

TENNESSEE WILDLIFE RESOURCES AGENCY (“TWRA”) UNIFORM SPECIFICATIONS

TWRA is seeking a three-year contract for the purchase of uniforms with services provided by the Respondent for embroidery, alternations and patchwork. The work completed shall follow the guidelines specified in the products’ specifications. All manufacturers and models shall be mandatory items and Respondent shall be able to provide all items requested.

Scope: The scope of this Contract is inclusive of uniforms deemed necessary by the State and its requirements. The State shall add or remove line items after the signing of the Contract through Memorandum of Understanding “MOU” process per Terms and Conditions Section 1.104. Substitutions may be added if deemed necessary by the State.

The Contractor shall have an alterations facility within 50 miles of TWRA HQ, 5107 Edmondson Pike, Nashville, TN 37211 to ensure quicker turnaround times on alterations and limits cost of shipping and handling.

The State’s main uniform order is completed in the spring. Supplemental orders may be placed during the rest of the year as deemed necessary by the State. There shall be no minimum or maximum order requirement.

Orders over \$1,000 will be submitted and paid by purchase orders. Orders \$1,000 or less may be submitted by phone and may be paid by payment card.

The Contractor shall provide invoices containing the following information.

- Contractor’s company name and mailing address (this must be the same address that they have provided when bidding.)
- Invoice number
- Invoice date
- Contract Line-Item identification number and description that corresponds to the ordered uniform item
- The number of items order per line and price per unit
- Total per line and for the invoice
- Name and address as to where order was shipped

Samples – Bidders may contact Alex Batta at 615-781-6566 or Alex.K.Batta@tn.gov to obtain samples.

GENERAL REQUIREMENTS

- Seconds shall not be acceptable. All uniform items supplied shall be first quality.
- Mandatory Manufacturers. Bidders shall provide the items
 - 5.11
 - A4
 - Badger Sport
 - Berne
 - Blackinton
 - Blauer

- Boston Leather
 - Carhartt
 - Columbia
 - Devon & Jones
 - Dickies
 - Dorfman Pacific
 - Drake
 - Dutyman
 - Elbeco
 - Firstwatch
 - Flying Cross
 - Gemplers
 - Hanes
 - Nike
 - Otto
 - Outdoor Cap
 - Port Authority
 - Propper
 - Reeves
 - S. Broome
 - Southeastern
 - Spiewak
 - Sport-Tek
 - Walls
- Sizes shall be available for men sizes S - 6X or 30-60 and women sizes XS - 5X or 2-24. When applicable, lengths of short, regular, or tall be specified at time of order for the size ordered. No sizes be ordered that are not published as available by the manufacturer.
 - Hemming shall be available and be specified at time of order.
 - Thread color of hem shall match color of garment.
 - Unit of Measure "EA" shall equal to one article of clothing. Note: "EA" for gloves shall equal a pair of gloves
 - Cost of the embroidering emblems, names, and positions as well as attaching emblems, badges, names, or positions shall be included in the price bid for the shirt.
 - Patches and badges will be furnished by TWRA.
 - Contractor shall place the patches and badges on shirts, vests, jackets, and caps as stated in specifications below.
 - When attaching the patches, badges, emblems, positions, thread color shall match the color of the item being attached.
 - Large TWRA patch is 3 ½" wide.
 - Small TWRA patch is 3" wide.
 - Embroidery color specified in clothing description.
 - See Appendix for embroidery specifications.
 - Three embroidery colors: Deep Green 5584, Pearl Grey 5640, and Black 5596.
 - Two styles: one with the word "Commissioner" embroidered below emblem and one without. 90% of orders will be without the word "Commissioner."
 - Colors are designated as part of each uniform's specification.

SHIPPING

Contractor shall be required to package and clearly label each shipment separately by employee name. The employee's name will be provided with each order placed. The contractor shall also enclose a packing slip with each shipment that references the employee's name. Finished shirts shall be pressed, folded, and packaged in poly bags.

Delivery terms-The Tennessee Wildlife Resources Agency (TWRA) does not have warehousing facilities for uniforms. Contractor shall attach emblems (or complete embroidery) and deliver all items ordered within 45 days after receipt of a purchase order. Contractors shall be expected to stock uniforms, or have access to stock, to complete orders within the specified delivery terms.

Contractor shall ship all uniform items FOB Destination to one of the delivery addresses listed below. Delivery location will be identified with each purchase order issued.

Ship to Addresses: TWRA, Region 1
200 Lowell Thomas Dr
Jackson, TN 38301
Phone- 731/423-5725
Contact: Uniform Coordinator

TWRA, Region 2
Ellington Agricultural Center
5105 Edmondson Pike
Nashville, TN 37211
Phone- 615/781-6622
Contact: Uniform Coordinator

TWRA, Region 3
464 Industrial Blvd
Crossville, TN 38555
Phone- 931/484-9571
Contact: Uniform Coordinator

TWRA, Region 4
3030 Wildlife Way
Morristown, TN 37814
Phone- 423/587-7037
Contact: Uniform Coordinator

TWRA, Region 5
Ellington Agricultural Center
5107 Edmondson Pike
Nashville, TN 37211
Phone- 615/781-6566

Contact: Uniform Coordinator

PRODUCT SPECIFICATIONS

NOTE: The following items/descriptions are all the items that TWRA offers to its staff. Not all items may be ordered within a given year but shall be available if a staff chooses it.

Uniform Nameplate

1000197989 – Silver or Gold

Mandatory Manufacturer and Model
Reeves, N8LE

Size: 9/16" x 2 7/16"

Plating: Gold or Silver

Brushed Finish

Letter Color: Black enamel filled

Fasteners: Dual Grip Clutches

Lettering shall be sunken, including first and last name and title. Type of finish, name, and title specified at time of order.

Uniform Badge

1000197988 – One size and style for all

Mandatory Manufacturer and Model
Blackinton, B523

Seal: State of Tennessee, plain with black rim

Plating: Gold or Rhodium

Letters: Block, Enamel-regular

Closure: Wallet or Safety Catch

Type of finish specified at time of order.

Belt, Garrison, Plain, Brown

1000197896 – Size 26-44"

1000197897 – Size 46-54"

1000197898 – Size 56-64"

Mandatory Manufacturer and Model
Buckle - Dutyman, 1512
Belt - Boston Leather, 6582

Garrison Style – Plain
Color: Brown
Width – 1 ½ “
Leather Weight - Minimum of 8-9 oz.
Full Grain Leather
Buckle – Chrome or polished metal finish

Sizes – 26” to 64”. Lengths to be specified at time of order.

Belt, Garrison, Basketweave, Black

1000197893 – Size 26-44”
1000197894 – Size 46-54”
1000197895 – Size 56-64”

Mandatory Manufacturer and Model
Buckle - Dutyman, 1521T
Belt - Boston Leather, 6582

Garrison Style – Basketweave
Color: Black
Width – 1 ½ “
Leather Weight - Minimum of 10-11 oz.
Full Grain Leather
Buckle – Chrome or polished metal finish

Sizes – 26” to 64” Lengths to be specified at time of order.

Hat, Knit, Skull Cap, Black

1000197933 - S/M, Regular
1000197932 - L/XL, Oversize

Mandatory Manufacturer and Model
Blauer, 160

Skull cap style
Color: black
Fabric: 2 layers of 57% polyester, 28% worsted wool, and 15% low pill acrylic
Rib knit
Color matched lycra headband

Moisture wicking, breathable
Wind resistant

Size: S/M & L/XL

“TWRA” embroidered in gold stitching, 1 1/2” capital letters, on left side of hat.

Hat, Boating, Wide-brim, Summer Weight

1000197939 - S-XL
1000197938 - 2X-3X

Mandatory Manufacturer and Model
Dorfman Pacific, 864M-KAKI6

Wide-brimmed boating hat
Color: Khaki or Stone
75/25 poly/nylon ripstop fabric
UPF 30-50+
Adjustable draw cord
Mesh sides of the crown in same color as the brim
Structured fit

Size: S-3X. Sizes to be specified at time of order.

CAP, BASEBALL, BLAZE ORANGE, WINTER, ONE SIZE FITS ALL

1000197931 – One size fits all

Mandatory Manufacturer and Model
Otto, 114-813

6-panel, structured, baseball cap
Color: Blaze Orange
Material: 100% polyester
Lightweight, durable ripstop fabric
No mesh, solid construction
Fully adjustable back strap using either hook-and-loop or Velcro
Integrated crown eyelets for ventilation
Firm, seamed front panel with full buckram
Pre-curve visor
Gray under visor

Small TWRA patch will be sewn by the contractor, centered on front of cap.

CAP, SUMMER, ONE SIZE FITS ALL

1000197934 – One size fits all

Mandatory Manufacturer and Model
Outdoor Cap, CMB100

6-panel, structured, baseball cap
Front color: Olive, Olive Drab, or TDU Green
Back color: olive or olive drab, tan, sandstone, or khaki
Fabric: Front - 87% polyester / 13% spandex Mesh – 100% polyester
Mesh sides and back
Integrated crown eyelets for ventilation
Pre-curve visor
Fully adjustable hook-and-loop rear strap

Small TWRA patch shall be sewn by the contractor, centered on front of cap.

CAP, GREEN BASEBALL, ONE SIZE FITS ALL

1000197935 – One size fits all

Mandatory Manufacturer and Model
Otto, 18-692

6-panel, structured, baseball cap
Solid color throughout: Olive, Olive Drab, or TDU Green
Fabric: 100% cotton
No mesh, solid construction
Fully adjustable hook-and-loop rear strap
Integrated crown eyelets for ventilation
Pre-curve visor

Small TWRA patch shall be sewn by the contractor, centered on front of cap.

CAP, LAW ENFORCEMENT, ONE SIZE FITS ALL

1000197937 - Silver
1000197936 - Gold

Mandatory Manufacturer and Model
Propper, F5592

6-panel, structured, baseball cap
Solid color throughout: Olive, Olive Drab, or TDU Green
Material: 6.5 oz, 65% polyester, 32% cotton, 3% spandex ripstop
Firm, seamed front panel with full buckram

6 rows stitching on visor
Pre-curve visor
Olive, Olive drab, TDU green matching sweatband
Fully adjustable rear strap, hook and loop
6 Integrated crown eyelets for ventilation
Lightweight, durable ripstop fabric

On Front of Cap: Class A Badge emblem shall be sewn on by the contractor, centered on front of cap. Emblem will be 1 ½" high. In ¼" capital letters, "WILDLIFE OFFICER" embroidered in arching over the badge. In ¼" capital letters, "Tennessee" embroidered flat underneath badge. Embroidering color specified at time of order based on the following below.

- Silver Badge emblems for Wildlife Officers, Manager 1, & Manager 2.
- Gold Badge Emblems for Sergeants, Lieutenants, Captains, Majors, Lt. Colonels, Colonels, and Manager 3, and Manager 4.

On Back of Cap: Embroidery, centered above adjustable back strap, in matching gold or silver color specified at time of order.

- Flat, Line 1: in ¼" capital letters, "TWRA".
- Curved, Line 2: ¼" upper- and lower-case letters "Law Enforcement".

Gloves, Insulated, Waterproof, Camouflaged

1000197980 - Sizes: S-XL

Mandatory Manufacturer and Model
Drake Waterfowl, DW4502

Color: Camouflaged
Waterproof, breathable Gore-Tex
Minimum 200 gram poly-fill insulation on back of hand
Minimum 140 gram poly-fill insulation on palm of hand
Nylon shells
Goatskin leather or synthetic textured AWG palms
Adjustable wrist straps

Sizes: S-XL Sizes to be specified at time of order.

Note: "EA" for gloves shall equal a pair of gloves

Gloves, Tactical, Black, Lightweight

1000197981- Sizes: S-2X

Mandatory Manufacturer and Model
5.11 Tac A3, 59374

Color: Black

Fabric – Nylon or spandex
Palm – synthetic leather
Knuckles – synthetic leather or padded neoprene
Velcro wrist closure

Sizes – S-2XL Sizes to be specified at time of order.

Note: “EA” for gloves shall equal a pair of gloves

Parka or Wader Coat, 4 in 1 or 3 in 1, Camouflage

1000197963 – Sizes S-XL
1000197962 – Sizes 2X-3X

Mandatory Manufacturer and Model
Drake Waterfowl, LST 3 in 1 Wader Coat 2.0, DW1000

Shell Color: Camouflage
Shell Fabric – durable, waterproof, breathable
Hood – Detachable, adjustable
Cuffs – Adjustable; Neoprene or Watertight Laminated
Hand warmer pockets
Liner Fabric – 100% Polyester Oxford Tricot or Polyester Fleece Camo and Brown Polyester Taffeta
Reversible Liner – Camouflage and Solid Brown
Liner Insulation – Minimum of 100 grams in the Body and 80 grams in the sleeves

Sizes – S - 3XL Sizes specified at time of order.

Coat shall be compatible with, and the same brand as, the insulated bib.

Large TWRA patches shall be sewn, centered, on the outer pocket flap of the cargo pocket of the shell.

Large TWRA patch shall be sewn on each sleeve of the solid brown side of the liner, by contractor.
TWRA patches shall be sewn two (2) inches below the shoulder seam on both the left and right sleeve.

Bib Overall, 4 in 1 or 3 in 1 Compatible, Insulated, Camouflage

1000197941 – Sizes S-XL
1000197940 – Sizes 2X-5X

Mandatory Manufacturer and Model Drake Waterfowl LST Insulated Bib 2.0, DW1122

Insulated bib shall be compatible with, and the same brand as Parka or Wader Coat, 3 in 1, Camouflage.
Color: Camouflage

Shell Fabric – durable, waterproof, breathable
Insulation – Minimum of 100 grams
Reinforced knees, seat, and ankle cuffs
Full length side zippers
Knees – Pleated Expandable or Articulated
Shoulder Straps – Elasticized or Nylon Webbing attached to elasticized fabric

Sizes – S – 5XL Sizes specified at time of order.

COAT, FLOTATION

1000197949 - Sizes S-XL (Regular)
1000197950 - Sizes 2X (Regular)

Mandatory Manufacturer and Model
First Watch, AB-1100

Color: Forest Green
Style: Pro Bomber Jacket
USCG Type III approved
100% polyester
200g insulation in torso & 150g in the sleeves
Waterproof, windproof, breathable
SOLAS tape for visibility
Shell: zip out liner, removable hood, 2 cargo pockets and snap down flaps, 1 zip chest pocket, 2 hand warming pockets with fleece lining, cinch waist, full zip front with storm flap, reinforced elbows and cuffs, articulated arm design for full range of motion
Liner: 2 hand warming pockets with fleece lining, cinch waist, full-zip front, quilted lining

Sizes: Men's S-2X Sizes specified at time of order.

No patches are needed for this item.

Jacket, Cruiser, Green

1000197957 – Sizes S-XL (Regular)
1000197954 - Sizes 2X-5X (Regular)
1000197956 - Sizes M-XL (Tall)
1000197955 - Sizes 2X-5X (Tall)

Mandatory Manufacturer and Model
Spiewak, Weather Tech Systems AirFlow Duty Jacket, SH3466

Color: Police Green or Olive Drab Green
Shell Fabric – Tactel Nylon Shell, or 3 Layer Nylon Ripstop

Lining – heavy duty like WeatherTech, Waterproof, Breathable, or PU Waterproof Breathable Membrane

Seams – Sealed with waterproof seam sealing tape

Three (3) piece hood, with draw-cord and cord lock; drop in hood with extended front bill, or detachable hood with front visor detail

Epaulets – 2” wide on each shoulder

Side openings with zipper closures to allow access to equipment

All pockets listed as standard by the manufacturer. Pockets shall close with either snaps or zippers

Mic tab(s); under each epaulet and snapped to shoulder seam or centered on top stormfly

Badge tab: sewn on to body, or swift tacked into the hand warmer pocket

Sizes – Regular S-5X, Tall M-5X. Lengths of regular or tall specified at time of order.

Large TWRA patches shall be sewn 1 1/2 inches below the shoulder seam on both the left and right sleeve.

Jacket, Soft Shell, Green

1000197961 - Sizes S-XL (Regular)

1000197958 - Sizes 2X-5X (Regular)

1000197960 - Sizes M-XL (Tall)

1000197959 - Sizes 2X-5X (Tall)

Mandatory Manufacturer and Model

Spiewak, Performance Soft Shell Jacket, S318Z

Color: Olive Drab Green

Shell – Water resistant, wind resistant, and breathable fabric - 80% polyester/20% polyurethane with fleece inner face, or 88% nylon/12% spandex with fleece laminated to inside

Zippers-Front zipper closure to top of collar. Side zips that work in conjunction with the side zips on outer shell, to allow access to equipment

The soft-shell jacket supplied shall be compatible with, and the same brand as, the Cruiser Jacket supplied for Item ID's 1000197954, 1000197955, 1000197956, and 1000197957. In addition, the softshell jacket supplied shall offer the following options:

- a. Use as a standalone jacket
- b. Use as a zip in lining for the cruiser jacket supplied for the item ID's listed above.

Sizes – Regular S-5X, Tall M-5X. Lengths of regular or tall will be specified at time of order.

Large TWRA patches shall be sewn 1 1/2 inches below the shoulder seam on both the left and right sleeve.

Coat, Windproof, Layering

1000197946 - Sizes S-XL (Regular)

1000197945 - Sizes 2X-5X (Regular)
1000197948 - Sizes M-XL (Tall)
1000197947 - Sizes 2X-5X (Tall)

Mandatory Manufacturer and Model
Spiewak, S327

Color: Black
100% Polyester Fleece
Windproof Lining
Water-resistant outer fabric
Stand-up Collar
Vertical Zippered Chest Pocket
Lower Zippered Pockets
Magna attach Chest Pocket

Sizes S-5XL Sizes specified at time of order.

Large TWRA patches shall be sewn 1 1/2 inches below the shoulder seam on both the left and right sleeve.

Jacket, Soft Shell, Women's

1000199471 - Sizes XS-XL
1000199472 - Sizes 2X-3X
1000199473 – Sizes 4X

Mandatory Manufacturer and Model
Port Authority, L317

Color: Black
100% Polyester Fleece
100% polyester woven shell bonded to a water-resistant film insert
100% polyester microfleece lining
92/8 poly/spandex woven shell bonded to a water-resistant film insert and a 100% polyester
1000MM fabric waterproof rating
1000G/M2 fabric breathability rating
Zip-through cadet collar with chin guard
Reverse coil zippers
Front zippered pockets
Open cuffs and hem

Sizes XS-4X Sizes to be specified at time of order.

Large TWRA patches shall be sewn 1 1/2 inches below the shoulder seam on both the left and right sleeve.

Jacket, Cotton Duck, Quilt Lined, Brown, with Hood

1000197951 - Sizes S-2X (Regular, Tall)
1000197952 - Sizes 3X-4X (Regular, Tall)
1000197953 - Sizes 5X-6X (Regular, Tall)

Mandatory Manufacturer and Model
Berne, HJ51BD

Color: Duck Brown
Water repellent
Minimum 10-ounce 100% cotton duck shell
Polyester insulation lining
Heavy weight quilt-lined brushed tricot
Triple-needle stitched main seams
Rib knit cuffs and waistband
Lined hood
Two lined front hand warmer patch pockets
Three inside chest pockets
Pleated elbows and action back

Sizes: S-6X. Length regular or tall will be specified at time of order.

Large TWRA patches shall be sewn 1 1/2 inches below the shoulder seam on both the left and right sleeve.

Jacket, Cotton Duck, Quilt Lined, Brown, No Hood

1000197942 - Sizes S-2X (Regular, Tall)
1000197943 - Sizes 3X-4X (Regular, Tall)
1000197944 - Sizes 5X-6X (Regular, Tall)

Mandatory Manufacturer and Model
Berne, CH416BD

Color: Duck Brown
Water repellent
Minimum 12-ounce 100% cotton duck shell
Polyester insulation lining
Rib knit cuffs and waistband
Lined hood
Two lined front hand warmer patch pockets

Sizes: S-6X. Length regular or tall will be specified at time of order.

TWRA patches shall be sewn two (2) inches below the shoulder seam on both the left and right sleeve.

Bib Overall, Cotton Duck, Quilt Lined, Zipper to Waist, Brown

1000197967 - Sizes S-2X, Length-Short, Regular, Long
1000197968 - Sizes 3X-4X, Length-Short, Regular, Long
1000197969 - Sizes 5X-6X, Length-Short, Regular, Long

Mandatory Manufacturer and Model
Berne, B415BD

Color: Duck Brown
High back design
Water repellent
Minimum 10-ounce 100% cotton duck
Medium-weight quilt lined 100% nylon taffeta
Nylon Quilted Polyester Lining
Front zip to waist
Knee to hip leg zipper
Reinforced double knees
Suspender straps
Triple stitched seams
Zippered hip pocket
Double inside chest pocket

Sizes: S-6X. Sizes and lengths will be specified at time of order.

Bib Overall, Cotton Duck, Unlined, Brown

1000197970 - Waist-Size 32-42" Length-28-36"
1000197971 - Waist-Size 44-56" Length-28-34"
1000197972 - Waist-Size 48-50, Length- 32-34"
1000197973 - Waist-Size 52-60, Length-32"

Mandatory Manufacturer and Model
Berne, B1067BD

Color: Duck Brown
Water resistant
10-ounce 100% cotton duck
Suspender straps
Reinforced back pockets
Triple stitched seams
Front zip to waist
Multiple bib pockets
Hammer loop

Sizes 32-60 waist, 28-36 length. Sizes and lengths will be specified at time of order.

Coveralls, Cotton Duck, Quilt Lined, Brown

1000197974 - Sizes S-2X, Length-Short, Regular, Long
1000197975 - Sizes 3X-4X, Length-Short, Regular, Long
1000197976 - Sizes 5X-6X, Length-Short, Regular, Long

Mandatory Manufacturer and Model
Berne, I417BD

Color: Duck Brown
Minimum 10 Ounce Weight 100%-cotton duck
Either quilt lined or insulated is acceptable
Water repellent
Corduroy top collar with snaps under collar
Snap closure at neck opening
Ankle to hip (waist) leg zipper
Triple needle stitching
Bi-swing action back
Knit storm cuffs
Reinforced double knees
Two reinforced hip pockets
Three inside chest pockets

Sizes: S-6X. Sizes and lengths will be specified at time of order.

Large TWRA patches shall be sewn 1 1/2 inches below the shoulder seam on both the left and right sleeve.

Vest, Fleece, Olive

1000197966 - Sizes S-XL (Regular)
1000197964 - Sizes 2X-3X (Regular)
1000197965 - Sizes 4X-6X (Regular)

Mandatory Manufacturer and Model
Drake Waterfowl, DW160160

Color: Moss
MST Solid Windproof Layering Vest
100% Polyester Fleece
Windproof Lining
Water-resistant outer fabric
Stand-up Collar
Vertical Zippered Chest Pocket

Lower Zippered Pockets

Sizes S-6X Sizes specified at time of order.

Small TWRA emblem shall be embroidered on the left chest of the shirt. There are two (2) variations of the emblem: one with the word "COMMISSIONER" centered under the emblem, and the other as the emblem only. Ninety percent of the orders will have the emblem only.

- Small TWRA emblem shall be embroidered in solid black thread.

Vest, Blaze Orange

1000197991 - Sizes S-XL

1000197990 - Sizes 2X-3XL

Mandatory Manufacturer and Model
Walls, 38000

Color: Blaze Orange

Polyester or polyester shell

Front Zip with two (2) front pockets

High visibility, easy to see

Sizes: S-3XL Sizes specified at time of order

No patches are needed for this item.

Vest, Hi-Viz, Public Safety

1000198281 - Size S/M

1000198282 - Size L-2X

1000198283 - Size 3X/4X

1000198284 - Size 5X/6X

Mandatory Manufacturer and Model
Spiewak, S912 062

Color: Hi-Viz, yellow/black

ANSI 107-2020 Type P Class 2

Open mesh knit fabric

5-point breakaway

Hook and loop closure with adjustable sides allows for 26" of size adjustment

Two (2) outside pen pockets

Complies with FHWA required Rule 23 CFR Part 634 of the Federal Registry

Sizes: S-6X Sizes specified at time of order.

No patches are needed for this item.

“TWRA” in 1 ½ inch black letters shall be centered on front and back of vest. Letters shall run horizontally on silver banding on the bottom of the vest.

Shirt, Short Sleeve, Hi-Viz, Public Safety

1000198285 - Sizes S-XL, men's
1000198286 - Size 2X, men's
1000198287 - Size 3X, men's
1000198288 – Size 4X, men's
1000198289 – Size XS-XL, women's
1000198290 – 2X, women's

Mandatory Manufacturer and Model

A4, N3142, men's
A4, NW3201, women's

Color: Hi-Viz, Safety Yellow

Short Sleeve

4 oz., micro poly interlock

Moisture wicking

Ultra-tight knit

Stain release

Odor resistant

Fade and snag resistant

44+UPF

Reinforced shoulder seams

Double needle cover stitch hem

Tagless

Sizes: S–4X Sizes specified at time of order.

Small TWRA logo shall be embroidered in black thread on the left side of chest.

Shirt, Long Sleeve, Hi-Viz, Public Safety

1000198291 - Sizes S-XL, men's
1000198292 - Size 2X, men's
1000198293 - Size 3X, men's
1000198294 – Size 4X, men's
1000198295 – Size XS-XL, women's
1000198296 – 2X, women's

Mandatory Manufacturer and Model

A4, N3165, men's

A4, NW3002, women's

Color: Hi-Viz, Safety Yellow

Long Sleeve

4 oz., micro poly interlock

Moisture wicking

Ultra-tight knit

Stain release

Odor resistant

Fade and snag resistant

44+UPF

Reinforced shoulder seams

Double needle cover stitch hem

Tagless

Sizes: S-4X Sizes specified at time of order.

Small TWRA logo shall be embroidered in black thread on the left chest of the shirt.

PANTS, RAIN, BLACK

1000197995 – Men's, Size S-XL (Regular)

1000197992 – Men's, Size 2X-5X (Regular)

1000197994 – Men's, Size M-XL (Tall)

1000197993 – Men's, Size 2X-5X (Tall)

Mandatory Manufacturer and Model

Spiewak, S1785

Color: Black

Waterproof, windproof, breathable

Fully sealed seams

Zippered side vents at ankles with snap-flap closure allow pants to pulled easily over boots

Grip waistband

Elastic drawstring at waist

2 zippered cargo pockets with snap-flap closures and 2 exterior pockets for equipment

Hook and loop secured belt loops

Articulated knee for freedom of movement

Lining: 100% nylon taffeta

Shell: 100% nylon water shielding

Sizes: S-5X, Regular and Tall Sizes specified at time of order.

JACKET / PARKA, RAIN, BLACK

1000197999 – Men's, Size S-XL (Regular)

1000197997 – Men's, Size 2X-5X (Regular)
1000197998 – Men's, Size M-XL (Tall)
1000197996 – Men's, Size 2X-5X (Tall)

Mandatory Manufacturer and Model
Spiewak, S1780

Color: Black
Lining: 100% nylon taffeta
Shell: 100% nylon water shielding
Waterproof, windproof, breathable
Can be separated into 2 separate pieces with outer being a raincoat or windbreaker
Fleece-lined pockets with storm flaps
2 inside storage pockets
Snap closure side vent zippers to allow access to under raincoat
Snap-flap on placket to secure communication wires
Storm flap to cover full, frontal zipper
Zippered under arm vents
Attached, adjustable rain hood
Drawcord adjustable hem
Adjustable cuff tabs
Fully sealed seams

Sizes: S-5X, Regular and Tall. Sizes to be specified at time of order.

Large TWRA patches shall be sewn 1 1/2 inches below the shoulder seam on both the left and right sleeve.

PANTS, RAIN, GREEN

1000198003 – Men's, Size M-XL (Regular)
1000198002 – Men's, Size 2X-3X (Regular)

Mandatory Manufacturer and Model
Gemplers, 167437

Color: Olive, Olive Drab
Shell: heavier denier polyester for rugged conditions
Fully lined
Waterproof, breathable
Fully sealed seams
Elastic waist with internal drawstring and adjustable snap closures
Extra deep side pockets on the side seams with storm flaps
Zippered back pocket with storm flaps
Extra-long zippers at the bottom of each leg
Adjustable leg openings

Sizes: M-3X, Regular Sizes specified at time of order.

JACKET / PARKA, RAIN, GREEN

1000198001 – Men's, Size M-XL (Regular)
1000198000 – Men's, Size 2X-3X (Regular)

Mandatory Manufacturer and Model
Gemplers, 167436

Color: Olive, Olive Drab
Shell: heavier denier polyester for rugged conditions
Fully lined
Waterproof, breathable
Fully sealed seams
Hip length
Draw-string waist and hood
2 outside covered slant pockets with zipper closures
Inside chest pocket with zipper closure
Storm flap to cover full, frontal zipper
Adjustable cuff tabs

Sizes: M-3X, Regular Sizes specified at time of order.

Large TWRA patches shall be sewn 1 1/2 inches below the shoulder seam on both the left and right sleeve.

COAT / JACKET, RAIN, REVERSIBLE BLACK / HIGH-VIZ YELLOW

1000198007 – Men's, Size S-XL (Regular)
1000198004 – Men's, Size 2X-5X (Regular)
1000198006 – Men's, Size M-XL (Tall)
1000198005 – Men's, Size 2X-5X (Tall)

Mandatory Manufacturer and Model
Spiewak, S317V

Color: Reversible Black & High Visibility Yellow
Meets ANSI/ISEA 107-1015 Type R &P, Class 3 on high viz side
Wind & weather protection
Shell: nylon
Lining: polyester
Performance sleeves allow for range of motion
Elastic waterproof cuffs and hem
Mic tabs on Hi Viz side
Zippered hand warmer pockets on side

Badge tabs on left chest of both sides of garment
High viz side reflective tape
Side vent zipper allow access to equipment underneath
Full zipper from neck to waist with storm flap

Sizes: S-5X, Regular and Tall. Sizes specified at time of order.

Large TWRA patches shall be sewn 1 1/2 inches below the shoulder seam on both the left and right sleeve.

Necktie, Untied Style

1000197985 – Regular length
1000197986 – Long length

Mandatory Manufacturer and Model
S Broome, 90078 & 90099

Necktie with buttonholes
Color: Forest Green
100% polyester

Regular size to be approximately 57-59" long and approximately 3" wide at the widest point.
Long size to be approximately 61-63" long and approximately 3.5" wide at the widest point.

Sizes and lengths specified at time of order.

Each tie shipped with individual cardboard insert shall retain shape during shipping.

Necktie, Clip-on Tie

1000197983 – Regular length
1000197984 – Long length

Mandatory Manufacturer and Model
S Broome, 90010

Necktie - clip on with buttonholes
Color: Forest Green
100% polyester, tropical weave

Regular size to be approximately 19-21" long and approximately 3" wide at the widest point.
Long size to be approximately 22-23" long and approximately 3.5" wide at the widest point.

Sizes and lengths specified at time of order.

Each tie shipped with individual cardboard insert shall retain shape during shipping.

Necktie, Women's Crossover

1000197987 – One Size Fits All

Mandatory Manufacturer and Model
S Broome, 90156-289

Color: Forest Green
100% polyester
Adjustable band with button snap
Women's crossover tie with cloth covered button at crossover
Button same material and color as the tie
One size fits all

Each tie shipped with individual cardboard insert shall retain shape during shipping.

Shirt, Short Sleeve, Class A Dress

1000198048 – Men's, neck size 14-17.5, sleeve length 32-39
1000198049 – Men's, neck size 18-22, sleeve length 32-39
1000198050 – Women's, bust size 28-46
1000198051 – Women's, bust size 48-54

Mandatory Manufacturer and Model
Elbeco Duty Maxx, 5582D (Men's)
Elbeco Duty Maxx, 9782LCD (Women's)
OR
Southeastern, 3205 (Men's)
Southeastern, L3205 (Women's)

Color: Tan or Silver Tan
Fabric- 80% Polyester/ 20% Rayon OR
65% Polyester/ 35% Cotton
Fabric Weight- Minimum 5 oz. sq/yd
Shirts shall have sewn in military creases
Two (2) pleated breast pockets with pen opening in left pocket and pocket flap. Scalloped flaps
Cross stitched shoulder straps

Sizes- Men's 14.5 to 22 Neck Sizes, Sleeve Length 32-39
Women's 28 to 54 Bust Size (Even Only)
Sizes and lengths specified at time order

Large TWRA patches shall be sewn 1 1/2 inches below the shoulder seam on both the left and right sleeve.

Shirt, Long Sleeve, Class A Dress

1000198021 – Men's, neck size 14-17.5, sleeve length 32-39

1000198022 – Men's, neck size 18-22, sleeve length 32-39

1000198023 – Women's, bust size 28-46

1000198024 – Women's, bust size 48-54

Mandatory Manufacturer and Model

Elbeco Duty Maxx, 582D (Men's)

Elbeco Duty Maxx, 9582LCD (Women's)

OR

Southeastern, 3105 (Men's)

Southeastern, L3105 (Women's)

Color: Tan or Silver Tan

Fabric- 80% Polyester/ 20% Rayon OR

65% Polyester/ 35% Cotton

Fabric Weight- Minimum 5 oz. sq/yd

Shirts shall have sewn in military creases

Two (2) pleated breast pockets with pen opening in left pocket and pocket flap. Scalloped flaps

Cross stitched shoulder straps

Sizes- Men's 14-22 Neck Sizes, Sleeve Length 32-39

Women's Bust Size 28-54 (Even)

Sizes and lengths specified at time of order.

Large TWRA patches shall be sewn 1 1/2 inches below the shoulder seam on both the left and right sleeve.

Trousers, Summer, Class A Dress

1000197915 - Women's, sizes 2-18

1000197916 - Women's, sizes 20-24

1000197905 - Men's, Waist 28-42, short, regular, long

1000197906 - Men's, Waist 44-50, short, regular, long

1000197907 - Men's, Waist 52-56, short, regular, long

Mandatory Manufacturer and Model

Flying Cross, F1 39400, Men's

Flying Cross, F1 39400W, Women's

Color: Forest Green

Fabric - 70% Polyester, 28% Rayon, 2% Lycra

Fabric Weight - 11.5-12oz. per linear yard

Weave – Serge

Two (2) quarter side pockets, and two (2) hip pockets. The left hip pocket shall have a centered tab and button closure

Style - Shall be manufactured from a men's/women's uniform trouser pattern, T-1, Plain Front

Sizes - Men's Waist 28-56, length short, regular, and long. Women's size 2-24.

Shall be hemmed to specified length. Sizes and lengths specified at time of order.

Pants, Men's, Class A, Tactical, Lightweight

1000197903 - Size: 28-44 Waist x 30-36 Length

1000197904 - Size: 46-56 Waist x 30-36 Length

Mandatory Manufacturer and Model

Propper, F5252

Color: TDU Green or Olive Green

Lightweight tactical pant

65% Polyester/35% Cotton Ripstop

Elastic Action Waistband

Teflon coating for water and stain resistance

Shrinkage and Wrinkle resistant

Shall include key ring or D-ring

Two front or top pockets, two rear pockets, two cargo pockets, one cell phone pocket

Zipper fly

Men's sizes: 28-56 waist x 30-36 length. Shall be hemmed to specified length. Sizes and lengths specified at time of order.

Pants, Men's, Class A, Tactical, Summer Weight

1000197927 - Size: 28-44 Waist x 30-36 Length

1000197928 - Size: 46-54 Waist x 30-36 Length

Mandatory Manufacturer and Model

Propper, F5258

Color: TDU Green or Olive Green

Summer weight tactical pant

Fabric – 4.2 oz, 94% nylon / 6% spandex ripstop

UPF 50 sun protection

Teflon coating for water and stain resistance

Moisture wicking

Shrinkage and Wrinkle resistant

Mesh front pockets with knife reinforcement

Shall include key ring or D-ring

Two front or top pockets, two rear pockets, two cargo pockets, one cell phone pocket

Zipper fly

Men's sizes: 28-54 waist x 30-36 length. Shall be hemmed to specified length. Sizes and lengths specified at time of order.

Pants, Women's, Class A, Tactical, Lightweight

1000197912 – Size 2-18

1000197911 – Size 20-24

Mandatory Manufacturer and Model

Propper, F5272

Color: TDU Green or Olive Green

Lightweight Tactical Trouser

Fabric weight minimum 4.5 ounce

65% Polyester/35% Cotton Ripstop

Minimum inseam 36"

Elastic Action Waistband

Teflon coating for water and stain resistance

Shrinkage and Wrinkle resistant

Shall include key ring or D-ring Two front or top pockets, two rear pockets, two cargo pockets, one cell phone pocket

Zipper fly

Women's sizes: 2-24

Shall be hemmed to specified length. Sizes and lengths specified at time of order.

Pants, Women's, Class A, Tactical, Summer Weight

1000197929 – Size 2-18

1000197930 – Size 20-24

Mandatory Manufacturer and Model

Propper, F5296

Color: TDU Green or Olive Green

Summer weight Tactical Trouser

Fabric weight – 4.2 oz

94% nylon / 6% spandex ripstop

Minimum inseam 36"

UPF 50 sun protection

Teflon coating for water and stain resistance

Moisture wicking
Shrinkage and Wrinkle resistant
Mesh front pockets with knife reinforcement
Shall include key ring or D-ring
Two front or top pockets, two rear pockets, two cargo pockets, one cell phone pocket
Zipper fly

Women's sizes: 2-24.

Shall be hemmed to specified length. Sizes and lengths specified at time of order.

Shorts, Class A, Tactical, Lightweight

1000197901 – Size 28-42

1000197902 – Size 44-56

Mandatory Manufacturer and Model
Propper, F5253

Color: TDU Green or Olive Green
Lightweight Tactical Shorts
Fabric weight- 6.14 ounce or 6.5 ounce
65% Polyester/35% Cotton Ripstop
Elastic Action Waistband
Teflon coating for stain resistance
Fade and Wrinkle resistant
Zipper Fly
Two front or top pockets, two rear pockets, two cargo pockets, one cell phone pocket
Inseam- 9 inch or 9 ½ inch

Sizes: 28-56. Sizes specified at time of order.

Shorts, Class A, Tactical, Summer Weight

1000197925 – Size 28-42

1000197926 – Size 44-56

Mandatory Manufacturer and Model
Propper, F5264

Color: TDU Green or Olive Green
Summer weight Tactical Shorts
Fabric weight – 4.2 oz
94% nylon / 6% spandex ripstop
UPF 50 sun protection
Teflon coating for water and stain resistance

Moisture wicking
Shrinkage and Wrinkle resistant
Mesh front pockets with knife reinforcement
Two front or top pockets, two rear pockets, two cargo pockets, one cell phone pocket
Zipper fly
Inseam- 9 inch or 9 ½ inch

Sizes: 28-56. Sizes specified at time of order.

Shirt, Class A, Tactical, Long Sleeve, Lightweight

1000198062 – Size XS-XL (Regular)
1000198059 – Size 2X-5X (Regular)
1000198061 – Size XS-XL (Tall)
1000198060 – Size 2X-5X (Tall)

Mandatory Manufacturer and Model
Propper, F5312

Color: TDU Green or Olive Green
Lightweight Tactical Shirt, Long Sleeve
65% Polyester/35% Cotton Ripstop
Teflon fabric protector
3.95 or 4 oz. fabric weight
Hidden Zipper (Mock Button Up) or Button up
Cuff adjustments and tabs/buttons to roll up sleeves
Hidden button-down collar
Two chest pockets

Sizes: XS-5XL. Sizes and lengths specified at time of order if available from manufacturer

Left Side: Class A Badge emblem, 3" high, shall be sewn by the contractor, centered above the left chest pocket would be.

- Silver Badge emblems for Wildlife Officers, Manager 1, & Manager 2.
- Gold Badge Emblems for Sergeants, Lieutenants, Captains, Majors, Lt. Colonels, Colonels, and Manager 3, and Manager 4.

Right Side: Right Side: Contractor shall create and attach nametapes from information provided by the State. Tape shall be sewn centered above right chest pocket by contractor. Name tape shall be cotton Olive Drab 1" tall with 3/4" black block lettering. Lettering-Rank will shall be abbreviated followed by first initial and then added before last name when specified. Example: Capt. J. Doe

Large TWRA patches shall be sewn 1 1/2 inches below the shoulder seam on both the left and right sleeve.

Shirt, Class A, Tactical, Long Sleeve, Summer Weight

1000198074 – Size XS-XL (Regular)
1000198071 – Size 2X-4X (Regular)
1000198073 – Size XS-XL (Tall)
1000198072 – Size 2X-4X (Tall)

Mandatory Manufacturer and Model
Propper, F5346

Color: TDU Green or Olive Green
Summer weight Tactical Shirt, Long Sleeve
Fabric weight – 4.2 oz, 94% nylon / 6% spandex ripstop
UPF 50 sun protection
Teflon coating for water and stain resistance
Moisture wicking
Shrinkage and Wrinkle resistant
Vented back panel
Pen pocket on sleeve
Hidden Zipper (Mock Button Up) or Button up
Cuff adjustments and tabs/buttons to roll up sleeves
Hidden button-down collar
Two chest pockets with pen slots

Sizes: XS-4XL. Sizes and lengths specified at time of order if available from manufacturer

Left Side: Class A Badge emblem, 3” high, will be sewn by the contractor, centered above the left chest pocket would be.

- Silver Badge emblems for Wildlife Officers, Manager 1, & Manager 2.
- Gold Badge Emblems for Sergeants, Lieutenants, Captains, Majors, Lt. Colonels, Colonels, and Manager 3, and Manager 4.

Right Side: Contractor shall create and attach nametapes from information provided by the State. Tape shall be sewn centered above right chest pocket by contractor. Name tape shall be cotton Olive Drab 1” tall with 3/4” black block lettering. Lettering-Rank will shall be abbreviated followed by first initial and then added before last name when specified. Example: Capt. J. Doe

Large TWRA patches shall be sewn 1 1/2 inches below the shoulder seam on both the left and right sleeve.

Shirt, Class A, Tactical, Short Sleeve, Lightweight

1000198063 - Size XS-XL (Regular)
1000198064 - Size 2X-4X (Regular)

Mandatory Manufacturer and Model
Propper, F5311

Color: TDU Green or Olive Green
Lightweight Tactical Shirt, Short Sleeve
65% Polyester/35% Cotton Ripstop
Teflon fabric protector
3.95 or 4.0 oz. fabric weight
Hidden Zipper (Mock Button Up) or Button up
Hidden button-down collar
Two Chest Pockets

Sizes: XS-4XL. Sizes specified at time of order.

Left Side: Class A Badge emblem, 3" high, shall be sewn by the contractor, centered above the left chest pocket would be.

- Silver Badge emblems for Wildlife Officers, Manager 1, & Manager 2.
- Gold Badge Emblems for Sergeants, Lieutenants, Captains, Majors, Lt. Colonels, Colonels, and Manager 3, and Manager 4.

Right Side: Contractor shall create and attach nametapes from information provided by the State. Tape shall be sewn centered above right chest pocket by contractor. Name tape shall be cotton Olive Drab 1" tall with 3/4" black block lettering. Lettering-Rank will shall be abbreviated followed by first initial and then added before last name when specified. Example: Capt. J. Doe

Large TWRA patches shall be sewn 1 1/2 inches below the shoulder seam on both the left and right sleeve.

Shirt, Class A, Tactical, Short Sleeve, Summer Weight

1000198075 – Size XS-XL (Regular)
1000198076 – Size 2X-4X (Regular)

Mandatory Manufacturer and Model
Propper, F5374

Color: TDU Green or Olive Green
Summer weight Tactical Shirt, Short Sleeve
Fabric weight – 4.2 oz
94% nylon / 6% spandex ripstop
UPF 50 sun protection
Teflon coating for water and stain resistance
Moisture wicking
Shrinkage and Wrinkle resistant
Vented back panel
Pen pocket on sleeve
Hidden Zipper (Mock Button Up) or Button up
Cuff adjustments and tabs/buttons to roll up sleeves
Hidden button-down collar

Two chest pockets with pen slots

Sizes: XS-4XL Sizes specified at time of order.

Left Side: Class A Badge emblem, 3" high, will be sewn by the contractor, centered above the left chest pocket would be.

- Silver Badge emblems for Wildlife Officers, Manager 1, & Manager 2.
- Gold Badge Emblems for Sergeants, Lieutenants, Captains, Majors, Lt. Colonels, Colonels, and Manager 3, and Manager 4.

Right Side: Contractor shall create and attach nametapes from information provided by the State at time of order. Tape shall be sewn centered above right chest pocket by contractor. Name tape shall be cotton Olive Drab 1" tall with 3/4" black block lettering. Lettering-Rank will shall be abbreviated followed by first initial and then added before last name when specified. Example: Capt. J. Doe

Large TWRA patches shall be sewn 1 1/2 inches below the shoulder seam on both the left and right sleeve.

Shirt, Polo, Class A, Short Sleeve, with Mic Clip

1000198042 – Men's, Size S-XL (Regular)

1000198040 – Men's, Size 2X-3X (Regular)

1000198041 – Men's, 4X-5X (Regular)

1000198043 – Women's, Size S-2X

1000198044 - Women's, Size 3X-4X

Mandatory Manufacturer and Model

Elbeco, K5132, Men's

Elbeco, K5274LC, Women's

Color: Tan or Silver Tan

Fabric - 100% Polyester Knit, Moisture-wicking, Antimicrobial

Fabric Weight - Minimum 6.7 oz

Closure – Three (3) button placket

No curl knit collar

Mic-clip pockets located on each shoulder and center mic loop at the sternum level

Pen pocket on left sleeve

Tagless neck

Sizes: Men's S-5X, Women's S-4X Sizes specified at time of order.

Large TWRA patches shall be sewn 1 1/2 inches below the shoulder seam on both the left and right sleeve.

On left side, Contractor shall attach 3" high Class A Badge Emblem where pocket would be.

On right side, in ½” capital letters, embroidered in Forest Green (PMS 349), Line 1: specified rank, not abbreviated. (Ex. Captain) Line 2: in ½” capital letters, (Initial of First Name.) & (Full Last Name). (Ex: J. Parks). Ranks and names provided at time of order.

Color specified at time of order based on the following below.

- Silver Badge emblems for Wildlife Officers, Manager 1, & Manager 2.
- Gold Badge Emblems for Sergeants, Lieutenants, Captains, Majors, Lt. Colonels, Colonels, and Manager 3, and Manager 4.

Jeans, Men’s, Denim, Relaxed Fit

1000197899 - Waist 28-42, length-28-37

1000197900 - Waist 44-54, length-28-37

Mandatory Manufacturer and Model
Carhartt, B17

Color: Indigo or Darkstone
Style – Relaxed Fit Jean
Fabric – 100% Cotton Heavyweight Denim
Weight – 13.75 oz. to 15 oz.
Prewashed finish
Zipper Fly
Traditional 5 pocket jean styling

Sizes – Men’s, Waist 28-54, Inseam 28-37

Shall be hemmed to specified length. Sizes and lengths specified at time of order.

Jeans, Women’s, Denim, Relaxed Fit

1000197917 – Size 2-18, length 26-34

1000197918 – Size 20-24, length 26-34

Mandatory Manufacturer and Model
Carhartt, 102731

Color: Indigo or Darkstone
Style – Relaxed Fit
Fabric – 100% Cotton Heavyweight Denim
Weight – 13.75 oz. to 15 oz.
Prewashed finish
Zipper Fly
Traditional 5 pocket jean styling

Sizes – Women’s 2-24, length 26-34

Shall be hemmed to specified length. Sizes and lengths specified at time of order.

Pants, Men’s, Canvas, Utility

1000197923 - Size: 30-44 Waist x 30-36 Length

1000197924 - Size: 46-50 Waist x 30-36 Length

Mandatory Manufacturer and Model

Carhartt, 103334, B11

Color: Moss or Dark Green

Relaxed Fit Duck Work Pant

12 oz, 99% cotton & 1% spandex

Flex, stretch technology

Relaxed fit, comfortable thru seat and thigh

Straight leg

Strong sewn-on-seam belt loops and hammer loop

Double-layer knees with opening for adding kneepads or cleaning out debris

Front pockets

Heavy-hauling reinforced lined back pockets

Multiple tool pockets

Men’s sizes: 30-50 waist x 30-36 length.

Shall be hemmed to specified length. Sizes and lengths specified at time of order.

Pants, Women’s, Canvas, Utility

1000197919 – Size 2-18

1000197920 – Size 20-24

Mandatory Manufacturer and Model

Carhartt, 102080

Color – Moss or Dark Green

Relaxed Fit Duck Work Pant

8-oz, 98% cotton duck washed canvas with 2% spandex

Relaxed or loose fit

Triple stitched seams

Mid-rise

Straight legged

Multiple tool and utility pockets

Hammer loop

2 reinforced back pockets

Women's sizes: 2-24.

Shall be hemmed to specified length. Sizes and lengths specified at time of order.

Shirt, Short Sleeve, Cotton-Canvas, Men's

1000198055 – Sizes S-XL (Regular)

1000198052 – Sizes 2X-4X (Regular)

1000198054 – Sizes S-XL (Tall)

1000198053 – Sizes 2X-3X (Tall)

Mandatory Manufacturer and Model

Carhartt, S200

Color: Sandstone or Dark Tan Chambray

Loose fit

Fabric – 100% cotton canvas or 100% cotton chambray or 58% cotton / 39% poly / 3% spandex

Fabric Weight – minimum 3.0 ounce per square yard

Full button front closure

Double or triple stitched major seams

Two (2) front chest pockets with button down flaps

Sizes – S-4X. Sizes and lengths specified at time of order.

Large TWRA patches shall be sewn 1 1/2 inches below the shoulder seam on both the left and right sleeve.

Optional: Division name shall be embroidered on left chest. 1" capital lettering, in Forest Green (PMS 349). Shall be specified at time of order.

Shirt, Long Sleeve, Cotton-Canvas, Men's

1000198026 – Sizes S-XL (Regular)

1000198028 – Sizes 2X-4X (Regular)

1000198027 - Sizes S-XL (Tall)

1000198025 - Sizes 2X-3X (Tall)

Mandatory Manufacturer and Model

Carhartt, S202

Color: Sandstone or Dark Tan Chambray

Loose fit

Fabric – 100% cotton canvas or 100% cotton chambray or 58% cotton / 39% poly / 3% spandex

Fabric Weight – minimum 3.0 ounce per square yard

Full button front closure

Double or triple stitched major seams
Two (2) front chest pockets with button down flaps
Adjustable button sleeve cuffs

Sizes – S - 4XL Sizes and lengths specified at time of order.

Large TWRA patches shall be sewn 1 1/2 inches below the shoulder seam on both the left and right sleeve.

Optional: Division name shall be embroidered on left chest. 1" capital lettering, in Forest Green (PMS 349). Will be specified at time of order.

Shirt, Short Sleeve, Cotton-Canvas, Women's

1000199460 – Sizes XS-L (Regular)
1000199461 – Sizes XL-2X (Regular)

Mandatory Manufacturer and Model
Carhartt, 103105

Color: Sandstone or Dark Tan Chambray
Loose fit
Fabric – 100% cotton canvas or 100% cotton chambray or 58% cotton / 39% poly / 3% spandex
Fabric Weight – minimum 3.0 ounce per square yard
Full button front closure
Double or triple stitched major seams
Two (2) front chest pockets with button down flaps
Stain release technology

Sizes: XS-2X Sizes specified at time of order.

Large TWRA patches shall be sewn 1 1/2 inches below the shoulder seam on both the left and right sleeve.

Optional: Division name shall be embroidered on left chest. 1" capital lettering, in Forest Green (PMS 349). Will be specified at time of order.

Shirt, Long Sleeve, Cotton-Canvas, Women's

1000199462 – Sizes XS-L (Regular)
1000199463 – Sizes XL-2X (Regular)

Mandatory Manufacturer and Model
Carhartt, 103106

Color: Sandstone or Dark Tan Chambray

Loose fit

Fabric – 100% cotton canvas or 100% cotton chambray or 58% cotton / 39% poly / 3% spandex

Fabric Weight – minimum 3.0 ounce per square yard

Full button front closure

Double or triple stitched major seams

Two (2) front chest pockets with button down flaps

Adjustable button sleeve cuffs

Stain release technology

Sizes: XS-2X Sizes specified at time of order.

Large TWRA patches shall be sewn 1 1/2 inches below the shoulder seam on both the left and right sleeve.

Optional: Division name shall be embroidered on left chest. 1" capital lettering, in Forest Green (PMS 349). Will be specified at time of order.

Shirt, Short Sleeve, Cotton T-Shirt, Men's

1000198297 - Sizes S-XL, regular

1000198298 - Sizes 2X-3X, regular

1000198299 – Sizes 4X-6X, regular

1000198300 - Sizes L-2X, tall

1000198301 - Sizes 3X, tall

1000198302 – Sizes 4X, tall

Mandatory Manufacturer and Model

Hanes, 5250T, regular

Hanes, 518T, tall

Color: Gray, Steel, or Silver

6.1 oz., Heavyweight, 100% cotton

Pocketless

Tag free label

Crew neck

Size: S-6X – Sizes and lengths specified at time of order.

Small TWRA logo shall be embroidered with forest green thread on left side of chest.

Shirt, Short Sleeve, Cotton T-Shirt, Women's

1000198303 - Sizes S-XL, regular

1000198304 - Sizes 2X, regular

1000198305 - Sizes 3X, regular

Mandatory Manufacturer and Model
Hanes, 5680

Color: Gray, Steel, or Silver
6.1 oz., Heavyweight, 100% cotton
Pocketless
Tag free label
Crew neck

Size: S-3X – Sizes and lengths specified at time of order.

Small TWRA logo shall be embroidered with forest green thread on left side of chest.

Shirt, Short Sleeve, Hooded T-Shirt

1000198306 - Sizes S-XL, men's
1000198307 - Sizes 2X, men's
1000198308 - Sizes 3X, men's
1000198309 - Sizes 4X, men's

Mandatory Manufacturer and Model
Badger Sport, 4123

Color: Gray or Silver
Fast-drying 100% polyester, 3.5 oz.
Moisture-wicking technology
Antimicrobial properties
Self-fabric hood with drawcord
Double-needle hem
Tag free label

Size: S-4X – Sizes and lengths specified at time of order.

Small TWRA logo shall be embroidered with forest green thread on left side of chest.

Shirt, Long Sleeve, Hooded T-Shirt

1000198310 - Sizes S-XL, men's
1000198311 - Sizes 2X, men's
1000198312 - Sizes 3X, men's
1000198313 - Sizes 4X, men's
1000198314 – Sizes XS-XL, women's
1000198315 – Sizes 2X, women's

Mandatory Manufacturer and Model
Badger Sport, 4105, men's

Badger Sport, 4165, women's

Color: Gray or Silver
Fast-drying 100% polyester, 3.5 oz.
Moisture-wicking technology
Antimicrobial properties
Self-fabric hood with drawcord
Double-needle hem
Tag free label
Thumb hole in sleeve

Size: XS-4X – Sizes and lengths specified at time of order.

Small TWRA logo shall be embroidered with forest green thread on left side of chest.

Shirt, Long Sleeve, Hooded Sweatshirt

1000198316 - Sizes XS-XL, men's
1000198317 - Sizes 2X, men's
1000198318 - Sizes 3X, men's
1000198319 - Sizes 4X, men's

Mandatory Manufacturer and Model
Sport-Tek, ST250

Color: Vintage Heather
Fast-drying 100% polyester, 7.1 oz.
Snag-resistant, pill-resistant
Moisture-wicking
Three-panel hood
Closed-hole mesh hood lining
Taped neck
Raglan sleeves
Rib knit cuffs and hem
Integrated front pouch pocket
Tag free label

Size: XS-4X – Sizes and lengths specified at time of order.

Small TWRA logo shall be embroidered with forest green thread on left side of chest.

Shirt, Short Sleeve, Vented, Sun Blocking

1000198056 - Sizes S-2X (Regular)
1000198057 - Sizes 1X-6X (Big)
1000198058 - Sizes LT-5XT (Tall)

1000198320 – Sizes XS-2X (Regular), women’s
1000198321 – Sizes 1X-3X (Plus), women’s

Mandatory Manufacturer and Model
Columbia Bahama II, FM7047, FS7047, FT7047, men’s
Columbia Bahama, FL7313, FW7313, women’s

Color: Tan or Fossil
Fast-drying 100% nylon taffeta with moisture-wicking technology
Omni-Shade UPF 50 sun protection
Antimicrobial properties
Mesh lined cape vents at back shoulders
Two large chest utility pockets
Button up front
Button-down collar

Size: S-6X – Regular, Big, and Tall sizes. Sizes and lengths specified at time of order.

Small TWRA emblem shall be embroidered on the left chest of the shirt. There are two (2) variations of the emblem: one with the word “COMMISSIONER” centered under the emblem, and the other as the emblem only. Ninety percent of the orders will have the emblem only.

- Small TWRA emblem shall be embroidered in solid black thread.

Shirt, Long Sleeve, Vented, Sun Blocking

1000198010 - Sizes S-2X (Regular), men’s
1000198011 - Sizes 1X-6X (Big), men’s
1000198012 - Sizes LT-5XT (Tall), men’s
1000198322 – Sizes XS-2X (Regular), women’s
1000198323 – Sizes 1X-3X (Plus), women’s

Mandatory Manufacturer and Model
Columbia Bahama II, FM7048, FS7048, FT7048, men’s
Columbia Bahama, FL7314, FW7314, women’s

Color: Tan or Fossil
Fast-drying 100% nylon taffeta with moisture-wicking technology
Omni-Shade UPF 50 sun protection
Antimicrobial properties
Mesh lined cape vents at back shoulders
Two large chest utility pockets
Button up front
Button-down collar

Size: S-6X – Regular, Big, Tall, Plus sizes. Sizes and lengths specified at time of order.

Small TWRA emblem shall be embroidered on the left chest of the shirt. There are two (2) variations of the emblem: one with the word "COMMISSIONER" centered under the emblem, and the other as the emblem only. Ninety percent of the orders will have the emblem only.

- Small TWRA emblem shall be embroidered in solid black thread.

Shirt, Polo, Short Sleeve, Class B, Boating

1000198029 – Men's, Size S-XL (Regular)
1000198031 – Men's, Size 2X-5X (Regular)
1000198030 – Men's, S-XL (Tall)
1000198032 – Men's, Size 2X-5X (Tall)
1000198034 – Women's, Size XS-XL
1000198033 – Women's, Size 2X-4X

Mandatory Manufacturer and Model
Port Authority, Men's, K525, TLK525
Port Authority, Women's, L525

Color: Tan
Minimum 4.4 oz, 100% polyester
Moisture-wicking
Snag resistant
Flat knit collar
3-button Y-neck placket
Open hem sleeves
Side vents
Dyed to match buttons

Sizes: Men's S-5X (regular & tall) & Women's XS-4X. Sizes and lengths specified at time of order.

Large TWRA patches shall be sewn 1 1/2 inches below the shoulder seam on both the left and right sleeve.

Optional: Division name shall be embroidered in Forest Green (PMS 349) on the left chest in 1/2" capital letters. (example--Fisheries, Wildlife, Forestry etc.) Will be specified at time of order.

Staff Shirt, Polo, Short Sleeve, Men's, Dri-Tech

1000199450 – Men's, Size XS-XL (Regular)
1000199451 – Men's, Size 2X-4X (Regular)

Mandatory Manufacturer and Model
Nike, Dri-Fit Victory, DH0824

Colors: Black, University Blue, Light Smoke Grey, White, College Navy

100% polyester
Moisture wicking
2 Buttons – horn tone, dyed to match, or pearlized buttons
Double needle stitched
Rib knit collar and cuffs

Sizes – Regular XS-4X

Sizes, lengths, and colors specified at time of order.

Small TWRA emblem shall be embroidered on the left chest of the shirt. There are two (2) variations of the emblem: one with the word “COMMISSIONER” centered under the emblem, and the other as the emblem only. Ninety percent of the orders will have the emblem only.

- TWRA small sized emblem shall be embroidered in solid gray thread on black and navy shirts.
- All other colors, Small TWRA emblem shall be embroidered in solid black thread.

Staff Shirt, Polo, Short Sleeve, Women’s, Dri-Tech

1000199454 – Women’s, Size XS-XL (Regular)

1000199455 – Women’s, Size 2X (Regular)

Mandatory Manufacturer and Model
Nike, Dri-Fit Victory, CU9679

Colors: Pink, Ghost, Black
100% polyester
Moisture wicking
2 Buttons – horn tone, dyed to match, or pearlized buttons
Double needle stitched
Rib knit collar and cuffs

Sizes – Regular XS-2X

Sizes, lengths, and colors specified at time of order.

Small TWRA emblem shall be embroidered on the left chest of the shirt. There are two (2) variations of the emblem: one with the word “COMMISSIONER” centered under the emblem, and the other as the emblem only. Ninety percent of the orders will have the emblem only.

- Small TWRA emblem shall be embroidered in solid gray thread on black and navy shirts.
- All other colors, Small TWRA emblem shall be embroidered in solid black thread.

Staff Shirt, Polo, Short Sleeve, Men’s

1000198037 – Men’s, Size S-XL (Regular)

1000198039 – Men’s, Size 2X-4X (Regular)
1000198035 - Men’s, Size 5X-6X (Regular)
1000198036 – Men’s, Size XL (Tall)
1000198038 – Men’s, Size 2X-3X (Tall)

Mandatory Manufacturer and Model

Devon & Jones, D100
Devon & Jones, D100T

Colors: Regular – Black, Rust, Dill, Forest Green, Espresso, French Blue, Graphite, Navy, Silver, White, Burgundy

Colors: Tall – Black, Navy, Royal Blue, White

Fabric – 6.8 oz., 100% cotton pique

Garment washed for softness

3 Buttons – horn tone, dyed to match, or pearlized buttons

Double needle stitched

Rib knit cuffs

Sizes – Regular S-6XL, Tall XLT-3XLT

Sizes, lengths, and colors specified at time of order.

TWRA small sized emblem shall be embroidered on the left chest of the shirt. There are two (2) variations of the emblem: one with the word “COMMISSIONER” centered under the emblem, and the other as the emblem only. Ninety percent of the orders will have the emblem only.

- Small TWRA emblem shall be embroidered in solid gray thread on black, navy, and espresso-colored shirts.
- All other colors, Small TWRA emblem shall be embroidered in solid black thread.

Staff Shirt, Polo, Long Sleeve, Men’s

1000199456 – Men’s, Size S-XL (Regular)
1000199457 – Men’s, Size 2X-4X (Regular)

Mandatory Manufacturer and Model

Devon & Jones, D110

Colors: Black, Dill, Forest Green, French Blue, Navy, White, Burgundy

6.8 oz., 100% cotton pique

Garment washed for softness

3 Buttons – horn tone, dyed to match, or pearlized buttons

Double needle stitched

Side vents

Hemmed sleeves

Sizes – Regular S-4XL

Sizes, lengths, and colors specified at time of order.

TWRA small sized emblem is to be embroidered on the left chest of the shirt. There are two (2) variations of the emblem: one with the word "COMMISSIONER" centered under the emblem, and the other as the emblem only. Ninety percent of the orders will have the emblem only.

- Small TWRA emblem shall be embroidered in solid gray thread on black and navy shirts.
- All other colors, Small TWRA emblem shall be embroidered in solid black thread.

Staff Shirt, Polo, Short Sleeve, Women's

1000198047 – Women's, Size XS-XL (Regular)

1000198045 – Women's, Size 2X-3X (Regular)

Mandatory Manufacturer and Model

Devon & Jones, D100W

Colors: Black, Dark Orange, Dill, Forest Green, Espresso, French Blue, Graphite, Navy, Silver, White, Burgundy, Pink

Fabric - 6.8 oz., 100% cotton pique

Garment washed for softness

3 Buttons – horn tone, dyed to match, or pearlized buttons

Double needle stitched

Rib knit cuffs

Sizes – XS-3X

Sizes and colors specified at time of order.

TWRA small sized emblem shall be embroidered on the left chest of the shirt. There are two (2) variations of the emblem: one with the word "COMMISSIONER" centered under the emblem, and the other as the emblem only. Ninety percent of the orders will have the emblem only.

- Small TWRA emblem shall be embroidered in solid gray thread on black, navy, and espresso-colored shirts.
- All other colors, Small TWRA emblem shall be embroidered in solid black thread.

Staff Shirt, Polo, Long Sleeve, Women's

1000199459 – Women's, Size S-XL (Regular)

1000199458 – Women's, Size 2X (Regular)

Mandatory Manufacturer and Model

Devon & Jones, D110W

Colors: Black, Navy, Dill, Burgundy, Forest Green, French Blue, White

Fabric – 6.8 oz., 100% cotton pique

Garment washed for softness
3 Buttons – horn tone, dyed to match, or pearlized buttons
Double needle stitched
Side vents
Hemmed sleeves

Sizes – S-2X

Sizes and colors specified at time of order.

TWRA small sized emblem shall be embroidered on the left chest of the shirt. There are two (2) variations of the emblem: one with the word “COMMISSIONER” centered under the emblem, and the other as the emblem only. Ninety percent of the orders will have the emblem only.

- Small TWRA emblem shall be embroidered in solid gray thread on black and navy shirts.
- All other colors, Small TWRA emblem shall be embroidered in solid black thread.

Staff Shirt, Button Up, Long Sleeve, Men’s

1000198017 – Men’s, Size XS-XL (Regular)
1000198013 – Men’s, Size 2X-4X (Regular)
1000198015 – Men’s, Size 5X-6X (Regular)
1000198016 – Men’s, Size XL (Tall)
1000198014 – Men’s, Size 2X-3X (Tall)

Mandatory Manufacturer and Model
Devon & Jones, D620 (regular)
Devon & Jones, D620T (tall)

Colors: Regular - Dill, Black, Burgundy, French Blue, Navy, Silver, White, Crystal Blue
Colors: Tall – Black, French Blue, Navy, White
Fabric – 3.4 oz., 55/45 cotton/poly blend
Wrinkle resistant, easy-care fabric
Stain release
Buttons – Dyed-to-match, bone horn, or pearlized buttons
Button down collar
Adjustable cuffs
Pucker-free taped seams

Sizes – Regular XS-6XL & Tall XLT-3XT

Sizes, lengths, and colors specified at time of order.

TWRA small sized emblem shall be embroidered on the left chest of the shirt. There are two (2) variations of the emblem: one with the word “COMMISSIONER” centered under the emblem, and the other as the emblem only. Ninety percent of the orders will have the emblem only.

- Small TWRA emblem shall be embroidered in solid gray thread on black and navy shirts.
- All other colors, Small TWRA emblem shall be embroidered in solid black thread.

Staff Shirt, Button Up, Short Sleeve, Men's

1000199490 – Men's, Size XS-XL
1000199491 – Men's, Size 2X-4X
1000199492 – Men's, Size 5X-6X

Mandatory Manufacturer and Model
Devon & Jones, D620S (Regular)

Colors: Black, French Blue, Navy, White
Fabric – 3.4 oz., 55/45 cotton/poly blend
Wrinkle resistant, easy-care fabric
Stain release
Buttons – Dyed-to-match, bone horn, or pearlized buttons
Button down collar
Adjustable cuffs
Pucker-free taped seams

Sizes – Regular XS-6XL

Sizes, lengths, and colors specified at time of order.

TWRA small sized emblem shall be embroidered on the left chest of the shirt. There are two (2) variations of the emblem: one with the word "COMMISSIONER" centered under the emblem, and the other as the emblem only. Ninety percent of the orders will have the emblem only.

- Small TWRA emblem shall be embroidered in solid gray thread on black and navy shirts.
- All other colors, Small TWRA emblem shall be embroidered in solid black thread.

Staff Shirt, Women's, Button Up, Long Sleeve

1000198020 – Women's, Size XS-XL (Regular)
1000198018 – Women's, Size 2X-4X (Regular)

Mandatory Manufacturer and Model
Devon & Jones, D620W

Colors: Dill, Black, Burgundy, French Blue, Navy, Silver, White, Crystal Blue, Pink
Fabric – 3.4 oz., 55/45 cotton/poly blend
Wrinkle resistant, easy-care fabric
Stain release
Buttons – Dyed-to-Match, Bone Horn, or pearlized buttons
Adjustable Cuffs
No pocket

Sizes – XS-4XL

Sizes and colors specified at time of order.

TWRA small sized emblem shall be embroidered on the left chest of the shirt. There are two (2) variations of the emblem: one with the word “COMMISSIONER” centered under the emblem, and the other as the emblem only. Ninety percent of the orders will have the emblem only.

- Small TWRA emblem shall be embroidered in solid gray thread on black and navy shirts.
- All other colors, Small TWRA emblem shall be embroidered in solid black thread.

Staff Shirt, Women’s, Button Up, Short Sleeve

1000199452 – Women’s, Size XS-XL (Regular)

1000199453 – Women’s, Size 2X-3X (Regular)

Mandatory Manufacturer and Model

Devon & Jones, D620SW

Colors: Black, French Blue, Navy, White

Fabric – 3.4 oz., 55/45 cotton/poly blend

Wrinkle resistant, easy-care fabric

Stain release

Buttons – Dyed-to-Match, Bone Horn, or pearlized buttons

Adjustable Cuffs

No pocket

Sizes – XS-3XL

Sizes and colors specified at time of order.

TWRA small sized emblem shall be embroidered on the left chest of the shirt. There are two (2) variations of the emblem: one with the word “COMMISSIONER” centered under the emblem, and the other as the emblem only. Ninety percent of the orders will have the emblem only.

- Small TWRA emblem shall be embroidered in solid gray thread on black and navy shirts.
- All other colors, Small TWRA emblem shall be embroidered in solid black thread.

CARDIGAN, WOMEN’S, OPEN CONCEPT

1000198009 - XS-XL

1000198008 - 2X-4X

Mandatory Manufacturer and Model

Port Authority, L5430

Colors: Black, Gray, Navy

Cardigan, open concept, long sleeves

Soft jersey knit
4.4 oz, 62/33/5 poly/rayon/spandex
Roll sleeves with button tabs
Shawl collar
Angled front hem

Sizes XS-4X

Sizes and colors specified at time of order.

TWRA small sized emblem shall be embroidered on the left chest of the shirt. There are two (2) variations of the emblem: one with the word "COMMISSIONER" centered under the emblem, and the other as the emblem only. Ninety percent of the orders will have the emblem only.

- Small TWRA emblem shall be embroidered in solid gray thread on black and navy shirts.
- All other colors, Small TWRA emblem shall be embroidered in solid black thread.

SHIRT, WOMEN'S, ¾ SLEEVE, SOFT, SPLIT NECK

1000198066 - XS-XL
1000198065 - 2X-4X

Mandatory Manufacturer and Model
Port Authority, LK5433

Colors: Black, Gray, Ivory, Navy
Shirt, Slit neck, ¾ sleeves
Soft jersey knit
Front: 4.4 oz, 62/33/5 poly/rayon/spandex
Back: 3.3 oz, woven 69/31 rayon/poly
Slight drop shoulder
Back seaming
Side vents
Drop tail hem

Sizes XS-4X

Sizes and colors specified at time of order.

TWRA small sized emblem shall be embroidered on the left chest of the shirt. There are two (2) variations of the emblem: one with the word "COMMISSIONER" centered under the emblem, and the other as the emblem only. Ninety percent of the orders will have the emblem only.

- Small TWRA emblem shall be embroidered in solid gray thread on black and navy shirts. All other colors, Small TWRA emblem shall be embroidered in solid black thread.

SHIRT, WOMEN'S, V-NECK, T-SHIRT

1000198070 - XS-XL
1000198069 - 2X-4X

Mandatory Manufacturer and Model
Port Authority, LM1005

Colors: Black, Gray, Navy
T-Shirt, V-Neck, short sleeve
Soft feel
5.5 oz, 58/38/4 cotton/modal/spandex
Self-fabric neck tapering
Overlock stitching at neck
Double-needle sleeve hems

Sizes XS-4X

Sizes and colors specified at time of order.

TWRA small sized emblem shall be embroidered on the left chest of the shirt. There are two (2) variations of the emblem: one with the word "COMMISSIONER" centered under the emblem, and the other as the emblem only. Ninety percent of the orders will have the emblem only.

- Small TWRA emblem shall be embroidered in solid gray thread on black and navy shirts.
- All other colors, Small TWRA emblem shall be embroidered in solid black thread.

SHIRT, WOMEN'S, HENLEY TUNIC, OPEN CONCEPT

1000198068 - XS-XL
1000198067 - 2X-4X

Mandatory Manufacturer and Model
Port Authority, LK5432

Colors: Black, Gray, Ivory, Navy
Henley, tunic, soft, flowy, open neck, long sleeves
4.4 oz, 62/33/5 poly/rayon/spandex (sleeves and back)
3.3 oz, woven 69/31 rayon/poly (front, back yoke, and sleeve tabs)
Bust darts
Inverted back pleats
Roll sleeves with button tabs
Longer tunic length
Curved hem

Sizes XS-4X

Sizes and colors specified at time of order.

TWRA small sized emblem shall be embroidered on the left chest of the shirt. There are two (2) variations of the emblem: one with the word "COMMISSIONER" centered under the emblem, and the other as the emblem only. Ninety percent of the orders will have the emblem only.

- Small TWRA emblem shall be embroidered in solid gray thread on black and navy shirts.
 - All other colors, Small TWRA emblem shall be embroidered in solid black thread.
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Appendix

Design: TWRA ONE COLOR
Stitches: 8215

Dimension: W 3.08 in x H 3.11 in
Color changes: 3



Page 1 of 1

1	Needle 1	2	Needle 2	3	Needle 3
	Deep Green 5584		Deep Green 5584		Deep Green 5584
R-A #122 SBP-7		R-A #122 SBP-7		R-A #122 SBP-7	
296.26 in		245.20 in		218.50 in	
3193 stc. (3196)		2600 stc. (5796)		2422 stc. (8218)	

Colors used: 1 2 3
294.75 " 245.23 " 218.52 "

Origin x ("): -1.54 +1.54 Origin y ("): +1.54 -1.54
Start/End distance: 0.00 in Trims: 18
Thread usage: 758.49" Bobbin usage: 252.83"



Design: TWRA ONE COLOR
Stitches: 8222

Dimension: W 3.08 in x H 3.11 in
Color changes: 3



Page 1 of 1

1	Needle 1	2	Needle 2	3	Needle 3
	Black 5596		Black 5596		Black 5596
R-A #122 SBP-7		R-A #122 SBP-7		R-A #122 SBP-7	
296.97 in		245.20 in		218.50 in	
3196 stc. (3199)		2600 stc. (5799)		2426 stc. (8225)	

Colors used: 1 ■ 2 ■ 3 ■
295.94 " 245.23 " 218.52 "

Origin x ("): -1.54 +1.54 Origin y ("): +1.54 -1.54
Start/End distance: 0.00 in Trims: 18
Thread usage: 759.69" Bobbin usage: 253.23"






Design: TWRA ONE COLOR
Stitches: 8222

Dimension: W 3.08 in x H 3.11 in
Color changes: 3



Page 1 of 1

1 	Needle 1 Pearl Grey 5640 R-A #122 SBP-7 296.97 in 3196 stc. (3199)	2 	Needle 2 Pearl Grey 5640 R-A #122 SBP-7 245.20 in 2600 stc. (5799)	3 	Needle 3 Pearl Grey 5640 R-A #122 SBP-7 218.50 in 2426 stc. (8225)
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Colors used: 1 2 3
295.94 " 245.23 " 218.52 "

Origin x ("): -1.54 +1.54 Origin y ("): +1.54 -1.54
Start/End distance: 0.00 in Trims: 18
Thread usage: 759.69" Bobbin usage: 253.23"







Design: TWRA ONE COLOR
Stitches: 10442

Dimension: W 3.78 in x H 3.69 in
Color changes: 4



Page 1 of 1

1 	Needle 1 Black 5596 R-A #122 SBP-7 296.97 in 3196 stc. (3199)	2 	Needle 2 Black 5596 R-A #122 SBP-7 245.20 in 2600 stc. (5799)	3 	Needle 3 Black 5596 R-A #122 SBP-7 218.50 in 2426 stc. (8225)	4 	Needle 1 Black 5596 R-A #122 SBP-7 277.76 in 2220 stc. (10445)
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Colors used: 1 ■ 2 ■ 3 ■
573.77 " 245.23 " 218.52 "

Origin x ("): -1.85 +1.89 Origin y ("): +1.54 -2.13
Start/End distance: 0.00 in Trims: 19
Thread usage: 1037.52" Bobbin usage: 345.84"

