

# Change 1 (Pen & Ink Update) to ETL 94-01, Standard Airfield Pavement Marking Schemes

27 Nov 96

| #  | PAGE | PARA  | FIGURE | CHANGE   |
|----|------|-------|--------|--|
| 1  | 1    | 1.2.2 |        | After the first sentence add the following: "When using whitewash to apply temporarily displaced threshold markings, the chevrons and arrowheads may be white." This is consistent with FAA requirements and the Aeronautical Information Manual (AIM), and does not affect the meaning of the markings.   |
| 2  | 1    | 1.22  |        | At the end of the last sentence, add; "at greater than normal taxi speeds." This change will allow temporary marking tape for temporarily displaced thresholds if the area is only used for taxiing operations. This is consistent with the use of these type materials on taxiways and aprons.  |
| 3  | 9    |       | 2.4    | Displaced Threshold Marking Scheme (d): Add a note to the description as follows; "NOTE: Other existing runway markings within the displaced threshold area need not be obliterated." This clarifies the requirements for marking a temporarily displaced threshold.   |
| 4  | 15   | 3.222 |        | In the last sentence, strike "greater than", and add "or greater" after "(200 feet)". This clarifies that you do not need an instrument holding position if the Height Above Touchdown (HAT) is exactly 200 feet.  |
| 5  | 17   |       | 3.1    | Within the bubble in the lower right-hand corner, change "Runway Holding Position" to "Instrument Holding Position" and mark the dimension for the space between the two transverse stripes as 2-feet.   |
| 6  | 19   |       | 3.3    | Add "200-feet from the point of tangency" as the dimension for the straight section of the taxiway lead-in line that is located on the runway, parallel with the runway centerline.  |
| 7  | 19   |       | 3.3    | The taxiway designator "D" on the runway is placed incorrectly. It should be placed parallel with the taxiway lead-in line, with the base of the letter aligned with the end of the lead-in line. Mark a 3-foot wide dimension for the gap between the letter and the outer edge of the lead-in line, and align the letter so it can be read when traveling along the long axis of the runway toward the taxiway (top of the letter closest to the taxiway). |
| 8  | 19   |       | 3.3    | Mark dimensions for the supplemental arrows for the surface painted taxiway designators. They are 6-foot long including the arrowhead. The arrowhead is 1.5-foot wide by 2-foot long. Mark a 4-foot dimension for the gap between the letter and the base of the arrow.  |
| 9  | 19   |       | 3.3    | Add a dimension to show that the distance between intersection of the runway edge and the arrowhead of the surface painted Runway Designator ("25" or "7") is 50' minimum.   |
| 10 | 23   | 5.1.4 |        | Add a note at the end of the paragraph as follows; "NOTE: Runways closed for periods of five days or less need not be marked if a NOTAM is issued to publicize the closure."   |
| 11 | 24   | 5.2   |        | Insert "or traffic cones" after "barricades" in the first sentence.  |
| 12 | 24   | 5.2.1 |        | Change the word "minimum" to "maximum".  |

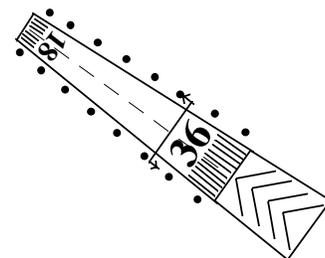
# Change 2 (Pen & Ink Update) to ETL 94-01, Standard Airfield Pavement Marking Schemes

## 15 Sep 97

| # | PAGE | PARA | FIGURE | CHANGE   |
|---|------|------|--------|--|
| 1 | 20   | 4.1  |        | <p>After the second sentence, add the following: "Orient the H so it is aligned with the normal direction of approach (appears as an H to pilots during their approach to landing." If the facility is intended for single direction ingress and egress, mark a bar beneath the "H" to show the intended direction of approach/departure. A bar may also be placed under the H when it is necessary to distinguish the preferred approach direction for bidirectional helipads. The length of the bar should be at least equal to the overall width of the H and the width equal to dimension C in figure 4.1. Provide a space between the H and the bar equal to half of the bar width.</p>   |
| 2 | 20   | 4.1  |        | <p>After paragraph 4.1, add the following: "4.1.1. Provide helipad hold position markings at appropriate locations to protect against incursions. Use Runway Hold Position for Visual Flight Rule (VFR) operations, and Instrument Hold Position Markings, if required, for Instrument Meteorological Conditions (IMC) operations. (See paragraph 3.2 to determine if an instrument hold position will be needed.) Holding position marking schemes are shown in Figure 3.1, Taxiway Markings. Place hold position markings on all lateral entrance taxiways at least 30 m (100-feet) from the near edge of the boundary marking (edge of the helipad). If any taxiways enter the helipad in the normal direction of approach or departure, place a holding position marking at an appropriate distance to protect the Approach-Departure Clearance Surface and the Takeoff Safety Zone (See AFR 86-14, Chapter 4, Helicopter Landing Facilities (future AFJMAN 32-1013, Airfield and Heliport Planning and Design))."</p> |



AFCESA Technical Support Directorate



## Change 3 (Pen & Ink Update) to ETL 94-01, Standard Airfield Pavement Marking Schemes. 10 Jul 00

| #  | PAGE | PARA    | FIGURE | CHANGE  |
|----|------|---------|--------|---|
| 1  | 4    | 2.5.    | N/A    | Change the paragraph title from "Edge Stripes" to "Side Stripes". Also change the first sentence to read as follows: "Side stripes must be marked on precision instrument runways". Delete the second sentence and replace it with the following text: "You may also use them on non precision instrument runways, and basic runways. Do not use these lines to identify the edge of the usable pavement. They are intended only to enhance visual acquisition of the runway environment. If there is a lack of contrast between the load-bearing surface and the shoulder, use shoulder markings (deceptive surface) on the non load-bearing surface." |
| 2  | 4    | 2.5.    | N/A    | Add subparagraph 2.5.2 as follows: "Side stripes may be placed at 43m (140 feet) separation distance regardless of the runway width. If special missions indicate a need for wider separation on 61 m (200-feet) or 91 m (300-feet) wide runways, the side stripes are placed as stated above except that the minimum separation between the inner edges of the stripes is 59 m (194 feet). Greater separation is not authorized."  |
| 3. | 7    | N/A     | 2.2.   | Within the figure title, replace "Edge" with "Side" so that the title reads as follows: "Threshold, Designation Number, Side Stripe, and Centerline Layout."  |
| 4  | 14   | 3.2.    | N/A    | Within the last sentence, delete the word "operational" and insert "including shoulders" at the end of the sentence so that the sentence reads as follows: "Both are marked from edge-to-edge of the pavement surface including shoulders."   |
| 5  | 15   | 3.2.2.2 | N/A    | Within the last sentence, delete the words "greater than" and insert "or greater" after (200') so the sentence reads as follows: "If the HAT is 60.96m (200 feet) or greater, no instrument hold position is needed."   |
| 6  | 34   | 6.2.3.  | N/A3   | Change "HQ AMC Regulation 55-60" to "AFI 13-217" so the sentence reads as follows: "Consult AFI 13-217, Assault Zone Procedures, for further information."  |