

UNITED STATES COAST GUARD
PURCHASE DESCRIPTION
EMBROIDERED SLEEVE AND COLLAR
RANK, BRAID AND SPECIALTY INSIGNIA

The Coast Guard has approved Insignia, Sleeve and Collar, Embroidered, Rank, Grade, and Specialty for the Service Dress Blue Coat, Dinner Dress Jacket. The requirements for machine and hand embroidered insignia worn on the sleeve of enlisted personnel are as follows:

1. **Design Classification:** Embroidered insignia shall be of the following types and classes:

Type I – Rating Badge

Class 1 – Chief Petty Officer

Class 2 – Petty Officer First Class

Class 3 – Petty Officer Second Class

Class 4 – Petty Officer Third Class

Class 5 – Senior Chief Petty Officer

Class 6 – Master Chief Petty Officer

Class 7 – Master Chief Petty Officer of the Coast Guard

Type II – Specialty Mark and Striker Mark

Type III – Group Rate Mark

Class 1 – One Stripe

Class 2 – Two Stripes

Class 3 – Three Stripes

Class 4 – Combined

Type IV – Length of Service Stripe

Type V – Branch of Service Shield

Type VI – Grade Star

2. **Description:** The insignia specified in this specification shall be machine embroidered on Schiffli type embroidery machines with rayon yarn in accordance with the applicable Government stitch enlargements, or hand embroidered with metallic (bullion) or synthetic embroidery materials in accordance with approved guide samples.
3. **Basic Material:** The basic material to be used as a background for embroidered designs shall be wool serge. The blend shall consist of fleece wool, pulled wool, or any other combination thereof not lower in grade than 11.3 ounce – 64's U.S. Standard and polyester top or cut tow. The polyester stock shall be semi-dull and the minimum average fiber length shall be 3 inches. The denier shall be suitable to blend adequately with the specified wool grade and meet the requirements of this document. Wool yarns shall be spun on the long staple worsted system. Minimum average fiber length shall be 3 inches. The use of laps, noils, or any other wool manufacturing by-products and polyester fiber waste is prohibited. The finished cloth shall consist of a polyester fiber percentage of 55 minimum and 60 maximum and a minimum wool fiber percentage of 40 based on the oven-dried weight when tested using test method AATCC 20A. The color shall match Coast Guard Blue 3362.

4. **Thread Color:** Thread color for the rayon embroidery yarn shall be the following cable number, in accordance with the Department of Defense Standard Shades for Heraldic Yarns for Embroidery and Ribbons as shown below. The use of sulphur dyes is prohibited. The dyed yarn shall show good colorfastness to wet-dry cleaning, bleaching, dry and wet heat (hot pressing), light, and laundering:

White:	Cable No. 67101
Cardinal Red:	Cable No. 67155
Emerald Green:	Cable No. 67128
Black:	Cable No. 67138

NOTE: The dyed yarn shall match the standard sample when viewed under filtered tungsten lamps which approximate artificial daylight having a correlation color temperature of 7500 ± 200 K, with illumination of 100 ± 20 candles, and shall be a good match to the standard sample under incandescent lamplight at 2300 ± 200 K.

5. **Yarns:** All yarns shall be polyester (with abundant luster), bright, continuous filament, embroidery yarn 75/3 (± 5) denier yarn. All yarns shall be durable, and compatible with end items intended use. All yarns shall show good colorfastness to light, laundering, wet-dry cleaning, and all other applicable care instructions of end item.
6. **Schiffli Bobbin Thread:** The bobbin thread used in Schiffli embroidery shall either be a good commercial grade of two-ply (minimum) undyed cotton thread or a continuous filament undyed (white) nylon thread equal to or better than the quality of the specified cotton thread.
7. **Cotton Thread:** The white or colored thread used for general stitching operations shall conform to the requirements of A-A-52094 as specified in table I. In addition, the colored threads shall show good colorfastness to dry and wet heat (hot pressing). Unless otherwise specified the color of the thread shall match the color of the background cloth for Type I, Type II, Type III, Type IV, and Type V. Type V Branch of Service Shield shall be black. As an alternate, the gold thread may conform to Type I of A-A-50199.

Table I – Threads

Type	Ticket Number		Operations
	Needle	Lower	
I	40	-	Attaching metallic embroidery materials by hand
III	00	00	Hemming and cover stitching (white)
III	00	00	Hemming, attaching gold lace, cover stitching (color)

8. **Embroidery Materials, Metallic, and Synthetic Metallic:** The embroidery materials shall conform to the requirements for type I, II, III, Classes 1 thru 6 of MIL-E-17568
9. **Ornamental Lace:** The gold lace used for stripes and chevrons shall conform to the requirements for type II, style A, class 2 thru 5, 3/8 inch width, one vellum of MIL-L-17507. The color shall match Gold 3903.
10. **Buckram.** The cotton buckram used as backing shall be natural or bleached white, plain weave, and shall have 50 (+3) picks and ends per inch and the weight shall be 4.8 (± 1.0) ounces per square yard.
11. **Buckram Backing:** Unless otherwise specified, buckram backing shall be used to reinforce hand embroidered bullion or synthetic metallic stars, eagle, specialty mark, and shield of rating badge. Sewn on gold lace chevrons and service stripes.

12. **Stiffener:** When needed, hand embroidered insignia may be treated on the reverse side with a stiffener to facilitate processing or to prevent raveling of the yarn. The stiffener shall not affect the color of the face of the insignia or the background fabric while in storage.
13. **Stabilizer:** A stabilizer may be used provided it can be laundered in accordance with the end item care instructions and allows for assembly of the device as detailed in paragraph 7.
14. **Fiberboard Form:** When needed, the form used to raise the design of hand embroidered metallic insignia shall be a commercial grade fiberboard of suitable thickness and shall be free of sulphur. The face side of the board shall be of a color to approximately match the color of the embroidery material covering it.

Table II – Thread Color for Rating Badge Design

Design Name/ Color Combo Code	Thread Type/Color by Design Feature			
	Eagle	Specialty Mark	Chevrons	Stars
CG-06 (E-10)	Silver Bullion or Synthetic Metallic	Gold Bullion or Synthetic Metallic	Gold Synthetic Lace	Gold Bullion or Synthetic Metallic
CG-01 (E-7 thru E-9)	Silver Bullion or Synthetic Metallic	Silver Bullion or Synthetic Metallic	Gold Synthetic Lace	Silver Bullion or Synthetic Metallic
CG-02 (E-4 thru E-6)	White	White	Cardinal Red	N/A
CG-03 (Non-Rate)	N/A	White	N/A	N/A
CG-04 (Non-Rate)	N/A	White	N/A	N/A
CG-05 (Non-Rate)	N/A	White	N/A	N/A

Table III – Color for Striker Mark, Group Rate, Service Stripe, and Shield

Design Name/ Color Combo Code	Thread Type/Color by Design Feature			
	Striker Mark Specialty	Group Rate	Service Stripe	Shield
CG-06 (E-10)	N/A	N/A	Gold Synthetic Lace	Gold Bullion or Synthetic Metallic
CG-01 (E-7 thru E-9)	N/A	N/A	Gold Synthetic Lace	Gold Bullion or Synthetic Metallic
CG-02 (E-4 thru E-6)	N/A	N/A	Cardinal Red	Gold Bullion or Synthetic Metallic
CG-03 (Non-Rate)	White	White	N/A	Gold Bullion or Synthetic Metallic
CG-04 (Non-Rate)	White	Cardinal Red	N/A	Gold Bullion or Synthetic Metallic
CG-05 (Non-Rate)	White	Emerald Green	N/A	Gold Bullion or Synthetic Metallic

15. **Stitch Types and Stitches per Inch:** Stitch types shall conform to FED-STD-751. Stitch type 301 used for hemming shall be 1/8 (\pm 1/32) inch from the edge. Stitch type 304 used for cover stitching shall be 1/8 (\pm 1/32) inch wide. Stitches per inch shall be 12 to 14 for general stitching and 45 to 48 for cover stitching.

16. **Ground and Overlay Stitches:** The ground and overlay stitches shall be executed in accordance with the applicable stitch enlargement, and shall completely cover the prescribed background design area in a closely, densely, and tightly drawn manner to produce a clear, sharp execution of the design with none of the background cloth or underlay stitches visible.
17. **Underlay Stitches:** Underlay stitches, where required, shall be inserted in the direction and manner most suitable for proper design execution and shall not be less than the number indicated on the applicable stitch enlargement. The raised areas of the design where underlay is required shall be equal to the guide sample in fullness and depth.
18. **Stiele Border Stitches:** When required, Stiele border stitches shall be executed in accordance with the applicable stitch enlargement or guide sample and shall be tightly drawn and well executed to produce a clear, sharp border and shall completely cover the background embroidery and cloth.
19. **Hand Construction with Metallic (Bullion) and/or Synthetic Metallic Embroidery Materials:** When the eagle, stars, specialty marks, and shield are constructed by hand with metallic (bullion) and/or synthetic metallic embroidery materials, the design shall be produced using materials specified in paragraphs 8, 11, 12, 14, and Tables II and III.
20. **Chevron (Rating Badge) and Marks (Group Rate):** Stitch execution of chevrons and marks shall be of the ground embroidery type. The number of visible rows shall be as indicated in the applicable stitch enlargement. The edges of each chevron and mark shall be finished with a 1/16 inch wide Stiele border stitch.
21. **Design Dimensions:** Construction requirements and design dimensions for Schiffli and hand embroidered insignia shall be in accordance with the standard set in Table IV Stitch Requirements, and Table V Stitch Requirements for Hand Embroidery.

Table IV – Stitch Requirements

Design Type and Class	Minimum Number of Stitches	Figure Number 2/	Stitch Enlargement Drawing Number 3/	Finished Sizes in Inches		Tolerance		
				Width	Height	Width	Height	
Rating Badges								
Type I, Class 2, Petty Officer, First Class	6980 1/	5	16-1-372	4	5 7/8	±5/32	±3/16	
Type I, Class 3, Petty Officer, Second Class	6268 1/	6	16-1-372	4	5 1/8	±5/32	±3/16	
Type I, Class 4, Petty Officer, Third Class	5556 1/	7	16-1-372	4	4 3/8	±5/32	±3/16	
Type II Specialty Mark or Striker Mark								
Aviation Maintenance Technician (AMT)	960	8	16-1-288	2 7/8	1 7/8	±3/32	±1/16	
Aviation Survival Technician (AST)	1439	8	16-1-135	2 7/8	1 7/8	±3/32	±1/16	
Avionics Technician (AVT)	825	8	16-1-208	2 7/8	1 7/8	±3/32	±1/16	
Boatswain’s Mate (BM)	580	8	16-1-293	2	2	±3/32	±3/32	
Chaplain		8		2	2	±3/32	±3/32	
Damage Controlman (DC)	405	8	16-1-442	2	2	±3/32	±3/32	
Diver		10		23/32	1 1/16	±3/32	±3/32	
Electrician’s Mate (EM)	1280	8	16-1-204	2	2	±3/32	±3/32	
Electronics Technician (ET)	450	8	16-1-221	2	2	±3/32	±3/32	
Food Service Specialist (FS)	641	9	16-1-444	2	2	±3/32	±3/32	
Gunner’s Mate (GM)	515	9	16-1-307	2	2	±3/32	±3/32	

Table IV – Stitch Requirements (Continued)

Design Type and Class	Minimum Number of Stitches	Figure Number 2/	Stitch Enlargement Drawing Number 3/	Finished Sizes in Inches		Tolerance	
				Width	Height	Width	Height
Type II Specialty Mark or Striker Mark (Continued)							
Health Services Technician (HS)	685	9	16-1-203	2	2	±3/32	±3/32
Information Specialist (IT)	1160	9	16-1-308	2	2	±3/32	±3/32
Intelligence Specialist (IS)		9		2	2	±3/32	±3/32
Investigator (IV)	884	9	16-1-614	2	2	±3/32	±3/32
Machinery Technician (MK)	690	9	16-1-303	2	2	±3/32	±3/32
Marine Science Technician (MST)	615	9	16-1-134	2	2	±3/32	±3/32
Maritime Enforcement (ME)	1215	10		2	2	±3/32	±3/32
Musician (MU)	510	10	16-1-317	2	2	±3/32	±3/32
Operations Specialist (OS)	410	10	16-1-324	2	2	±3/32	±3/32
Public Affairs Specialist (PA)	594	10	16-1-443	2	2	±3/32	±3/32
Storekeeper (SK)	550	10	16-1-332	2	2	±3/32	±3/32
Yeoman (YM)	300	10	16-1-210	2	2	±3/32	±3/32
Type III Group Rate Mark							
Class 1 – One Stripe	890	12	16-1-15	3 1/8	2 5/16	±1/8	±3/32
Class 2 – Two Stripes	1780	12	16-1-15	3 1/8	2 15/16	±1/8	±3/32
Class 3 – Three Stripes	2670	13	16-1-15	3 1/8	3 1/2	±1/8	±3/32
Class 4 – Combined		14		2 1/2	5 1/2	±1/8	±3/32
Type IV Length of Service Stripe (Cardinal Red)							
One Stripe	2247	14	16-1-447	6	7/8	±7/32	±1/16
Two Stripes	4494	14	16-1-447	6	1 1/2	±7/32	±1/16
Three Stripes	6741	14	16-1-447	6	2 1/8	±7/32	±3/32
Four Stripes	8988	14	16-1-447	6	2 3/4	±7/32	±3/32
Five Stripes	11235	14	16-1-447	6	3 3/8	±7/32	±1/8
Six Stripes	13482	14	16-1-447	6	4	±7/32	±5/32
Seven Stripes	15729	14	16-1-447	6	4 5/8	±7/32	±5/32
Eight Stripes	17976	14	16-1-447	6	5 1/4	±7/32	±5/32

1/ Exclusive of the number of stitches for the specialty mark.

2/ Figures are for dimensions only and are not drawn to scale. For the correct design and proper stitch execution refer to the applicable stitch enlargement. Unless otherwise specified, all dimensions are in inches.

3/ MIL-I-87097 is hereby added as additional reference for drawing.

Table V – Stitch Requirements for Hand Embroidery

Design Type and Class	Figure Number 1/	Finished Sizes		Tolerance	
		Width	Height	Width	Height
Type I					
Class 1, Chief Petty Officer	4	4	5 7/8	±5/32	±3/16
Class 5, Senior Chief Petty Officer	3	4	7 1/4	±5/32	±1/4
Class 6, Master Chief Petty Officer	2	4	7 1/4	±5/32	±1/4
Class 7, Master Chief Petty Officer of the Coast Guard	1	4	7 1/4	±5/32	±1/4
Type IV, Length of Service Stripe (Gold Lace)					
One Stripe	15	6	7/8	±7/32	±1/32
Two Stripes	15	6	1 1/2	±7/32	±1/16
Three Stripes	15	6	2 1/8	±7/32	±3/32
Four Stripes	15	6	2 3/4	±7/32	±3/32
Five Stripes	15	6	3 3/8	±7/32	±1/8
Six Stripes	15	6	4	±7/32	±5/32
Seven Stripes	15	6	4 5/8	±7/32	±5/32
Eight Stripes	15	6	5 3/8	±7/32	±5/32
Type V Branch of Service Shield	16	13/16	1	±1/32	±1/16
Type VI, Grade Star	16	3/4 Diameter		±1/32	

1/ Figures are for dimensions only and are not drawn to scale.

NOTE: Tolerance for degrees for angle of chevrons shall be ±3 degrees.

22. **Gold Lace Chevrons and Service Stripes:** Insignia utilizing gold lace shall be produced by combining the background cloth with buckram. The gold lace shall be superimposed over the background cloth, and stitched along the sides with thread of color to match the gold lace, using stitching type 301. The ends of the gold lace shall fit into slits cut into the background cloth and the entire length of slits completely cover stitched with stitch type 304, using thread to match the color of the background cloth.
23. **Schiffli Embroidered Design:** Stitch enlargements shall be furnished by the Government to the contractor for use in preparing the necessary punchings, or digital data. The stitch enlargements shall not be altered in any way. All punchings or digital data shall be approved by the Government for conformity to requirements for minimum number of stitches as specified for the applicable insignia prior to the start of production.
24. **Hand Embroidered Design:** The design of the hand metallic (bullion) or synthetic metallic embroidered and/or gold lace insignia shall be in accordance with the Government approved guide sample and shall not be altered in any way.
25. **Direction of Design:** Background fabrics having a twill effect in their weave shall have the height dimension of the embroidered design finishing in the length (warp) direction of the fabric with right hand twill.
26. **Assembly:** Unless otherwise specified, all insignia shall be centered on the background fabric and have all outer edges of the background cloth hemmed with a 3/8 to 1/2 inch turn under, using stitch type 301 and seam type EFa-1. The color to the thread shall match the background cloth.

27. **Construction of Rating Badge Machine Embroidered Schiffli:** Type I, classes 2, 3, and 4 rating badges shall be embroidered on the background cloth as specified in Table II in accordance with the applicable stitch enlargement listed in Table IV, the dimensions specified in the applicable figure, and the applicable construction requirements.
28. **Construction of Rating Badge Hand Embroidered:** Type I, classes 1, 5, 6, and 7 rating badges shall be embroidered on the background cloth specified in Table II in accordance with the approved guide sample, the dimensions specified in the applicable figure, and the construction requirements in Table V.
29. **Construction of Specialty Marks and Striker Mark:** The specialty mark shall be centered on the rating badge between the upper chevron and the eagle's talons. Striker mark shall be centered on the background cloth specified in Table III and shall be embroidered in accordance with the designs and dimensions indicated for specialty marks in Figures 8 thru 10 and the applicable construction requirements.
30. **Construction of Group Rate Mark:** The group rate marks shall consist of one (class 1) stripe, two (class 2) stripes, or three (class 3) stripes embroidered diagonally on the background cloth specified in Table III. The stripes shall be machine embroidered in accordance with the applicable stitch enlargement listed in Table IV, the dimensions specified in Figures 12 and 13, and the applicable construction requirements.
31. **Construction of Length of Service Stripe:** Insignia shall consist of one thru seven stripes, as applicable, stitched diagonally on the background cloth specified in Table III. The gold lace stripes shall be cut to meet the dimensions specified in Figure 14, and the applicable construction requirements.
32. **Construction of Branch of Service Shield:** The shield shall be hand embroidered with 13 simulated stars at top one-third of shield, arranged in two horizontal rows, 7 stars over 6 stars. The bottom two-thirds of the shield shall have 13 vertical stripes. Shield shall be hand embroidered on the background cloth specified in Table III and in accordance with the approved guide sample, the dimensions specified in Figure 15, and the applicable construction requirements.
33. **Construction of Grade Star:** The star(s) shall be of a five pointed design in accordance with the dimensions specified in figure 15. Star(s) shall be hand embroidered in accordance with the applicable construction requirements for hand embroidery.
34. **Visual Examination:** The finished insignia shall be examined for defects in design, material, construction, and workmanship and classified in accordance with the defects listed in Table VIII.
35. **Dimensional Examination:** The finished insignia shall be examined for defects in dimensions. Any measurement deviating from specified dimensions on applicable figure and in Tables IV and V shall be scored as a defect.
36. **Component and Material Inspection:** Components and materials shall be tested in accordance with all the requirements of referenced specifications, drawings, and standards unless otherwise excluded, amended, modified, or qualified in this specification or applicable procurement documents. Components listed in Tables II and III shall be tested using methods specified in ASTM-D-6193, wherever applicable. The lot shall be unacceptable if the average of one or more sample units fail to meet the requirements as specified in Table VI.

Table VI – Component Testing

Component	Characteristic	Requirements Paragraph	Test Method	Determinations Per Sample Unit
Buckram	Material Identification	10	<u>1</u> /	1
	Weave		Visual	1
	Yarn per Inch			
	Ends		5050	5
	Picks		5050	5
	Weight		5041	5
Embroidery Yarn	Material Identification	5	<u>1</u> /	1
	Denier		4021	1
	Ply		Visual	1
	Presence of Sulphur		2020 <u>1</u> /	1
Bobbin Thread	Material Identification	6	<u>1</u> /	1
	Ply		Visual	1
Cotton Thread	Colorfastness to:	7		
	Dry Heat (Hot Pressing)		5640	1
	Wet Heat (Hot Pressing)		5640	1
Fiberboard Form	Presence of Sulfur	14	2020 <u>1</u> /	1

1/ Unless otherwise specified, a certificate of compliance shall be submitted and will be acceptable for this requirement.

NOTE: All results shall be reported as Pass or Fail.

37. **Testing of the End Item:** The end item shall be tested as specified in Table VII. The unit of product for tests shall be six insignia. The lot shall be unacceptable if one or more sample units fail to meet requirements mentioned in Table VII. The sample size shall be determined in the contract.

Table VII – End Item Testing

Characteristics	Requirements Paragraph	Test Method	Determinations Per Sample Unit
Embroidery Yarns	5		
Shade Match		Visual	1 Each Color
Colorfastness to: 1/		2/	
Bleaching		5600	1
Light		5660	1
Wet-Dry Cleaning		5622	1
Laundrying		5614	1
Wet and Dry Heat (Hot Pressing)		5640	1
Basic Material (Type)	3	Visual	1

- 1/ Test reports shall be furnished for each color of yarn used in the initial shipping lot of finished insignia. A contractor's certificate of compliance will be accepted for each color for each subsequent lot of insignia on the same contract provided the contractor certifies that the dyer or dye formulation has not been changed.
- 2/ Except that the specimens shall be the finished embroidered insignia.

NOTE: All results shall be reported as Pass or Fail.

38. **Workmanship:** The finished insignia shall conform to the quality of product established by this specification. The occurrence of defects shall not exceed the applicable acceptable quality levels.

Table VIII – Defects

Examine	Defects
I. Material – Gold Lace and Background Cloth	<ul style="list-style-type: none"> (a) Other than specified (b) Color or shade other than specified (c) Hole, float, slub, knot, broken, spot or stain
II. Design	<ul style="list-style-type: none"> (a) Any deviation from applicable stitch enlargement, drawing, illustration or guide sample. (b) Wrong color arrangement (c) Design poorly defined, distorted or misshaped. (d) Design not properly positioned and/or centered. (e) Form board used to raise design missing (when applicable).
III. Construction	<ul style="list-style-type: none"> (a) Any operation omitted or not preformed as specified. (b) Distortion of surface yarns (face), loose or tight tension. (c) Traveling stitches on face side (walking or jumping). (d) Broken, missing or skipped stitches, any. (e) Bobbin thread visible on face (f) Stiele stitching omitted. (g) Unrelated colors or yarn visible on face. (h) Uneven spacing between service stripes or chevrons. (i) Stitching incomplete. (j) Edges of design or patch not finished as specified. (k) Wrong stitch type. (l) Width of Stiele border stitch not 1/16 inch. (m) Stitches not of sufficient closeness or density. (n) Stitches not drawn tight enough. (o) Embroidered on wrong side of background cloth. (p) Incomplete coverage, background cloth or underlay stitches visible. (q) Open or poorly formed points in gold lace. (r) Buckram omitted, incomplete, or extending beyond insignia. (s) Height dimension of embroidered design not finished in length direction of (when applicable) background cloth having a twill effect in its weave.

Table VIII – Defects (Continued)

IV. Finish Stitching and Attachment	<ul style="list-style-type: none"> (a) Stitches per inch not within specified range. (b) Tight or loose tension affecting appearance. (c) Irregular or uneven gauged stitching, affecting appearance. (d) Broken or skipped stitches more than 1/4 inch in length. (e) Color or hemming thread not as specified. (f) Ends not finished as required. (g) Points not mitered (i.e., gold lace chevrons) (h) Edges not finished as required. (i) Wrong stitch type or seam. (j) Run off, any. (k) Stitch tension, stitch density, or stitch bight not uniform. (l) Partially obscuring design. (m) Edges of base cloth showing through. (n) Finished edges irregular or wavy.
V. Workmanship	<ul style="list-style-type: none"> (a) Spot, stain or foreign matter on face. (b) Two or more thread ends or stumps longer than 1/16 inch. (c) Creased or folded, will not flatten with manual pressure. (d) Bunched, kinked or tangled yarns on face. (e) Shifted or scuffed surface yarns. (f) Color of insignia face affected by stiffener coating.

39. **Responsibility for Inspection:** Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements (examinations and tests) as specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use his own or any other facilities suitable for performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspection set forth in the specification where such inspections are deemed necessary to ensure supplies and services conform to prescribed requirements.
40. **Responsibility for Compliance:** All items shall meet all requirements of this specification. The inspection set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract.
41. **Certificate of Compliance:** Where certificates of compliance are submitted, the Government reserves the right to check test such items to determine the validity of the certification.

42. **Certification:** All manufacturers are required to submit two samples of each design to be evaluated for certification. Samples are to be submitted in accordance with the United States Coast Guard Uniform Certification Program By-Laws for Insignia and Related Industries, including a letter which states the name and location of manufacturer, all subcontractors and the source of the basic material to:

U.S. Coast Guard
Clothing Design and Technical Office
General Greene Avenue, Building 86
Natick, MA 01760

NOTE: For all designs with a left and right design manufacturers are required to submit two pairs of samples for certification.

43. **Guide Sample:** Samples, when furnished, are solely for guidance and information to the contractor. Variations from this specification may appear in the sample in which case this specification shall govern. For access to samples and patterns, address the U.S. Coast Guard:

U.S. Coast Guard
Clothing Design and Technical Office
General Greene Avenue, Building 86
Natick, MA 01760

44. **Specifications, standards, and handbooks:** The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents shall be those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation.

Federal Specifications:

A-A-50199 – Thread, Polyester, Cotton- or Polyester-Covered
A-A-52094 – Thread, Cotton

Military Specifications:

MIL-DTL-823 – Cloth, Serge, Wool, Wool and Nylon, Polyester and Wool
MIL-L-17507 – Lace, Ornamental
MIL-E-17568 – Embroidery Materials, Metallic and Synthetic Metallic

Federal Standard:

FED-STD-191 – Textile Test Methods

45. **Government Specifications:** The specifications and standards specified herein unless otherwise indicated can be obtained from the following:

Standardization Documents Order Desk
Building 4D
700 Robbins Avenue
Philadelphia, PA 19111-5094

Or online at: www.assist.daps.dla.mil

47. **Non-Government Publications:** The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract.

ASTM International:

ASTM-D-6193 – Stitches and Seams

(Copies of this document are available from <http://www.astm.org> or from the ASTM International 100 Barr Harbor Drive, PO Box C700, West Conshohocken, Pennsylvania, 19428-2959.)

The Color Association of the United States:

Department of Defense Standard Shades for Sewing Threads

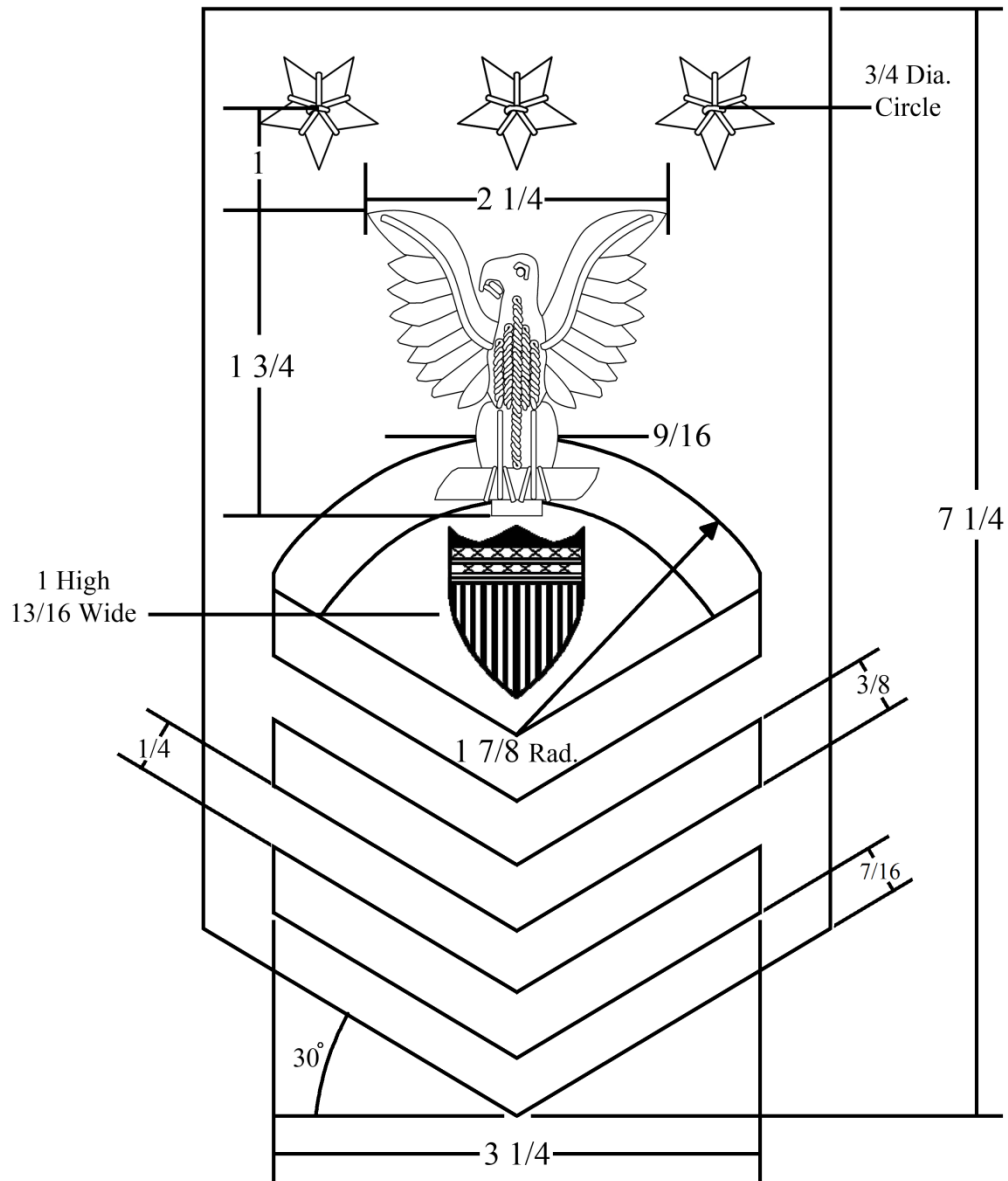
Department of Defense Standard Color Card of Official Standardized Shades for Heraldic Yarns for Embroidery and Ribbons

(Applications for copies should be addressed to The Color Association of the United States, 315 West 39th Street #507, New York, NY 10018.)

Note: Non-Government standards and other publications are normally available from the organizations that prepare or distribute the documents. These documents also may be available in or through libraries or other informational services.

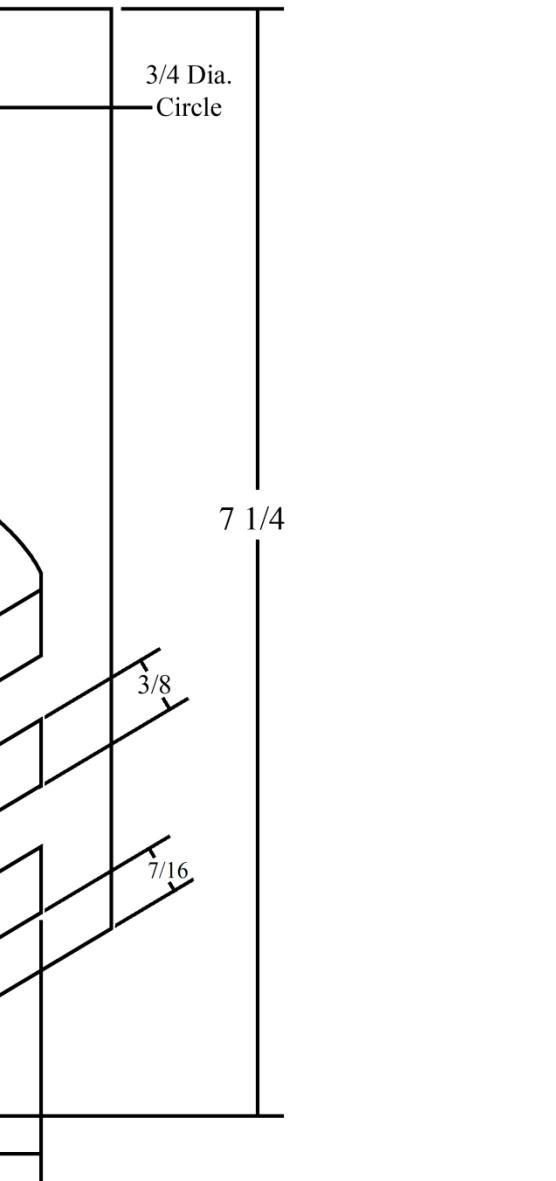
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49. **Document Preparation:** This document has been prepared by the U.S. Coast Guard. For technical questions/concerns contact:

U.S. Coast Guard
Clothing Design and Technical Office
General Greene Avenue, Building 86
Natick, MA 01760



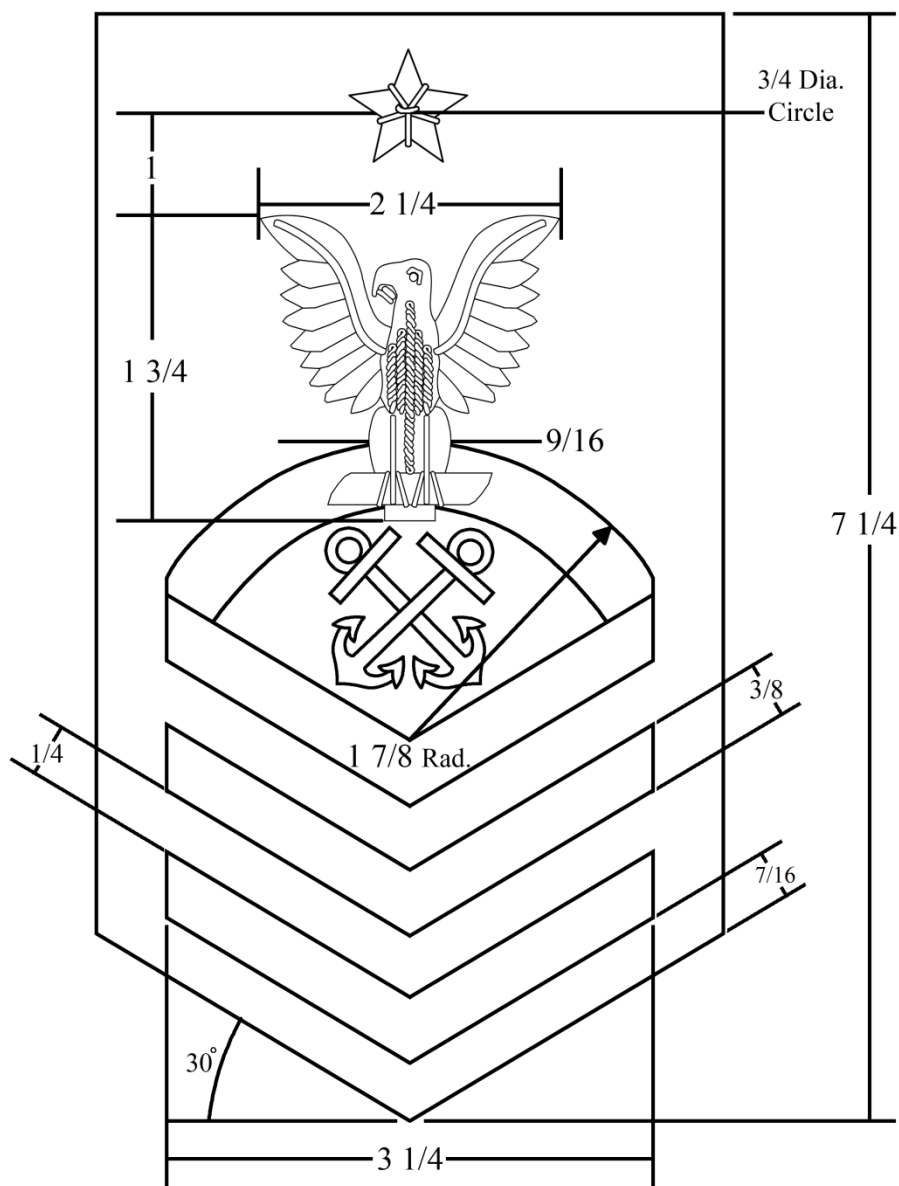
Note: Illustration is for dimensions only. For correct design and proper stitch execution refer to the applicable stitch enlargement. Unless otherwise specified, all dimensions are in inches.

Figure 1 – Rating Badge, Master Chief Petty Officer of the Coast Guard



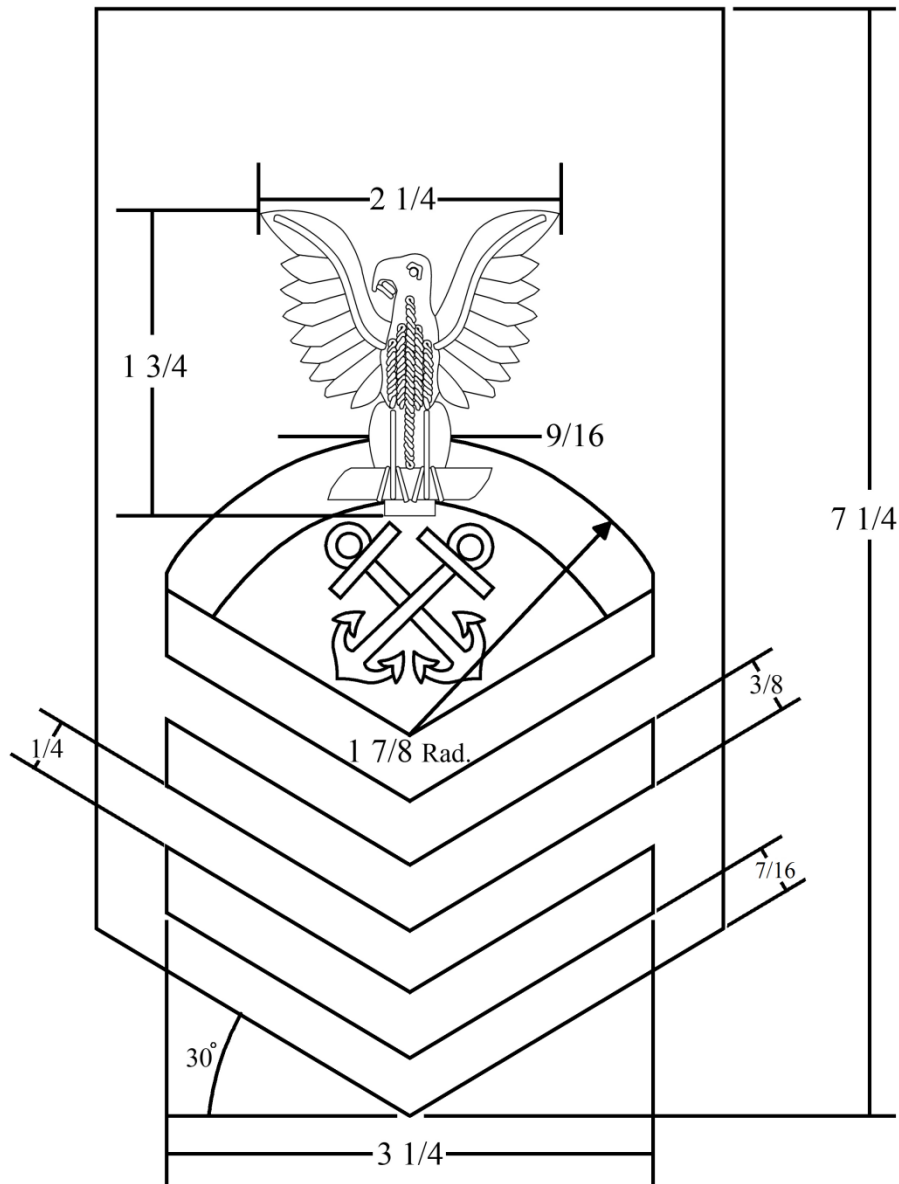
per stitch execution refer to the applicable inches.

Petty Officer



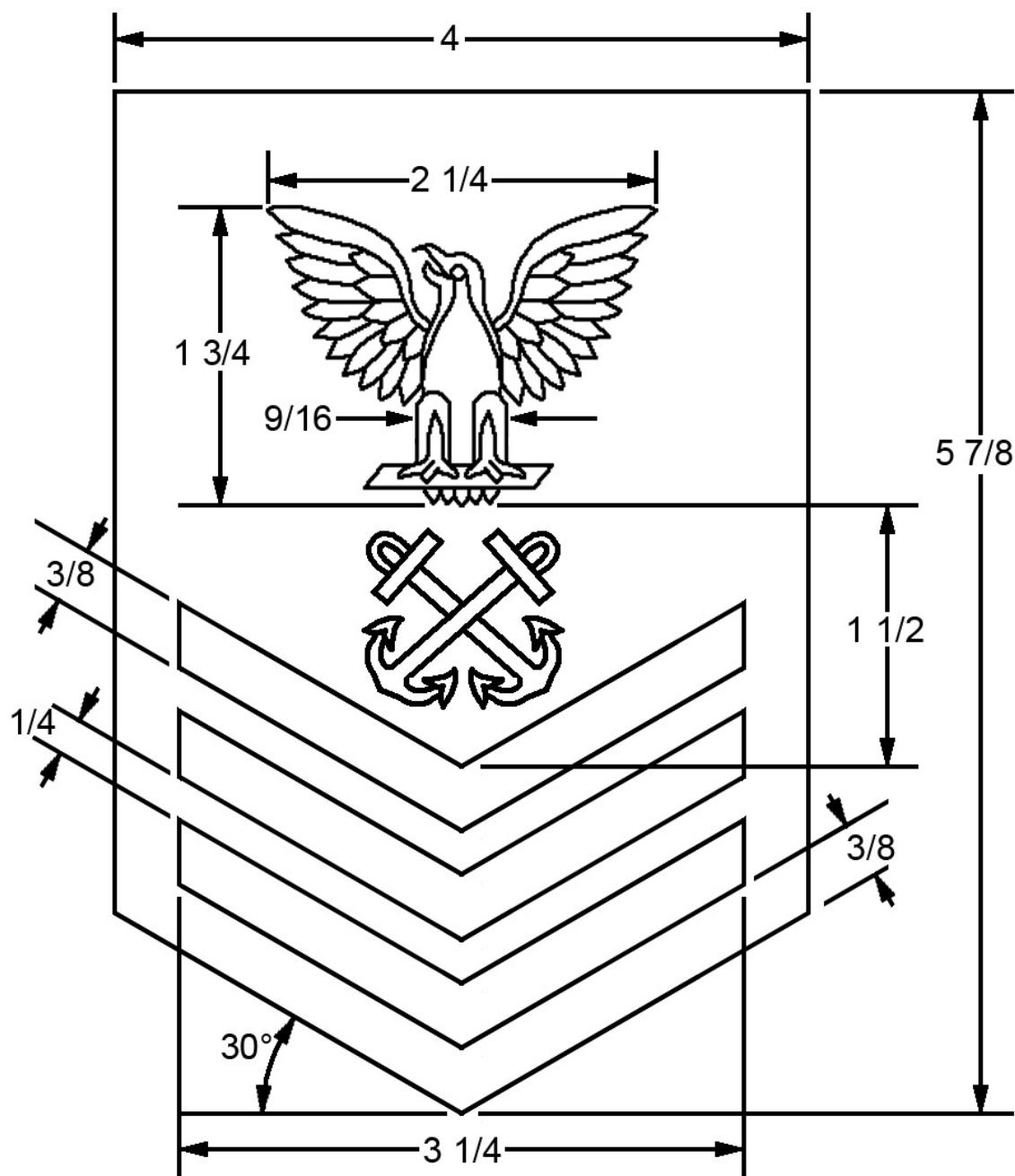
Note: Illustration is for dimensions only. For correct design and proper stitch execution refer to the applicable stitch enlargement. Unless otherwise specified, all dimensions are in inches.

Figure 3 – Rating Badge, Senior Chief Petty Officer



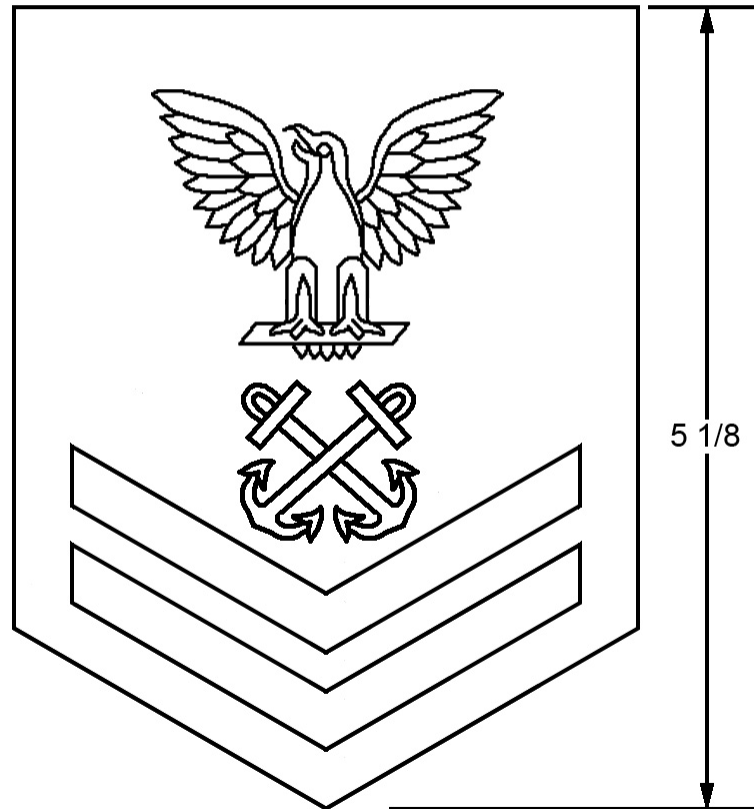
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Figure 4 – Rating Badge, Chief Petty Officer



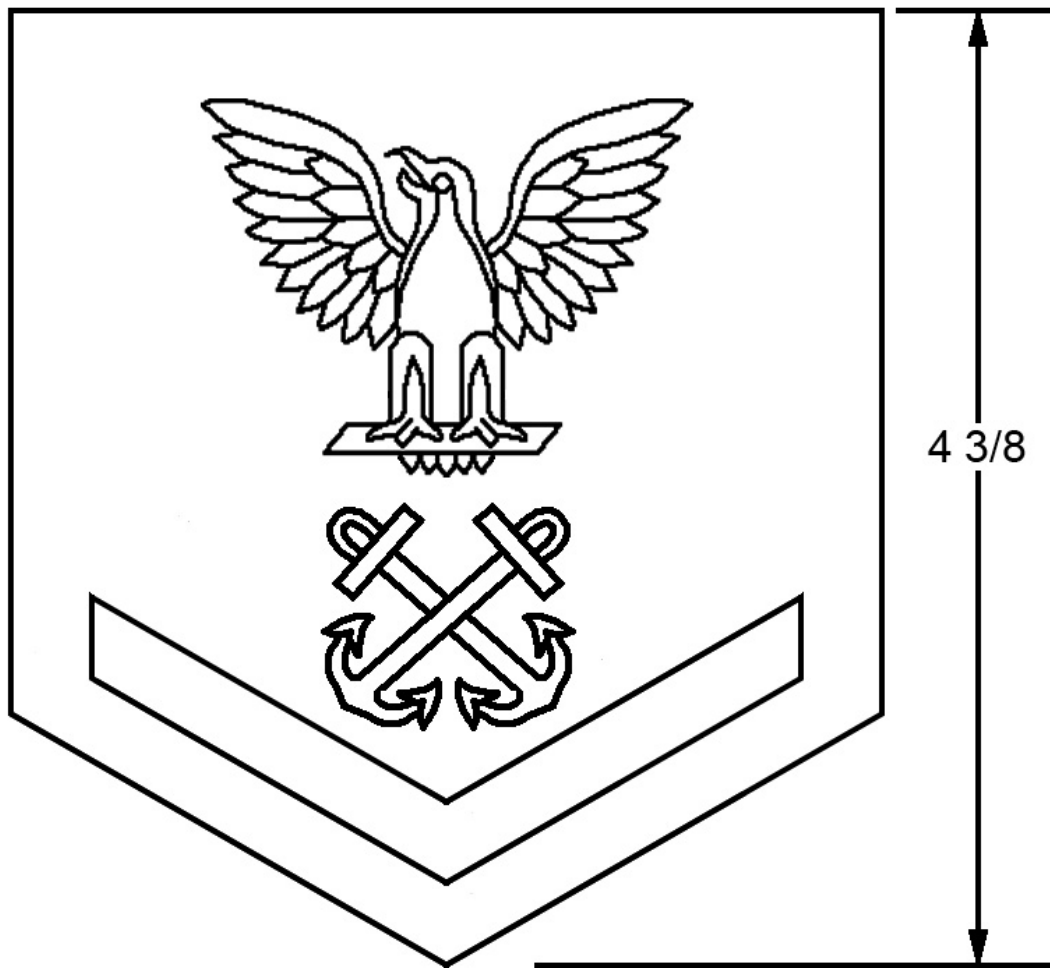
Note: Illustration is for dimensions only. For correct design and proper stitch execution refer to the applicable stitch enlargement. Unless otherwise specified, all dimensions are in inches.

Figure 5 – Rating Badge, Petty Officer First Class



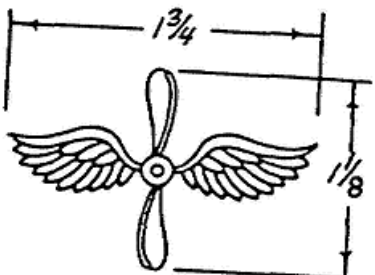
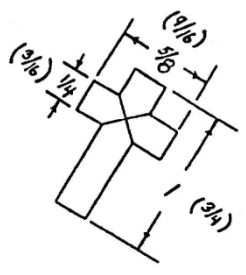
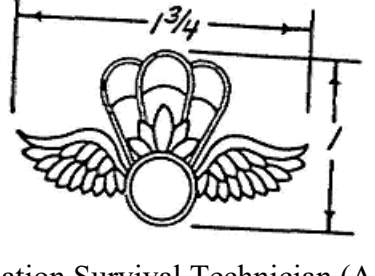
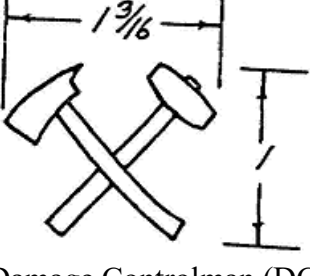
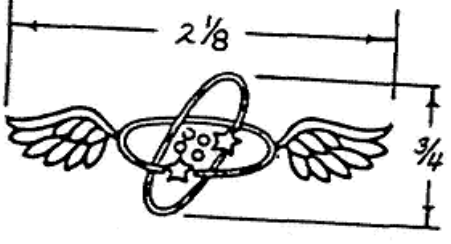
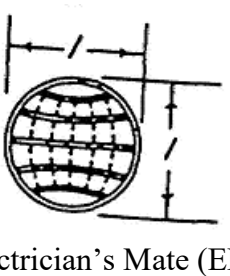
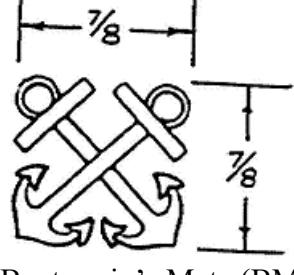
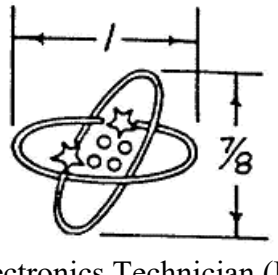
Note: Illustration is for dimensions only. For correct design and proper stitch execution refer to the applicable stitch enlargement. Unless otherwise specified, all dimensions are in inches.

Figure 6 – Rating Badge, Petty Officer Second Class



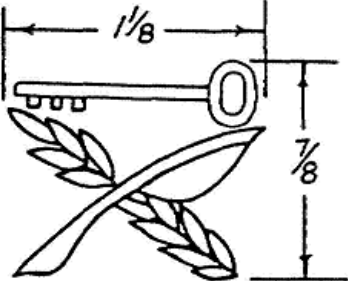
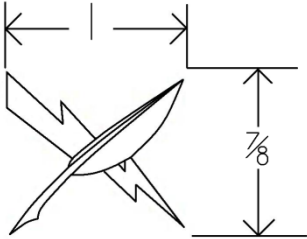
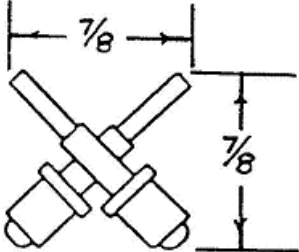
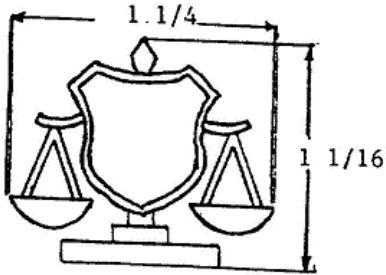
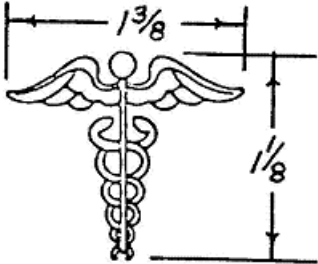
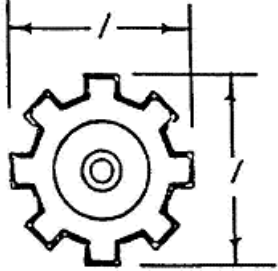
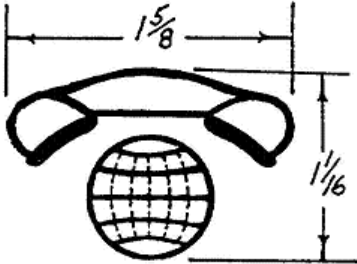
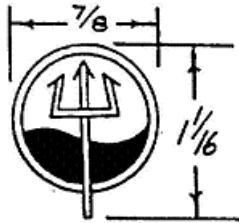
Note: Illustration is for dimensions only. For correct design and proper stitch execution refer to the applicable stitch enlargement. Unless otherwise specified, all dimensions are in inches.

Figure 7 – Rating Badge, Petty Officer Third Class

 <p>Aviation Maintenance Technician (AMT)</p>	 <p>CHAPLAIN * (CHRISTIAN)</p>
 <p>Aviation Survival Technician (AST)</p>	 <p>Damage Controlman (DC)</p>
 <p>Avionics Technician (AVT)</p>	 <p>Electrician's Mate (EM)</p>
 <p>Boatswain's Mate (BM)</p>	 <p>Electronics Technician (ET)</p>

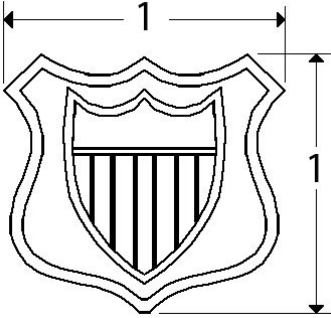
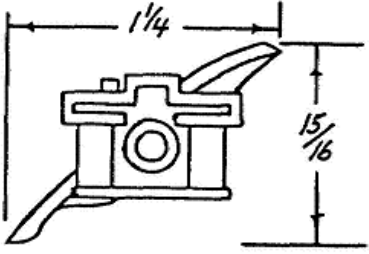
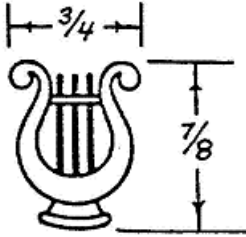
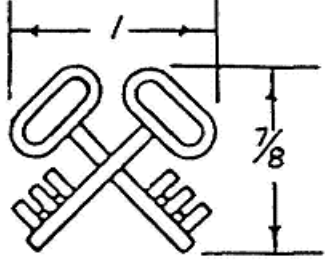
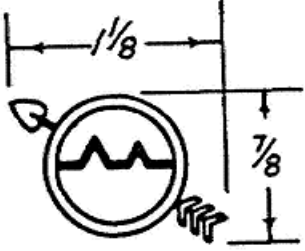
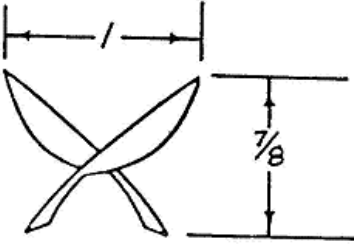
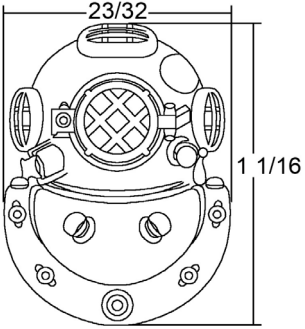
Note: Illustrations are for dimensions only. For correct designs and proper stitch executions refer to the applicable stitch enlargements. Unless otherwise specified, all dimensions are in inches.

Figure 8 – Specialty Marks and Striker Marks

 <p>Culinary Specialist (CS)</p>	 <p>Intelligence Specialist (IS)</p>
 <p>Gunner's Mate (GM)</p>	 <p>Investigator (IV)</p>
 <p>Health Services Technician (HS)</p>	 <p>Machinery Technician (MK)</p>
 <p>Information Specialist (IT)</p>	 <p>Marine Science Technician (MST)</p>

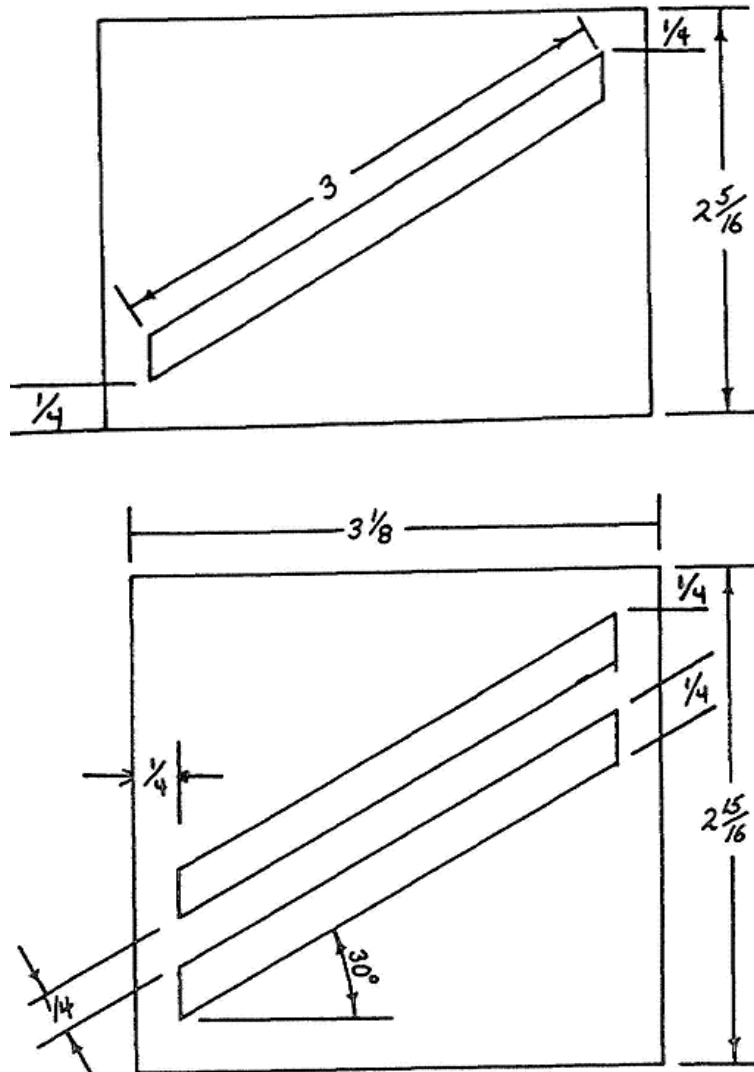
Note: Illustrations are for dimensions only. For correct designs and proper stitch executions refer to the applicable stitch enlargements. Unless otherwise specified, all dimensions are in inches.

Figure 9 – Specialty Marks and Striker Marks

 <p>Maritime Enforcement (ME)</p>	 <p>Public Affairs Specialist (PS)</p>
 <p>Musician (MU)</p>	 <p>Storekeeper (SK)</p>
 <p>Operations Specialist (OS)</p>	 <p>Yeoman (YM)</p>
 <p>Diver</p>	

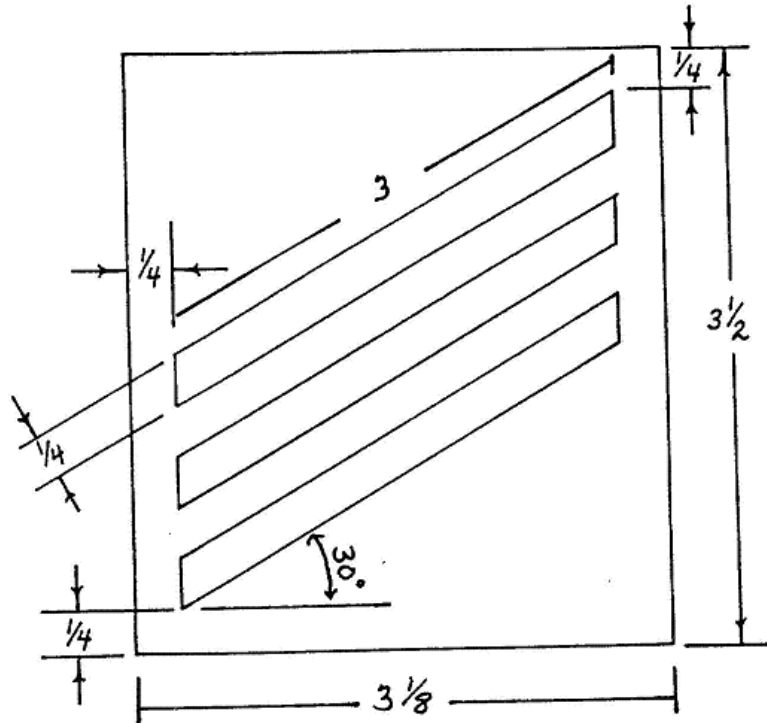
Note: Illustrations are for dimensions only. For correct designs and proper stitch executions refer to the applicable stitch enlargements. Unless otherwise specified, all dimensions are in inches.

Figure 10 – Specialty Marks and Striker Marks



Note: Illustrations are for dimensions only. For correct design and proper stitch executions refer to the applicable stitch enlargements. Unless otherwise specified, all dimensions are in inches.

Figure 12 – Group Rate Marks



Note: Illustration is for dimensions only. For correct design and proper stitch execution refer to the applicable stitch enlargement. Unless otherwise specified, all dimensions are in inches.

Figure 13 – Group Rate Mark

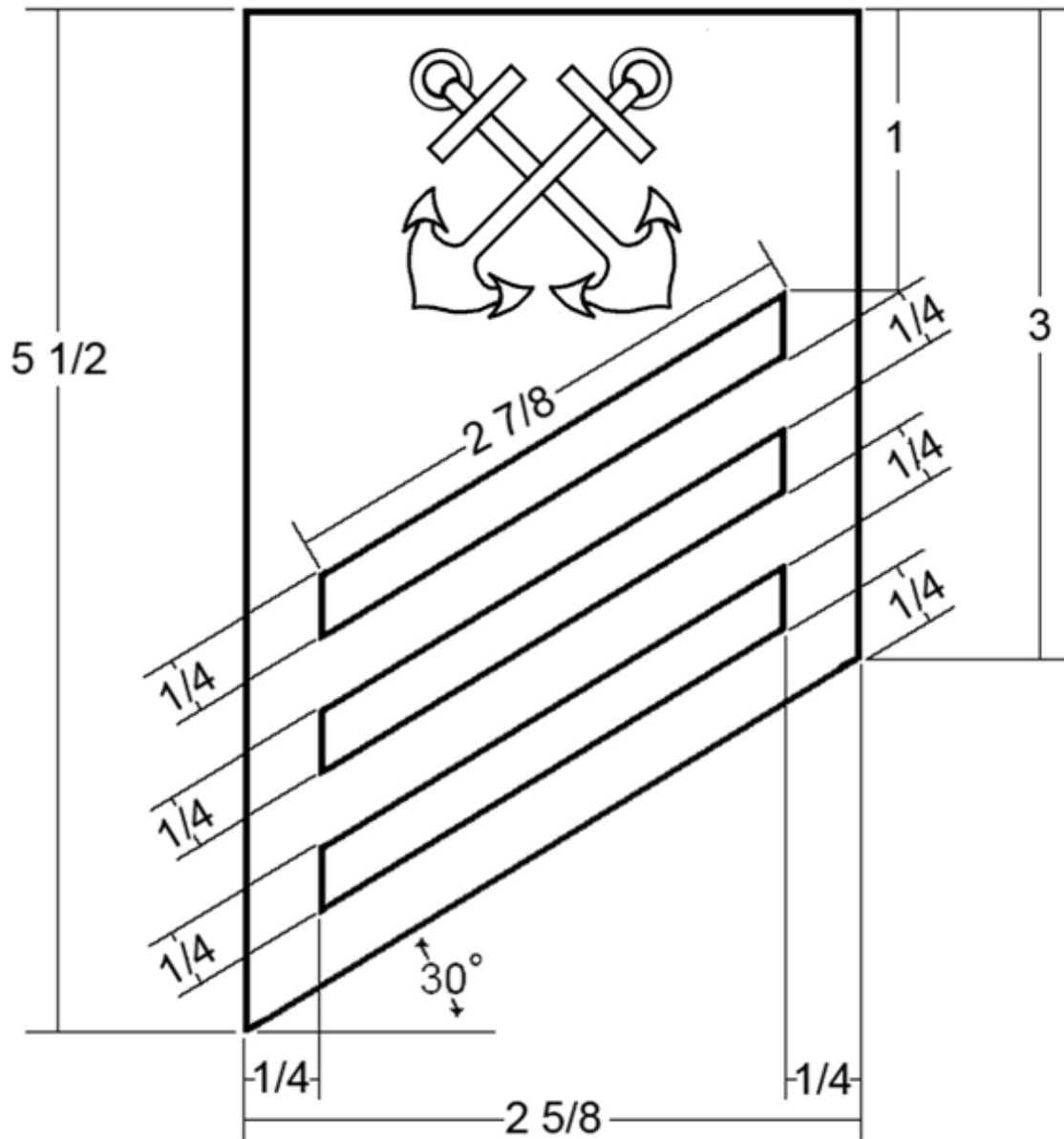
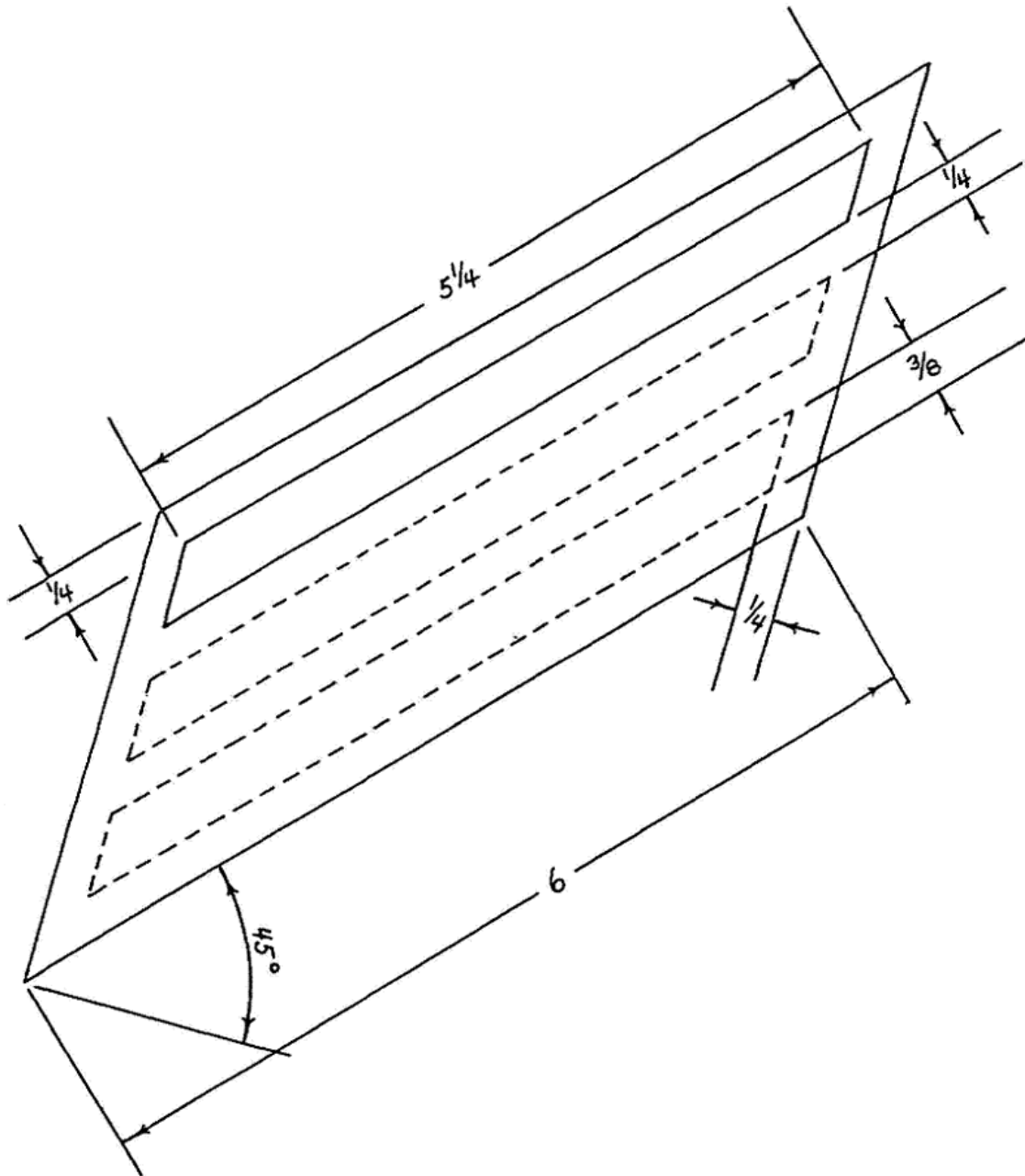
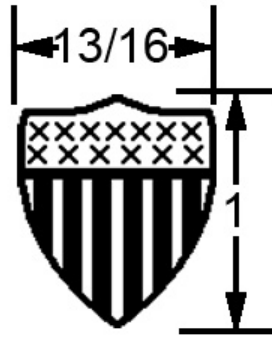


Figure 14 – Combined Group Rate Marks



Note: Illustration is for dimensions only. For correct design and proper stitch execution refer to the applicable stitch enlargement. Unless otherwise specified, all dimensions are in inches.

Figure 15 – Length of Service Stripe(s)



Branch of Service Shield

(Size of the background patch shall be 2 inches square.)



Grade Star
(3.4 inch Diameter)

Note: Illustration is for dimensions only. For correct design and proper stitch execution refer to the applicable stitch enlargement. Unless otherwise specified, all dimensions are in inches.

Figure 16 – Branch of Service Shield and Grade Star