

MIL-A-18717B(AS)  
AMENDMENT 1  
27 August 1984

## MILITARY SPECIFICATION

### ARRESTING HOOK INSTALLATIONS, AIRCRAFT

This amendment forms a part of Military Specification MIL-A-18717B(AS), dated 10 September 1979, and is approved for use by the Naval Air Systems Command, Department of the Navy and is available for use by all Departments and Agencies of the Department of Defense.

#### PAGE 2

Under Military Specifications: Delete:

"MIL-P-15024 Plates, Tags, and Bands for Identification of Equipment"

Under Military Specificatons: Revise last line:

"MIL-D-23003 Deck Covering Compound, Nonslip, Rollable

Under Military Specifications: Add after last line:

"MIL-C-81346 Compound, Deck Covering, Nonslip, Lightweight, for Aluminum Alloy Landing Mats"

Under Military Publications: Add after last line:

Naval Air Engineering Center

MPR 1067 Application of Flame Sprayed Data Pads

Under Military Standards: Revise last item to read:

"MIL-STD-203 Aircrew Station Controls and Displays for Fixed Wing Aircraft"

#### PAGE 4

Delete entire Figure 1 and replace with revised Figure 1.

#### PAGE 5

Delete entire Figure 2 and replace with revised Figure 2.

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Renumber existing paragraph 3.6.6 to paragraph 3.6.6.1.

Add new paragraph 3.6.6 to read:

"3.6.6 Hook point/shank design. The design of the hook point/shank shall be such to preclude incorrect assembly."

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Revise existing paragraph 3.11 to read:

"3.11 Identification data pad. Each arresting hook shank shall bear a flame sprayed data pad on which a serial number (6.2.3) and a part number are electro or vibro etched. The data pad shall provide sufficient blank surface to permit the stamping of symbols by inspection or overhaul activities to record the number of inspection and overhaul cycles as required. In addition, serial numbers must be permanently affixed to, or marked on, the above components in noncritical areas. Refer to MPR 1067 for background information on application of flame sprayed data pads."

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Add new paragraph 3.13.1.

"3.13.1 Marking data. All hook points shall be permanently marked with the part number including drawing revision letter, manufacturer's code number and a unique serial number."

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Revise existing paragraph 6.2.3 to read:

"6.2.3 Serial numbers. Serial numbers required by 3.11 and 3.13.1 shall be assigned by the contractor."

In paragraph 6.3 under NAEC heading, Line 3, revise to read:

"Code 911 and 94"

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Add sentence to end of paragraph 40.4.2.2:

"The hook point shall have a minimum toe radius of .625 inch."

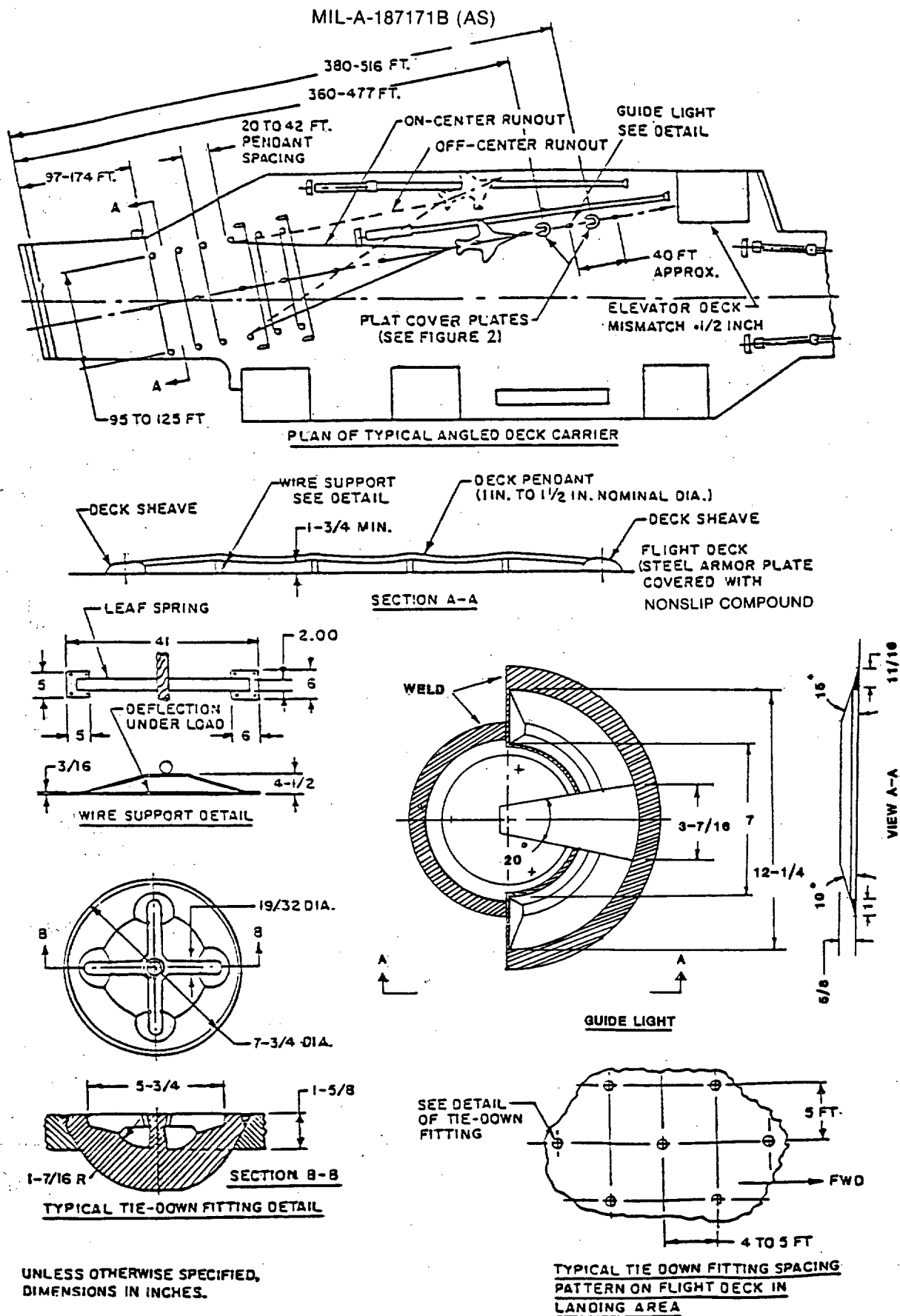


Figure 1. Typical Arrangement and Details of Arrested Landing Deck Area on CV Type Flight Deck

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**NOTES:**

1. DIMENSIONS IN INCHES.
2. FEATHER WELD TO BLEND WITH CONICAL SHAPE OF SHEAR RING.

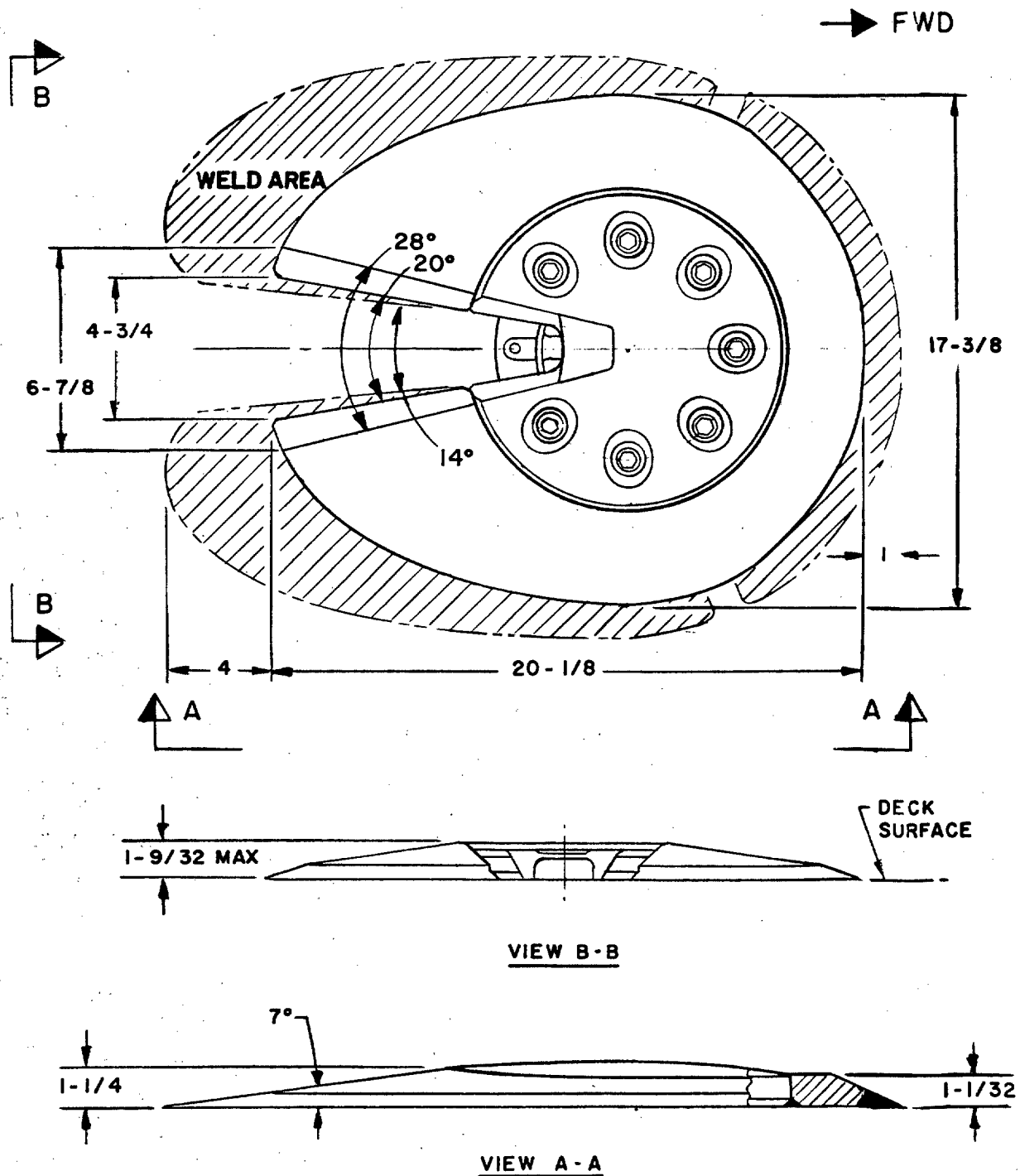


Figure 2. Pilot Landing Aid Television (PLAT) Installation

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Delete existing paragraph 40.4.2.5 and substitute:

"40.4.2.5 Wear resistance. The wear requirements for arresting hooks are severe. During off-center arrestments the deck pendant tends to slide through the hook throat with rubbing velocities on the order of 40 feet/second. The hook point throat must be composed of material which will preclude welding of the deck pendant to the cable groove under the conditions of heat and pressures which exist during off-center engagements. The Colmonoy No. 6, Metco No. 12C or 16C coated cable grooves of the hook points covered by MIL-H-21594 have proven suitable for use with both carrier type and field type arresting gear cables. The use of 12C type coating is mandatory for use on hookpoints made of 4330 steel. Portions of the back of the hook point and the toe radius are subject to severe abrasion during arrestment on concrete runways and on carrier decks and EAF field landing mats both of which are covered with the anti-skid compound of MIL-D-23003. Field type arrested landings are especially severe since the hook point may drag on the runway for considerable distances before engagement with the deck pendant."

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Delete 3.6.6 and substitute:

"3.6.6 Hook point or shank design. . . . .10."

Add 3.6.6.1:

"3.6.6.1 Hook point to shank attachment. . . . .10."

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Add 3.13.1:

"3.13.1 Marking Data. . . . .13."

PAGE 38

Revise Figure 2 title to read:

"Figure 2 Pilot Landing Aid Television (PLAT) Installation. . . . .5."

Preparing activity:  
NAVY - AS  
(Project No. 1710-N043)