

LEGAL NOTICE
TOWN OF BRANFORD
REQUEST FOR BIDS

NFPA Compliant Structural Firefighting Coat and Pants

The Town of Branford is requesting bid proposals for the purchase of NFPA Compliant Structural Firefighting Coat and Pants for a two year contract period ending fiscal year 2021 and 2022. Specifications may be obtained from the Finance Department, Branford Town Hall, 1019 Main Street, Branford, CT or on the Town's website at www.branford-ct.gov.

Bids are to be submitted in a sealed envelope marked "**NFPA Compliant Structural Firefighting Coat and Pants**" to the Finance Department, Attention, Purchasing Clerk, 1019 Main Street, Branford, CT 06405 by 1:00PM on October 9, 2020. No bids will be accepted after that date and time. Bids will be publicly opened at 1:30PM at the Branford Fire Headquarters Community Room, 2nd Floor 45 North Main St Branford, CT 06405. Face coverings are required in order to enter the building.

Requests for information or questions regarding this bid should be directed to Craig O'Rourke, Fire Captain, Email: corourke@branfordfire.com or by phone at 203-488-7266.

The Board of Selectmen or the majority reserves the right to select or reject any and/or all bids containing alternate proposals, to waive any informality in proposals and to reject any and/or all bids or accept such bid as shall, in their judgment, be in the best interest of the Town of Branford.

Tyechia Pettway
Purchasing Clerk

TOWN OF BRANFORD, CONNECTICUT

BRANFORD FIRE DEPARTMENT

**45 North Main St
Branford, CT 06405**

Specifications for NFPA Compliant Structural Firefighting Coat and Pants

GENERAL INFORMATION

PURPOSE & SCOPE

This specification defines the minimum requirements for structural firefighting personal protective equipment (PPE) providing limited protection as defined by NFPA 1971, Standard on Protective Ensemble for Structural Fire Fighting, Current Edition. In the absence of comment on a particular point, industry standard practice shall be presumed to prevail. Every exception to specifications must be clearly identified in each bidder's submission. All Bids shall meet or exceed the specifications below.

Current NFPA Standards applicable to this product specification shall express values for measurement in U.S. (inch-pound) followed by SI unit (metric) approximate equivalents. The manufacturer must certify the garments proposed in its bid meet or exceed all requirements of NFPA 1971 (Current Edition). The manufacturer must also list and label this product with Underwriters Laboratories Inc. (UL) or Safety Equipment Institute (SEI), as the third party certification organization prescribed in NFPA 1971. All certification testing and test preconditioning must have been performed by an ISO 17025-certified laboratory. UL, SEI or a UL Authorized Client Test Data Program laboratory will fulfill this requirement.

WARRANTY

The manufacturer must provide a lifetime warranty against defects in materials and workmanship with the bid package. For liability reasons, garments must be manufactured in the United States of America or Canada by companies with their assets and incorporation within the United States of America or Canada.

Does your bid meet or exceed all aspects of this section? Yes ___ No ___

LABELING REQUIREMENTS

Labels shall be permanently and integrally printed onto materials that meet all the requirements for labels of NFPA 1971. The garment shall be clearly labeled to fully identify the material content of all three layers: outer shell, moisture barrier and thermal liner. In addition, each separable outer shell component shall be labeled in an obvious location including the size, date of manufacturer and an individualized serial number and bar code that matches the corresponding garment liner.

Does your bid meet or exceed all aspects of this section? Yes ___ No ___

CARE INSTRUCTIONS

The manufacturer shall provide a user information guide for the garments, which complies with user information requirements of NFPA 1971. Topics shall include, but not necessarily be limited to: pre-use information, preparation for use, inspection frequency and details, don/doff, use consistent with NFPA 1500, maintenance and cleaning, and retirement and disposal criteria and considerations. This document shall be packaged with each garment along with a specification summary sheet describing garment custom options, sizing and production details. This written information shall be in complete compliance with NFPA 1971 requirements, and shall reference same.

Does your bid meet or exceed all aspects of this section? Yes ___ No ___

TRACEABILITY PROGRAM

The manufacturer shall have in place a computerized traceability program that provides for the assignment of a production control number to each garment. The traceability program must be capable of tracing the garment through production, from the bolts of cloth used in all three layers of the garment composite construction, to the assignment of the garment to the individual firefighter. This production control number shall be visibly located on the garment label and on other protected areas of garment.

Does your bid meet or exceed all aspects of this section? Yes ___ No ___

SIZING

To ensure a perfect fit, sizing shall be determined by actual measurements taken of the firefighter by a trained measurement specialist. Garments shall be available in custom sizing as follows: coat chest in 2-inch (5.1 cm) increments, coat sleeve in 0.5-inch (1.3 cm) increments, coat back length in 1-inch (2.5 cm) increments, pant waist in 2-inch (5.1 cm) increments and pant inseam in 1-inch (2.5 cm) increments. A full range of women’s sizing, on women’s patterns, must also be available. Each sleeve and inseam length shall provide 100% gradation from shoulder to wrist, and from hip to ankle, to provide proper fit for individual arm and leg lengths. Pattern tailoring to custom-fit neck, bicep, hip/seat and thigh circumferences must also be provided, when needed, at no additional charge. Neither Small-Medium-Large-Extra Large sizing nor women’s garments cut to men’s patterning are considered acceptable, as proper fit facilitates mobility and minimizes stress on each user. The successful bidder, in conjunction with the Fire Chief or his designee, shall establish a schedule to obtain individual measurements on members of the Branford Fire Department for their structural firefighting protective clothing. This may involve evening and/or weekend hours, and up to three (3) dates to complete; a single site shall be selected by the Fire Chief or his designee.

Does your bid meet or exceed all aspects of this section? Yes ___ No ___

PATENT CONSIDERATIONS

The Bidder, without exception, shall indemnify and save harmless the Purchaser and its employees from liability of any nature and kind, including cost and expenses for or on account of any copyrighted, patented or un-patented invention, process, or article manufactured or used in the performance of the contract, including its use by the Purchaser. If the Bidder uses any design, device, or materials covered by letters, patent or copyright, it is mutually agreed and understood without exception that the bid prices shall include all royalties or costs arising from the use of such design, device, or materials in any way involved in the work.

Does your bid meet or exceed all aspects of this section? Yes ___ No ___

CONSTRUCTION METHODS

Liner and moisture barrier shall be stitched together and turned, then topstitched, to create a self-binding edge. The extra bulk of separate binding material is specifically prohibited. All thread used in structural seams shall be Nomex® of minimum Tex size T 70. Light colored garments and trim areas shall feature yellow thread. Tan or bronze colored garments shall feature tan thread. Except for the collar Major A seam, which is single-needle lock stitched three times, all Major A & B seams (as defined by NFPA 1971) shall be double stitched, double feld throughout all three layers (outer shell, moisture barrier and thermal liner), and shall be made with Nomex® thread, minimum Tex size T 90. Also, all moisture barrier seams shall be tape-sealed to meet all requirements of the NFPA 1971 Liquid Penetration Resistance Test.

- Most Minor seams, such as storm shields and mated hems, shall also be stitched with the specified Nomex thread.
- Flat garment pockets shall be stitched with the specified Nomex® thread.
- 3-Dimensional pocketing shall feature these same construction details, but the reinforced single stitch Seam Type LSd-1 may be substituted for LSd-2.
- Stitching/Lockstitch is defined by ASTM D 6193-97.
- Trim and DANGER labels shall be stitched with the specified Nomex® thread.
- Single layer hemming and finishing shall be stitched with the specified Nomex® thread.

Regarding exterior pockets, the following requirements shall apply to all such custom option specified exterior pockets:

- All pockets and flaps shall be reinforced at the top corners with bar tack stitching.
- All pockets shall be reinforced with an extra layer of NFPA-certified outer shell, moisture barrier, or other NFPA-certified reinforcement material for extra durability. The exact location of the reinforcements shall be identified in the custom options section(s).
- All pockets shall have a means to drain water and shall have a means of closure.

- All pocket closures shall be made either with hook and loop fastener tape a minimum of 1.5 inches (3.8 cm) wide. The specific placement of the closure system shall be outlined in the custom options sections.

All garment layers and Cold Weather Accessory Linings shall be graduated in size to fit within each other in the overall composite without causing bunching or binding when the garment is worn. All points of stress shall be reinforced with sturdy bartacks. Rivets are not acceptable because of their potential for rust and electrical or heat conduction.

Does your bid meet or exceed all aspects of this section? Yes ___ No ___

ASSET TRACKING SERVICES

The manufacturer shall provide a Windows-compatible software program for the tracking of care, cleaning and maintenance of the department’s PPE. This tracking program shall meet or exceed all record-keeping requirements of standard NFPA 1851, Standard on Selection, Care, and Maintenance of Structural Fire Fighting Protective Ensembles, Latest Edition. Labels on each separable part of the garment shall include a standard style interleaved 2 of 5 barcode containing (at a minimum) an individualized serial number for asset tracking purposes. The manufacturer must be capable of providing onsite or internet training to department personnel who are involved with the daily use of this tracking program, and if there is an additional cost involved for this service, the Bidder must disclose those costs at the time of bid.

Does your bid meet or exceed all aspects of this section? Yes ___ No ___

REPAIRS & ALTERATIONS

The manufacturer shall provide on call at no charge, during normal business hours, a liaison to assist the Branford Fire Department on a telephone consultation basis, on all maintenance or repair questions that arise. Additionally, the manufacturer shall agree to expedite, on its own cost-only basis, all repairs that must be performed at the manufacturer’s plant over the life of the contract. All repairs not covered under the manufacturer’s warranty shall include a price quote prior to making any repairs.

Does your bid meet or exceed all aspects of this section? Yes ___ No ___

HIGH TEMPERATURE THERMAL INSULATING MATERIALS REQUIREMENTS

Because thermally stable materials are essential to maximizing protective performance in firefighters’ PPE, and because NFPA only states “minimum” performance requirements, all thermal liner or thermal enhancing materials used in the garments shall also meet the following criteria after the 500-degree F oven test:

- Material shall remain intact and flexible
- No portion of the material shall crack, crumble or flake

Does your bid meet or exceed all aspects of this section? Yes ___ No ___

BREATHABILITY REQUIREMENT

Excluding where required by NFPA standard, necessary for functionality, or specifically called out in the custom option sections, all materials fabrics and reinforcements used in the construction of the garments shall be breathable and all moisture barrier material must be as specified in the Materials Section. The breathability requirement includes but is not limited to: collar, chinstrap, storm shield, fly, water wells, front coat facings, and reinforcement cushioning where applicable.

Areas where non-breathability is allowed (absent Custom Option specifications): trim or other items placed externally on the arms that might need extra material to pass NFPA required Stored Energy Testing, hook and loop fastening, hardware or hardware backing, and pocket linings where used exterior to the outer shell.

Does your bid meet or exceed all aspects of this section? Yes ___ No ___

CONDUCTIVE AND COMPRESSIVE HEAT RESISTANCE (CCHR)

Using breathable materials as outlined in the section titled Breathable Materials, there shall be:

A minimum area of 4” x 4” (10.2 cm x 10.2 cm) at the shoulders and elbows that provide a minimum of 25 CCHR at 2 psi with a minimum 6” x 6” (15.2 cm x 15.2 cm) area at the knees that provide 25 CCHR at 8 psi.

In all three of these compression areas at least a portion of the protective area shall be made from high temperature fiber based materials sewn to the thermal liner on the inside of the liner toward the moisture barrier.

Does your bid meet or exceed all aspects of this section? Yes ___ No ___

APPLICABLE DOCUMENTS

The following standards in their active versions on the date of invitation for bid shall form a part of this specification to the extent specified herein.

STANDARD	TITLE
ASTM D 6193-97	Standard Practice for Stitches and Seams
NFPA 1500, Current Edition	Standard on Fire Department Occupational Safety and Health Program
NFPA 1851, Current Edition	Standard on Selection, Care, and Maintenance of Structural Fire Fighting Protective Ensembles

NFPA 1971, Current Edition Standard on Protective Ensemble for Structural Fire Fighting

Does your bid meet or exceed all aspects of this section? Yes ___ No ___

SIZING AND DELIVERY TURNAROUND TIME

In order to maintain an adequate and efficient means of providing the members of the Branford Fire Department with appropriate PPE, sizing appointments as described above shall be made within thirty (30) days of request from the Branford Fire Department. All orders shall be delivered to the Branford Fire Department not to exceed seventy five (75) days from sizing.

Does your bid meet or exceed all aspects of this section? Yes ___ No ___

STRUCTURAL FIREFIGHTING – COAT

DESIGN & PATTERN

The standard coat design shall be 6-inches (15.2 cm) longer at the rear hem than at the front hem and provide continuous and unbroken moisture barrier and thermal liner protection from the collar seam to the hem at the bottom of the coat tail. Each coat length shall be determined by each individual's torso length to provide the coat-to-pant interface as defined by NFPA 1500. Coat design must interface properly with standard waist high bunker pants. To facilitate various body types the front to rear length differential shall be made available in 3-inch (7.5cm), 4-inch (10.0cm), and 5-inch (12.5cm and 6-inch (15.0cm) Tail Drops.

Garments shall feature a tailored three-piece body (with one-piece back) and one-piece, set-in sleeve construction throughout the outer shell, moisture barrier and thermal liner layers. One-piece garment body (either all layers or some layers) will not be considered acceptable since they cannot be tailored to hard-to-fit personnel. Similarly, garments with seams in mid-back are not considered acceptable because of backbone irritation that can occur with SCBA use. To facilitate individual tailoring needs, the major A & B seams joining the one-piece back to the right and the left front body panels (outer shell and all interior layers) shall be located at the most lateral position when the coat is laid flat for inspection.

To assure maximum freedom of movement and reduce kinetic resistance with minimum garment weight and bulk, coat patterning shall include the following features:

- Degree of slope on shoulders shall be no more than 20%.
- Hydraulic Butterfly sleeve patterning having built-in underarm bellow with 85-degree Lift Up Release Action shall be provided to minimize coat hem rise.
- Sleeve attachment shall minimize shoulder lift and allow a full 360 degrees freedom of movement.
- Coat hem rise with overhead reach of both arms not to exceed 4-inch (10.2-cm) maximal extension on properly fitted garments.
- Shell-and-liner retraction at the cuff shall not exceed 1 inch (2.5 cm) when both arms are raised overhead. This helps eliminate wrist exposure.
- 10-inch (25.4-cm) chest over-sizing shall be provided.
- Coat sweep measurements must be consistent with the chest over-size at the hem.
- Reach when measured from cuff to cuff, with coat lying flat, and standard length sleeves extended to each side, shall be provided as detailed below.
- An alteration point at the hem that during manufacture allows the sweep dimension to be adjustable in two-inch (5.0cm) increments

Chest Size Standard Reach

40 in (101.6 cm)	66 in (167.6 cm)
42 in (106.7 cm)	67 in (170.2 cm)
44 in (111.8 cm)	68 in (172.7 cm)
46 in (116.8 cm)	68 in (172.7 cm)

Does your bid meet or exceed all aspects of this section? Yes ____ No ____

NFPA APPROVED DRAG RESCUE DEVICE (DRD)

Manufacturer shall supply an NFPA required and certified Drag Rescue Device (DRD) with each coat. Each strap will be properly labeled with the chest size(s) the Rescue Strap is designed to fit. Rescue Strap shall be designed in a fashion that it functionally provides a dynamic and articulated action and to eliminate excess strapping material hanging down the back when installed between the garment’s liner and outer shell. The device shall be constructed using two components: a 1.75” (4.45 cm) Kevlar webbing grab handle; and a free-floating loop of Kevlar rope to go around each of the wearer’s arms/shoulder. The grab loop shall extend upward and pass through a tunnel of outer shell and pass out through a reinforced slot in the coat outer shell just below the center rear of the collar seam. The protruding grab loop shall then fold back down and be stored by hook and loop fastener. The end of the grab loop shall be covered with an outer shell flap sewn below the held in place with hook & loop fastener to reduce the chances of snagging the grab loop by accident. Rescue Strap shall be sewn with Kevlar thread. The Grab Handle shall be constructed of soft and pliable Kevlar webbing meeting the following specifications:

- Description 100% Kevlar Double Plain Weave
- Width 1.75” (4.45 dm)
- Thickness 0.064" ± 0.010" (.163 cm ± .0254 cm)
- Tensile 5,000 lb. minimum (22.24 kN)

To facilitate comfort and safety the free-floating loop shall be constructed of soft and pliable Kevlar rope meeting the following specifications:

- Description 100% Kevlar Tubular Plain Weave - Natural
- Width .038” (.097 cm)
- Thickness 0.144" ± 0.005" (.366 cm ± .013 cm)
- Tensile 3500 lb. minimum (15.57 kN)

Does your bid meet or exceed all aspects of this section? Yes ____ No ____

LINER ATTACHMENT

The completed liner-moisture barrier assembly shall attach by means of four (4) evenly spaced glove snaps to each outer shell front facing to reduce weight, bulk and stiffness. To provide continuous moisture and pathogen protection at the front, the liner shall be positioned so it is sandwiched between the coat front facing and a breathable pathogen shield. The use of zippers or hook and loop fasteners in this area is not allowed due to their added weight, bulk and stiffness. Liner sleeves shall be attached at the cuff by means of snaps on two (2) sets of Nomex tabbing per liner cuff. The male and female snap parts shall both be located on Nomex tabbing that is sewn to the liner at the cuff. A separate piece of Nomex tabbing shall be sewn to the shell cuff and fashioned as a loop without any snap hardware. To provide continuous moisture protection and pathogen protection at the neck, the liner shall be positioned so that it is sandwiched between an outer-facing pathogen shield and an inside facing of the specified outer shell material. Attachment at the neck shall be by means of four (4) glove straps that penetrate only the layer of the attachment strip facing towards the liner, so that metal contact at a wearer's neckline is completely eliminated.

Does your bid meet or exceed all aspects of this section? Yes ____ No ____

CERTIFICATIONS

The coat certification label on the liner shall be affixed to the inside right body panel of the liner in a fashion to provide an inside liner pocket. The coat label on the shell shall be affixed in a conspicuous location once the liner is removed.

Does your bid meet or exceed all aspects of this section? Yes ____ No ____

COLLAR & CHIN STRAP

The collar shall be of layered construction, consisting of a layer of waterproof moisture barrier and a layer of NFPA 1971-certified insulating material, sandwiched between two (2) layers of specified outer shell material. NFPA compliant collars shall be at least 3 inches (7.6 cm) high while CGSB compliant collars shall be at least 4 inches (10.2 cm) high. The design shall incorporate in its patterning a natural contour that will allow proper fit and performance in the standing (upright) or stowed position. There shall be no vertical or horizontal seams or stitching in the body of the collar. The left outside of the collar shall have a sewn piece of 2-inch x 2-inch (5.0-cm x 5.0-cm) hook fastener tape for chinstrap-to-collar closure. The fastener tape shall be located rear ward far enough to allow for the location of a forward mounted microphone tab if so desired. Each collar shall be graded to individual coat sizes.

The chinstrap shall be of layered construction identical to that of the collar configuration described in the previous paragraphs. Chinstrap shall be of a crescent shaped design with minimum dimensions of: 9 inches (22.5 cm) long across the top corners, 10.5 inches (26 cm) long across the bottom corners, and 3.5 inches (8.75 cm) in vertical height, measured at the center. The leading underside edge of the chinstrap shall have a 4.0-inch-wide (3.8 cm-wide) horizontal strip of loop fastener tape to ensure an adequately adjustable closure and to ensure

passage of the Whole Garment Liquid Penetration Test. An 80-pound (36.3 kg) tear strength hang-up loop shall be provided at the interior collar seam.

The loop shall be constructed of triple layers of the specified outer shell material, lockstitched to the coat. Webbing is not acceptable.

Does your bid meet or exceed all aspects of this section? Yes ___ No ___

SLEEVES, INNER/EXTERNAL WRISTLET & WATERWELL

To prevent stove-piping the sleeves shall be individually graded by coat size and sleeve length. For maximum freedom, the sleeve design shall feature extra full cut one-piece set-in sleeves with built-in bellows. To reduce the chances of possible top seam failure in that high thermal exposure area, the sleeve Major seams shall follow the underside of the arm and shall not cross over the outside of the elbow joint. Sleeve seam and sleeve attachment to coat body in all layers shall be 100% double feld and double stitched for maximum. Every coat shall feature a 2.5-inch (6.4 cm) long knit outer wristlet, which shall be mounted to the end of each outer shell sleeve to prevent liquid and debris movement up the sleeve between the outer shell and the moisture barrier/ thermal liner assembly.

Every coat shall feature a minimum 4.5-inch (11.4-cm) long, double-layer knit inner wristlets protected by a flame-resistant and moisture-resistant inner waterwell. The inner wristlet shall be sewn to the thermal liner sleeve end (not to the outer shell). The specified moisture barrier shall form an inner waterwell with an elastic gather sewn to the moisture barrier sleeve end.

Does your bid meet or exceed all aspects of this section? Yes ___ No ___

FRONT CLOSURE WITH PROTECTIVE OVERLAP

Two-inch-wide (5.1 cm-wide) panels of breathable moisture/ pathogen barrier and specified thermal liner materials shall be provided at coat front closure facings to preclude any type of break in the protective envelope. The entire circumference of a closed coat shall consist of specified shell, moisture barrier and thermal liner materials. An additional layer of breathable moisture/ pathogen barrier material shall be sewn between the 2-inch-wide (5.1 cm-wide) panels and outer shell coat body for the entire length of coat front in a fashion to prevent liquid entry during the NFPA 1971 Whole Garment Liquid Penetration Test.

Does your bid meet or exceed all aspects of this section? Yes ___ No ___

COMPOSITE MATERIALS

The specifier has determined the ONLY acceptable combination of materials. Any substitution of materials shall be grounds for immediate disqualification of bid without further consideration.

Outer shell: 7.0 oz.; Comfort-Twill; 65% Kevlar / 35% PBI – BLACK

Thermal lining: 7.4 oz. - 86% Kevlar Filament, 14% Nomex /FR Rayon Spun Yarn; 2 Layers E89 (Berry Compliant)

Moisture barrier: Crosstech Black Type 2F 100%Nomex IIIA woven Pajama-check, 4.7 osy (Berry Compliant).

Does your bid meet or exceed all aspects of this section? Yes ____ No ____

COAT CUSTOM OPTIONS TO BE PROVIDED

Instructions in this custom options section that contradict earlier specifications or statements supersede those earlier specifications or statements as long as the required certifications are not compromised. The following is specific to the Branford Fire Department:

REENGINEERED

Std – Reinforced Coat Cuffs

Std -Inspection Port Liner

Std-Liner detachable

Std -SET Thermal Enhancement

Std -Liner Label Pocket

Std -Wristlets- Long Hybrid with tabs – Nomex with firefighter option for thumbhole wristlet

Std -Trim - Double-Stitched

Std DRD

Firefighter Trim – NFPA 3” 3M Scotchlite Comfort Trim two tone Lime

< BRANFORD > - Lime 3”inch letters placed directly on upper back of coat

Hem Patch – PBI Max 7.0 – BLACK (No Exceptions)

FF LAST NAME ONLY - avg. 7 letters – Lime - ok to use 2" letters to fit. *

Department reserves the right to specify RANK on Rear of Coat for CHIEF, ASSISTANT CHIEF, DEPUTY CHIEF, CAPTAIN, LIEUTENANT, or other similar rank

*Last Names shall be sewn onto patch which shall be attached to tail of coat by Velcro strips also sewn into garment.

*** Trim & Lettering Color Combo is Correct ***

Zipper closure with cover secured by 2” Velcro

Free hanging neck cover

Reinforced Coat Cuffs – PBI Max 7.0 - BLACK

No Take Up Straps on coat

Large Flashlight Tab w/Velcro Strap

Semi bellows Coat Pockets with fleece lined pockets- PBI Max 7.0 –Black - 8 x 8 x 2

Mic Tab – PBI Max 7.0 – Black - left chest - 0.5" x 2.5" 3" down from shoulder seam

Radio Pocket – PBI Max 7.0 – Black - Left chest – 8" X 3" X 2"

All Pockets will be reinforced with Kevlar liners

Does your bid meet or exceed all aspects of this section? Yes ___ No ___

STRUCTURAL FIREFIGHTING – PANT

DESIGN STYLE & PATTERN REQUIREMENTS

The pant shall be of a traditional waist-high-only design to facilitate full torso ventilation of front, rear and sides of trunk for maximum body cooling effect to help minimize firefighter heat stress. For this reason, other than waist-high pants shall not be considered acceptable or “equal,” since additional trunk wrapping traps heat and moisture, increasing heat stress buildup while also creating mechanical resistance when covering the natural torso flexion point of the waist.

Garments shall feature a tailored four-piece body plus a one-piece, over-sized crotch diamond pattern in the outer shell, moisture barrier and thermal liner. To assure maximum freedom of movement and reduced kinetic resistance with minimum garment weight and bulk, the pants patterning shall:

- Incorporate hydraulic, swivel action leg-to-torso interfaces.
- Incorporate an oversized diamond-shaped crotch insert, graded according to size, for maximum action stride, optimum stepping reach and no “in-crotch” seaming.
- In the outer seam hip area, in all three layers shall, incorporate convex seam technology to provide for generous seat expansion when squatting and crawling without creating unsightly bagginess.
- That the diamond extend from just above the left knee to just above the right knee, and be centered equally from front to rear. Width of diamond at top of crotch shall be approximately proportionally graded to waist size and inseam length.
- Ensure that pants rest in normal body line balance of 22 inches (55.9 cm) center distance at the cuff for 42 waist, 30 inseam pants.

- Provide for an alteration point at the hips so that during manufacture the hip dimension can be adjustable in two-inch (5.0cm) increments

Does your bid meet or exceed all aspects of this section? Yes ___ No ___

SUSPENDER BUTTONS

Eight (8) heavy duty, rust-resistant suspender buttons shall be positioned around the waist. Suspender buttons shall be mounted through waistband of triple layer outer shell material that is internally reinforced with an additional band of coated needle punch aramid.

Does your bid meet or exceed all aspects of this section? Yes ___ No ___

PANT LINER ATTACHMENT

The moisture barrier and thermal liner assembly shall be attached to the outer shell at the waistband with seven (7) evenly-spaced glove snaps. Liners shall be attached at the cuff by means of snaps on two (2) sets of Nomex tabbing per liner cuff. The male and female snap parts shall both be located on Nomex tabbing that is sewn to the liner at the cuff. A separate piece of Nomex tabbing shall be sewn to the shell cuff and fashioned as a loop without any snap hardware.

Does your bid meet or exceed all aspects of this section? Yes ___ No ___

CERTIFICATIONS

The pant certification label on the liner shall be affixed to the inner left hip area of the liner. The pant label on the shell shall be affixed to the facing at the fly.

Does your bid meet or exceed all aspects of this section? Yes ___ No ___

FLY FRONT

The outer shell fly shall be lock stitched to the left side of the front opening and shall be in proportion to waist size and crotch rise in both length and width. Fly inner lining shall extend at least 2 inches (5.1 cm) to the left of the outer shell fly attachment seam and shall be constructed of certified breathable moisture barrier and thermal liner. The right front pant opening shall have an internal facing extending at least 2 inches (5.1 cm) to the right and constructed of specified fabric. In combination with the liner, the system shall offer 360 degree protection without gaps during movement of the outer shell moisture barrier and thermal liner. Closure shall be by means of a minimum 1.5-inch-wide (3.8-cm-wide) hook and loop fastener, and all construction techniques used shall provide liquid penetration protection under the NFPA 1971 Whole

Garment Liquid Penetration Test. The fly shall be graded to the waist size of garments and crotch rise.

Does your bid meet or exceed all aspects of this section? Yes ___ No ___

COMPOSITE MATERIALS

The specifier has determined the ONLY acceptable combination of materials. Any substitution of materials shall be grounds for immediate disqualification of bid without further consideration.

Outer shell: 7.0 oz.; Comfort-Twill; 65% Kevlar / 35% PBI – BLACK

Thermal lining: 7.4 oz. - 86% Kevlar Filament, 14% Nomex /FR Rayon Spun Yarn; 2 Layers E89 (Berry Compliant)

Moisture barrier: Crosstech Black Type 2F 100% Nomex IIIA woven Pajama-check, 4.7 oz (Berry Compliant).

Does your bid meet or exceed all aspects of this section? Yes ___ No ___

PANT CUSTOM OPTIONS TO BE PROVIDED:

Instructions in this custom options section that contradict earlier specifications or statements supersede those earlier specifications or statements as long as the required certifications are not compromised. The following is specific to the Branford Fire Department:

Does your bid meet or exceed all aspects of this section? Yes ___ No ___

REENGINEERED

Std Pant Cuffs – PBI Max 7.0 – BLACK (No Exceptions)

Std -Inspection Port Liner

Std -Liner Detachable

Std -Trim - Double-Stitched

Firefighter Trim - NFPA 3” 3M Scotchlite Comfort Trim two tone Lime

Wide Fly - 2" Velcro w/integrated Class II Harness with carabineer and D –Ring for bailout system connection with firefighter option of left or right sided deployment

Reinforced Cuffs Ara-shield - BLACK

In order to protect the firefighter while crawling or kneeling, list options for knee protection. The option that meet the needs of the Branford Fire Department will be selected prior to contract– PBI Max 7.0 – BLACK (NO EXCEPTIONS)

Knees to be Ara-shield – BLACK

Raise Knees 1" Above Standard Location

Bellows Pockets - Gemini XT - Black - 9" x 9" x 2.5" with Kevlar liners and Ara-Shield protection

Padded "H" Suspenders w/ Quick Adjust and snaps Installed

Does your bid meet or exceed all aspects of this section? Yes ____ No ____

TOWN OF BRANFORD
Bid Proposal Sheet

Bid Proposal for: **NFPA Compliance Structural Firefighting Coat and Pants**
A copy of the specification shall be attached to this proposal

We hereby propose to furnish all labor and materials required by the contract documents as follows:

Total Price Per Set:

	Ending F/Y 2021	Ending F/Y 2022
Coat	\$ _____	\$ _____
Pant	\$ _____	\$ _____

Company Name: _____

Company Address: _____

Signature of Authorized Representative

Date

Title

Bid Bond Required	NO
Bid Bond Enclosed (if required)	NO
Performance Bond Required	NO

TOWN OF BRANFORD
OFFICE OF THE TREASURER



1019 Main Street
Post Office Box 150
Branford, CT 06405

(203) 488-8394
FAX: 315-3736

**General Requirements for Bidding
and
Instructions to Bidders**

NOTICE

Information provided in these specifications is ***CONFIDENTIAL*** and is to be used only for the purpose of preparing a proposal. It is further expected that each bidder will read these specifications with care, for failure to meet every one or a combination of specified conditions may invalidate the proposal.

The Town reserves the right to reject any or all bids or any portion thereof and to accept the bid deemed to be in the best interest of the Town of Branford.

Bidders are requested to submit quotations on the basis of these specifications. Alternate quotations will receive consideration providing such alternatives are clearly explained.

The information contained herein is believed to be accurate and is based upon the latest available information but is not to be considered in any way as a warranty.

Revised 5/2012
Standard Form

SECTION I - General Terms and Conditions

A. Compliance with Laws

The bidder shall at all times observe and comply with all laws, ordinances and regulations of the federal, state and local governments, which may in any way affect the preparation or the performance of the contract.

B. Timetable

Price quoted must be valid for **60** days. Delivery and installation completion dates must be included in the bid proposal.

C. Consideration of Proposals

The Board of Selectmen, or a majority of them, reserve the right to select or reject alternate proposals; to waive informality in proposals; and to reject any and all bids, or accept such bid as shall in its judgement be to the best interest of the Town of Branford.

D. Bid Bond *NOT REQUIRED*****

1. A certified check or bank draft made payable to the “Treasurer, Town of Branford”, or a satisfactory bid executed by the bidder and a surety company in an amount no less than five percent (5%) of the base bid, may be required with each proposal.
2. Checks or drafts will be returned to unsuccessful bidders within ten (10) business days of the bid award.

E. Performance Bond *NOT REQUIRED*****

Successful bidders may be required to furnish a Performance and Payment Bond in the amount of 100% of the contract sum.

F. Protection of Work and Property

Successful bidders shall be responsible for protection of their equipment and materials against theft, damage or deterioration on the site.

G. Competency of Bidders

1. Bidders shall have had proven experience in the field of work.
2. Bidders shall submit with their bid a listing of recent work performed within the State of Connecticut of the size equal to or greater than the work being bid. ****NOT REQUIRED****

H. Alternates

1. Any alternates to specified materials or workmanship must be separately listed and described in detail.
2. Alternates will be considered in awarding the contract only if they provide, as a minimum requirement, all features contained in the specifications.
3. The Town of Branford reserves the sole right to determine through its agents the equality of alternate products and/or installation procedures.

I. Bid Requirements

1. Each bidder shall return two (2) copies of the proposal sheet entitled “Bid Proposal”. Each bid proposal must be signed by an authorized agent of the bidder.
2. Each bidder must complete and have notarized the “Non-Collusion Affidavit of Bidder” form. This form must accompany all bids being submitted.
3. Each bidder must be in good standing with the Town of Branford.
4. Successful bidders must obtain any required governmental approvals.

J. Specifications – General

The contract shall include all labor and materials, tools and equipment and services required for proper performance of the work as specified hereinafter and as may be required for proper completion of the work in accordance with the highest standards of the trades involved.

K. Examination of Site

Prior to submission of the bid, contractor shall visit the site, consult with the supervisor, and become thoroughly familiar with all conditions under which the work will be installed. The contractor will be responsible for any assumptions made regarding the site for the work to be performed.

SECTION II - Insurance Requirements

Bidder shall agree to maintain in force at all times during which services are to be performed the following coverages and shall name the Town of Branford as an Additional Insured on a primary and non-contributory basis to the Bidder’s Commercial General Liability and Automobile Liability policies. **These requirements shall be clearly stated in the remarks section on the bidders Certificate of Insurance.** Insurance shall be written with Carriers approved in the State of Connecticut and with a minimum Best’s Rating of A-. In addition, all Carriers are subject to approval by the Town of Branford.

		(Minimum Limits)
General Liability	Each Occurrence	\$1,000,000
	General Aggregate	\$2,000,000
	Products/Completed Operations Aggregate	\$2,000,000
	-Include Waiver of Subrogation	
Auto Liability	Combined Single Limit	
	Each Accident	\$1,000,000
Umbrella (Excess Liability)	Each Occurrence	\$1,000,000
	Aggregate	\$1,000,000
Workers’ Compensation and Employers’ Liability	WC Statutory Limits	
	EL Each Accident	\$500,000
	EL Disease Each Employee	\$500,000
	EL Disease Policy Limit	\$500,000

If any policy is written on a “Claims Made” basis, the policy must be continually renewed for a minimum of two (2) years from the completion date of this contract. If the policy is replaced and/or the retroactive date is changed, then the expiring policy must be endorsed to extend the reporting periods for claims for the policy in effect during the contract for two (2) years from the completion date.

Original, completed Certificates of Insurance must be presented to the Town of Branford prior to purchase order/contract issuance. Bidder agrees to provide replacement/renewal certificates at least 60 days prior to the expiration of the policy.

Hold Harmless Requirements

The contractor shall, at all times, indemnify and save harmless the Town of Branford, its officers, agents, and servants on account of any and all claims, damages, losses, litigation expense, counsel fees and compensation arising out of injuries (including death) sustained by or alleged to have been sustained by the public, any or all persons affected by the contractor’s work, or by the contractor, any subcontractor, material, men or anyone directly or indirectly employed

by them or any one of them while engaged in the performance of this contract. The Town of Branford shall be named as an additional insured on said policy of public liability insurance to cover all claims against the Town arising out of said contract.

NON-COLLUSION AFFIDAVIT

State of: _____

County of: _____, SS)

_____ ; being first duly sworn, deposes and says that:

- 1) S/he is (owner, partner, officer, representative or agent) of _____ , the Bidder that has submitted the attached Proposal:
- 2) S/he is fully informed regarding the preparation and contents of the attached Proposal and of all pertinent circumstances regarding such Proposal:
- 3) Such Proposal is genuine and is not a collusive or sham Proposal:
- 4) Neither the said Bidder nor any of its officers, partners, owner, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived, or agreed, directly or indirectly with any other Bidder, firm or person to submit a collusive or sham Proposal in connection with the Contract for which the attached Proposal has been submitted or to refrain from bidding in connection with such Contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Bidder, firm or person to fix the price or prices in the attached Proposal or of any Bidder, or to fix any overhead, profit or cost element of the bid price or the bid price of any other Bidder or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage with the Owner or any person interested in the proposed Contract.
- 5) The price quoted in the attached Proposal is fair and proper and is not tainted by collusion, conspiracy, connivance or unlawful agreement on the part of the Bidder or any of its agents, representatives, owners, employees, or parties in interest.

Signed: _____

Title: _____

Subscribed and sworn before me this _____ day of _____ , 20 _____ .

Notary Public: _____

My Commission expires _____ , 20 _____ .