High Density Polyethylene \* Vacuum metallized aluminum or gilt \* Clear top coat for protection and shine \* Pre formed holes for attaching to shell

#### Emblem

\* Hi impact polystyrene \* Vacuum metallized aluminum or gilt \* Clear top coat for protection and shine \* Two (2) .1875" molded back posts with metal snap fasteners for a secure attachment to the inner shell

#### Vent

\* .5" 7030 BRASS 6 slotted 3 prong vent positioned through a .4375" hole drilled in inner shell

#### Plume Socket

\* High density polyethylene, minimum normal wall thickness .040" \* 3.75" or 5.25" long x .625" wide attached with a .375 brass grommet and a steel washer to the inner shell

#### Hook

\* D175 brass small hook to hold chin strap \* 7030 brass large hook for plume

#### Plume

\* Feathers are by products of foreign and domestic production, vat dyed utilizing the latest technology in water and mineral based non-toxic dye products, wired mounted on a plume wire \* Silver or gold cup with shako wire mount \* Plastic plumes, high quality foil and Mylar composite, machine cut, water proof and wrinkle resistant

#### Standard Plastic-Pak

\* Molded, calcium filled polypropylene homopolymer, black minimum normal wall thickness .110" \* Two (2) molded replaceable latches, built in hand grip, continuous hinges, 6-added feet for stable standing recessed bottom for stable stacking, inter-locking top and bottom for secure closing. Extra roomy to accommodate all hats plus space for plume

#### Bag

\* Poly shako bag 10" x 8" x 24" x .001"

## **CERTIFICATION OF FABRIC**

**This is to confirm that bidder is to use first quality goods. The material supplied is to be 14 1/2 oz. whipcord, 100% Polyester.**

**All fabric is purchased directly from the mills, not purchased from jobbers or wholesalers. The manufacturing mill is to stand behind the durability of fabric per handling and care instructions included on care label sewn into each uniform.**

**UNIFORM MANAGEMENT SYSTEM PROGRAM** with the following features:

The system will be a cloud-based application which is accessible from any modern internet connected device: PC, Mac, Android Tablet or Phone, iPhone, iPad.

The system will manage student information regarding the assignment of band uniforms and is alterable on a continuing basis as sizing needs change.

The system will be capable of loading in the school's data directly from their uniform order.

The system will contain an AUTO-ASSIGN feature which automatically assigns uniform pieces to the students based on their entered measurements.

In addition, the student database will include (at user's discretion) full contact information for student and guardian and will possess the ability to generate address labels and garment bag identification tags.

The system will also produce (customizable) student uniform rental/usage agreements as per needed.

The system will have the ability to generate customizable reports.

The system will allow importing and exporting of student and uniform data.

The system will allow the creation and assignment of additional users to access the specified student and uniform information.

The system will facilitate backup and restore of the user's data as desired.

The system will be protected by a Web Application Firewall (WAF).

The system administrator must provide technical support FREE OF CHARGE.

### **COATS**

Fabric: RejuviTex – 100% Synthetic - 14 oz

Coat front of RejuviTex-Regal Purple with overlay of Optic White with dye sub print, line overlay with white stabil twill. Coat is tapered on the sides, and 3 inches shorter than normal on the sides. Overlay is offset and longer point to left side of center. Overlay to be dye subbed, starting with Optic White at the top (down to approximately the armhole area). Washable label. Large square shoulder pads. From black at the bottom, up through gray with the design. Set on the color split of the dye sub overlay, 3/4" welt of Gold Lahm across chest, to the edge of the overlay. Gold Lahm welt edged with 1/8" 7296 black braid on both sides. Upper right portion of the overlay is Optic White with a 3" "WCU" band logo on right chest area. Left side of coat has extreme bottom angle from left side seam to above the offset point. Set at the top portion of the overlay, to match up with the collar,

special curving and tapering to a point welt of Coal Black. Set on the curve of the welt, 1/8" OG001 gold metallic braid that will match up with the braid on the right side of the collar. Set on the coat front, (3) 24L Nickel Half Ball buttons in a vertical line starting at the top of the inside edge of the overlay. Special shaped shoulder caps in Coal Black.

Back – of RejuviTex-Coal Black. Concealed center back brass zipper with 3-snap closure.

Collar – Standing Hard Square Collar of RejuviTex-Coal Black – left side of collar has no trim and right side of collar is trimmed with row of 1/8" OG001 gold metallic braid across the top and down the front. Collar has SP4007 fusing.

Sh. Loops – of RejuviTex-Coal Black. Loops sewn down all around. Loops to close with 24/Nickel Half Ball buttons.

Sleeves – Left sleeve of RejuviTex-Coal Black and right sleeve of RejuviTex-Optic White. Zip-off sleeves with black zippers. Sleeves to have adjust-a-cuff feature. Sleeves are to be numbered. Loops in sleeves to hang on hanger.

## **BIB TROUSERS**

Bib Trousers of RejuviTex-Coal Black. Bib Trousers to have permacrease, four-way reinforced crotch, washable label, tapered legs, black elastic stirrups and adjust-a-cuff feature. Welted fob pocket. On left chest, 3" direct embroidered "WCU school logo" in 0260 purple, white and gold metallic.

## **HEADGEAR**

Flat Top, West Point Shako. Top, Sides and Both Bands of Black Vinyl. Nickel Half Ball side buttons. Black Visor. Black chinstrap with nickel buckle. Silver Flat Reflects Front Band. Velcro on front of shako for attaching ornament that school already has.

Each shako is individually boxed in a molded plastic carton made of high density polyethylene for maximum durability. Features include a comfort grip handle, interlocking/stackable design, feet for standing box upright, replaceable sure snap closure and maximized volume for packing headwear and plume.

## **PLUMES**

Plumes – 14" French Upright in White.

## **SHAKO WRAPS**

Special Shako Wrap lined with black indy. Wrap is to extend 3-1/2" above the shako at its highest points. Right side of RejuviTex-Optic White with the dye sub with the triangle shapes from the coat dye sub. The front of the hat wrap will have a "W" shape at top, right side of Optic White with dye sub print (triangle shapes) and the other side of RejuviTex-Regal Purple. The right side of the "W" is the tallest on the wrap. Middle point to have a special parallelogram mirror (2" to 2-1/2" tall overall) silver mirror (1/2" to 1" wide) on top and gold mirror (1/4" to 1/2" wide) on bottom set on black inlay (1/4" to 1/2" wide between the mirrors). Left side of RejuviTex-Regal Purple. Attached to the bottom left side, small 1 inch gold cat head, L903-10 Duets in Bright old gold and black, that will velcro on to the hat wrap. Back of shako wrap is black lycra.

## **GAUNTLETS**

Gauntlets of RejuviTex-Optic White, self-lined, fused with SP4007. Gauntlets trimmed with 1" Regal Purple welt on top of gauntlet. On top edge of gauntlet, row of OG001 gold metallic braid with (1) 30L Nickel Half Ball button on outside edge of regal purple stripe.

## **DRUM MAJOR UNIFORMS**

Complete Drum Major Uniform (consisting of Coat, Bib Trouser, Shako, Shako Carton, Plume, and Gauntlet) – to be similar to Band in reverse colors.

## **DRUM MAJOR COATS**

Fabric: RejuviTex – 100% Synthetic - 14 oz

Seamless canopy, Wide shoulder coat. Fully Lined Jacket with fused front. Jacket front to be lined with black stabil twill for reinforcement and rest of coat with black coat lining. Coat to have perspiration shields and foam shoulder pads. Coat is cut 2" shorter at the side seams and taper the sides. Single point at center front. Coat front, side bodies and seamless canopies in RejuviTex-Coal Black. Set to start on right side of coat, applique of Gold Lahm cut in the shape of a lightning bolt, that is permanently sewn in at the right shoulder seam and will come to a point at left bottom coat near side body. Applique Gold Lahm lightning bolt to have matching gold metallic satin stitch outline down both sides into the point at bottom. Set evenly spaced, (4) 30L Gilt Half Ball buttons, set mirroring diagonal lightning bolt towards center of coat, attached with disc and rings.

Back – of RejuviTex-Coal Black. Concealed center back brass zipper with 3-snap closure. Cut straight across bottom.

Collar – Standing Hard Square Collar of RejuviTex-Coal Black with black collar liner and liner snaps and line inside of collar with black fabric.

Shoulders - Set in a straight line on the left shoulder only, 5/8" tall direct embroidered plain block letters "LHS" in Gold Metallic, evenly spaced and straight.

Sleeves – of RejuviTex-Coal Black. At the end of the sleeve are (3) 30L Gilt Half Ball buttons starting from sleeve end, evenly spaced up at outside edge. Sleeves to have adjust-a-cuffs with snaps.

## **DRUM MAJOR BIB TROUSERS**

Bib Trousers of RejuviTex-Coal Black. Bib Trousers to have permcrease, four-way reinforced crotch, right outside inserted breast pocket and adjust-a-cuff feature.

### **DRUM MAJOR HEADGEAR**

Flat Top, West Point Shako. Top, Sides and Bottom Band of RejuviTex-Coal Black. Gilt Half Ball side buttons. Black Visor. Clear chinstrap with gilt buckle. Gilt Front Strap. Sides of hat - set to start from right side of hat ending left of center is Gold Lahm wedge shaped welt. Top of Gold Lahm welt to be 1-3/4" wide ending at point slight left of center (similar to lightning bolt point on coat front). Gold Lahm welt to be outlined with matching gold metallic satin stitch edge.

Each shako is individually boxed in a molded plastic carton made of high density polyethylene for maximum durability. Features include a comfort grip handle, interlocking/stackable design, feet for standing box upright, replaceable sure snap closure and maximized volume for packing headwear and plume.

### **DRUM MAJOR PLUMES**

Plumes – 14" French Upright in Black.

**Dose your bid meet all the requirements listed above?**

**YES** \_\_\_\_\_

**NO** \_\_\_\_\_

**Signature:** \_\_\_\_\_





**Western Carolina University  
Cullowhee, NC**

**BID FORM**

The bidder certified he has familiarized himself with your specifications, has carefully read them and understands their contents. Any uniforms furnished by us will be in the style and quality requested.

<u>QUANTITY</u>	<u>ITEM</u>	<u>UNIT PRICE</u>	<u>TOTAL PRICE</u>
450	Coats - Band		
460	Bib Trousers - Band		
450	Gauntlets - Band		
450	Shakos - Band		
450	Shako Cartons - Band		
450	Shako Wraps - Band		
450	Plumes - Band		
10	Coats - Drum Major		
10	Bib Trousers - Drum Major		
10	Gauntlets - Drum Major		
10	Shakos - Drum Major		
10	Shako Cartons - Drum Major		
10	Plumes - Drum Major		
460	Hangers		
1	Dozen - 36L Nickel Half Ball Buttons		
1	Uniform Management Software Program		
	<b>BID TOTAL</b>		

**Payment Terms:**

Sample uniform is to be in accordance to the exact specifications. If awarded the contract, the undersigned agrees to ship the entire order within \_\_\_\_ calendar days after approval of sample and receipt of necessary details and all measurements.

**Company:** \_\_\_\_\_

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Phone: \_\_\_\_\_

Date: \_\_\_\_\_