CEMP-ET Engineer Technical Letter 1110-3-486	Department of the Army U.S. Army Corps of Engineers Washington, DC 20314-1000	ETL 1110-3-486 3 November 1997
	Engineering and Design ARMY AIRFIELD/HELIPORT PAVEMENT DESIGN	
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CEMP-ET

DEPARTMENT OF THE ARMY
U.S. Army Corps of Engineers
Washington, D.C. 20314-1000

ETL 111 0-3-486

Technical Letter
No. 1110-3-486

3 November 1997

Engineering and Design
ARMY AIRFIELD/HELIPORT PAVEMENT DESIGN

1. Purpose. This letter updates guidance for the design of Army airfield/heliport pavements in accordance with TM 5-825-1/AFMAN 32-8008, Vol. 1, by providing the appropriate pavement thickness design curves.

2. Applicability. This letter applies to all HQUSACE elements and USACE commands having military construction and design responsibility.

3. References.

a. TM 5-8034, “Planning of Army Aviation Facilities.”

b. TM 5-822-12, “Design of Aggregate Surfaced Roads and Airfields.”

c. TM 5-825-1/AFMAN 32-8008, Vol. 1, “General Provisions for Airfield/Heliport Pavement Design.”

d. TM 5-825-2/AFM 88-6, Chap. 2/DM 21.3, “Flexible Pavement Design for Airfields.”

e. TM 5-825-3/AFM 88-6, Chap. 3, “Rigid Pavements for Airfields.”

4. Distribution. Approved for public release; distribution is unlimited.

5. Background. During the past several years, the four classes of Army airfield/heliport pavements referenced in TM 5-8034 have been revised and expanded into six classes based on mission requirements for each airfield/heliport in accordance with TM 5-825-1. This change necessitated the development of new Army pavement design curves as provided in Appendix A. These design curves are already included in the USACE airfield pavement computer design programs.

6. Action. Pending publication of the revised technical manuals above, the pavement design curves provided in Appendix A will be used in the design of Army airfield/heliport pavements. These curves supersede all previous Army airfield/heliport pavement design curves contained in TM 5-822-12, TM 5-825-2/AFM 88-6, Chap. 2/DM

21.3 and TM 5-825-3/AFM 88-6, Chap. 3.

7. Implementation. This letter will have routine application for all future military projects as defined in paragraph 8c, ER 1110-345-100.

FOR THE COMMANDER:

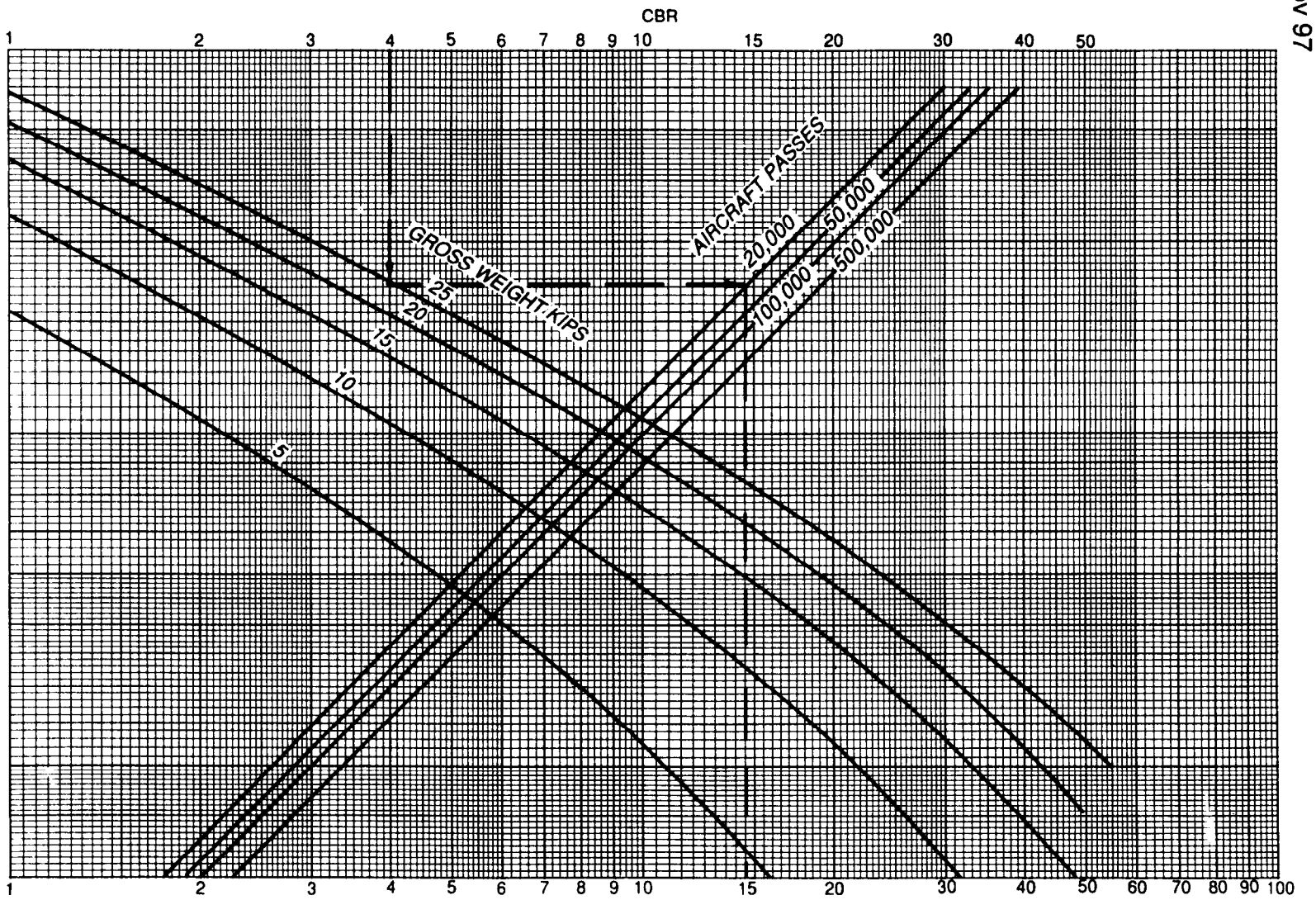
Philip T. Campbell, COL

1 Appendix
APP A - Design Curves

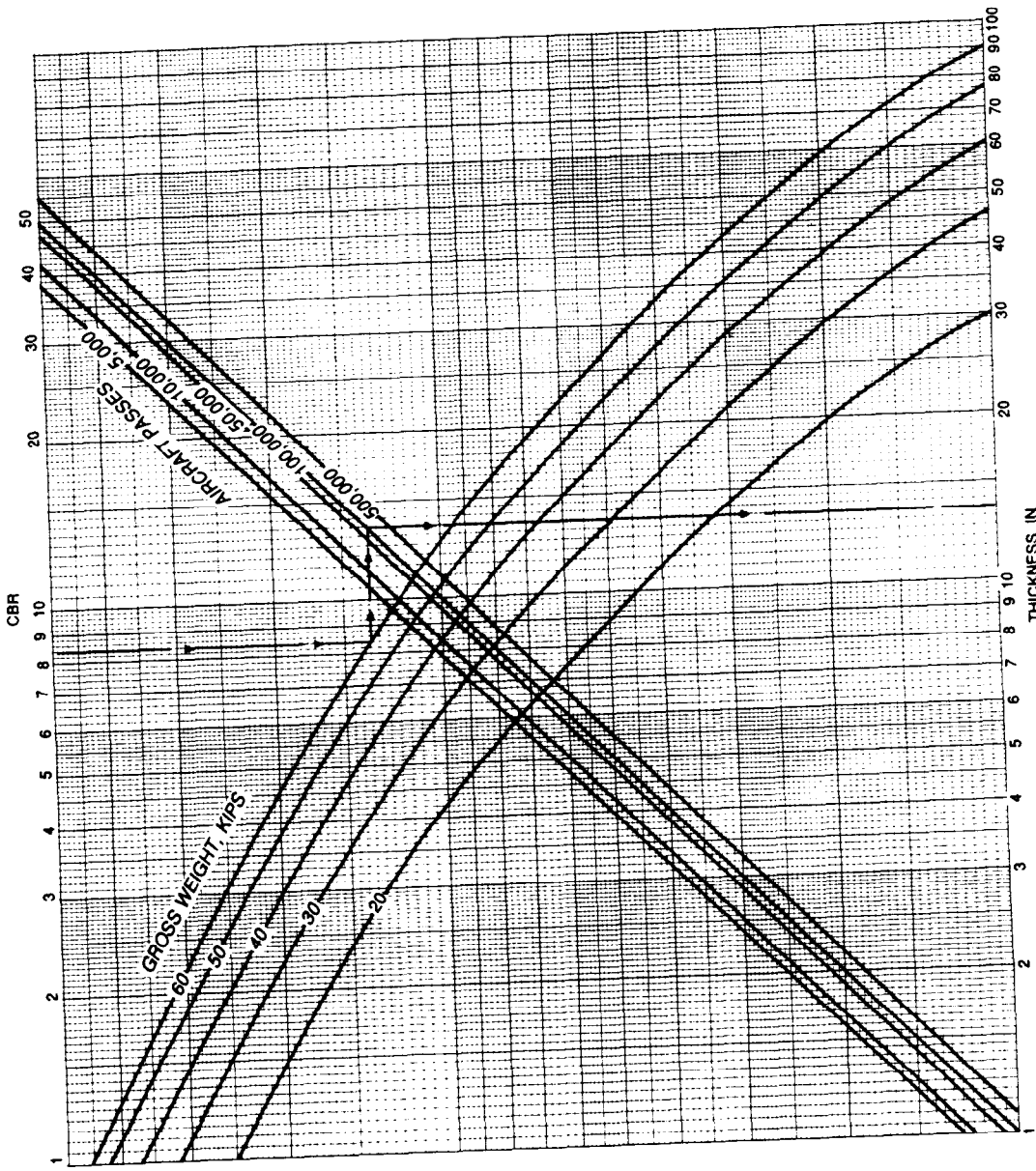
for KISUK CHEUNG, P.E.
Chief, Engineering and Construction Division
Directorate of Military Programs

APPENDIX A

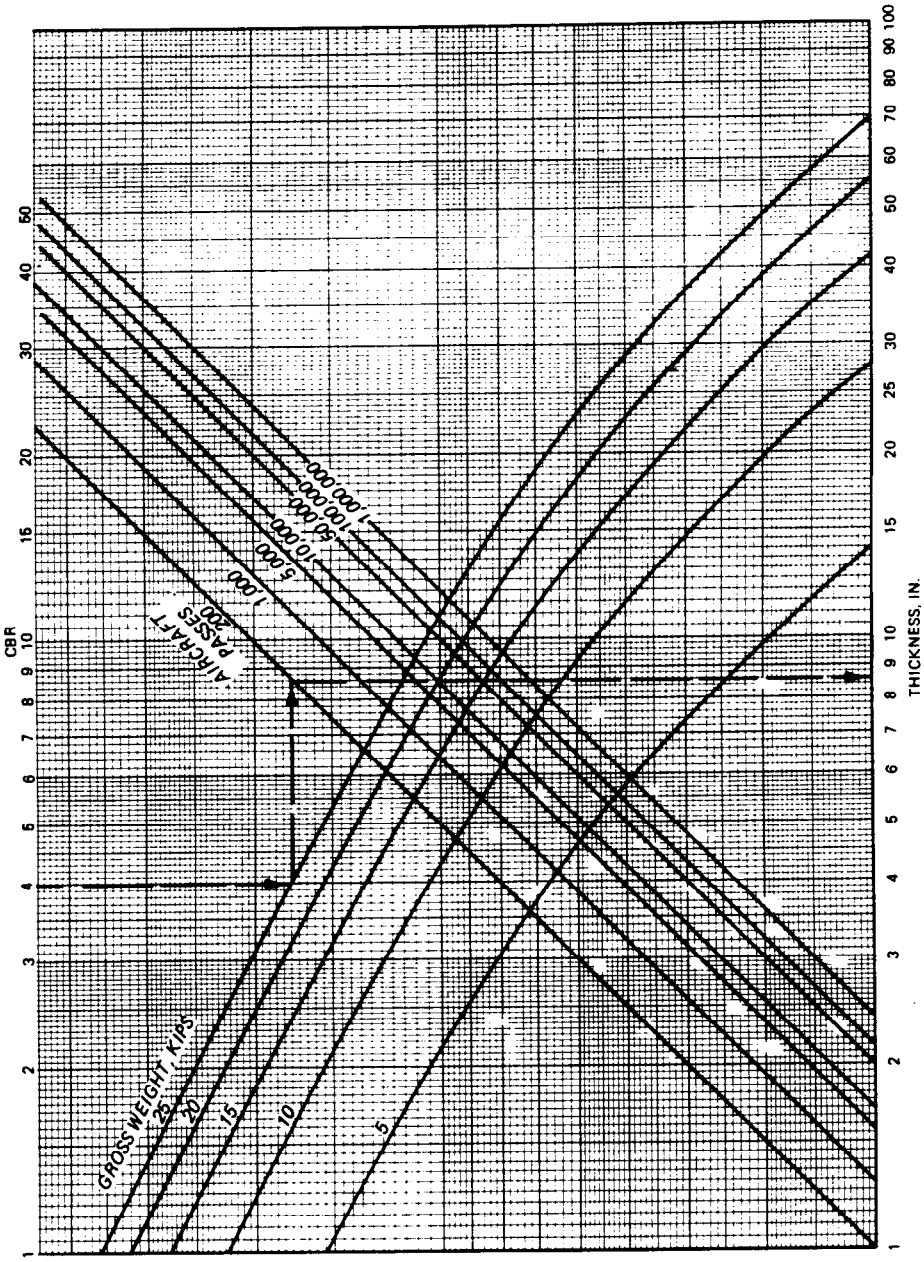
DESIGN CURVES



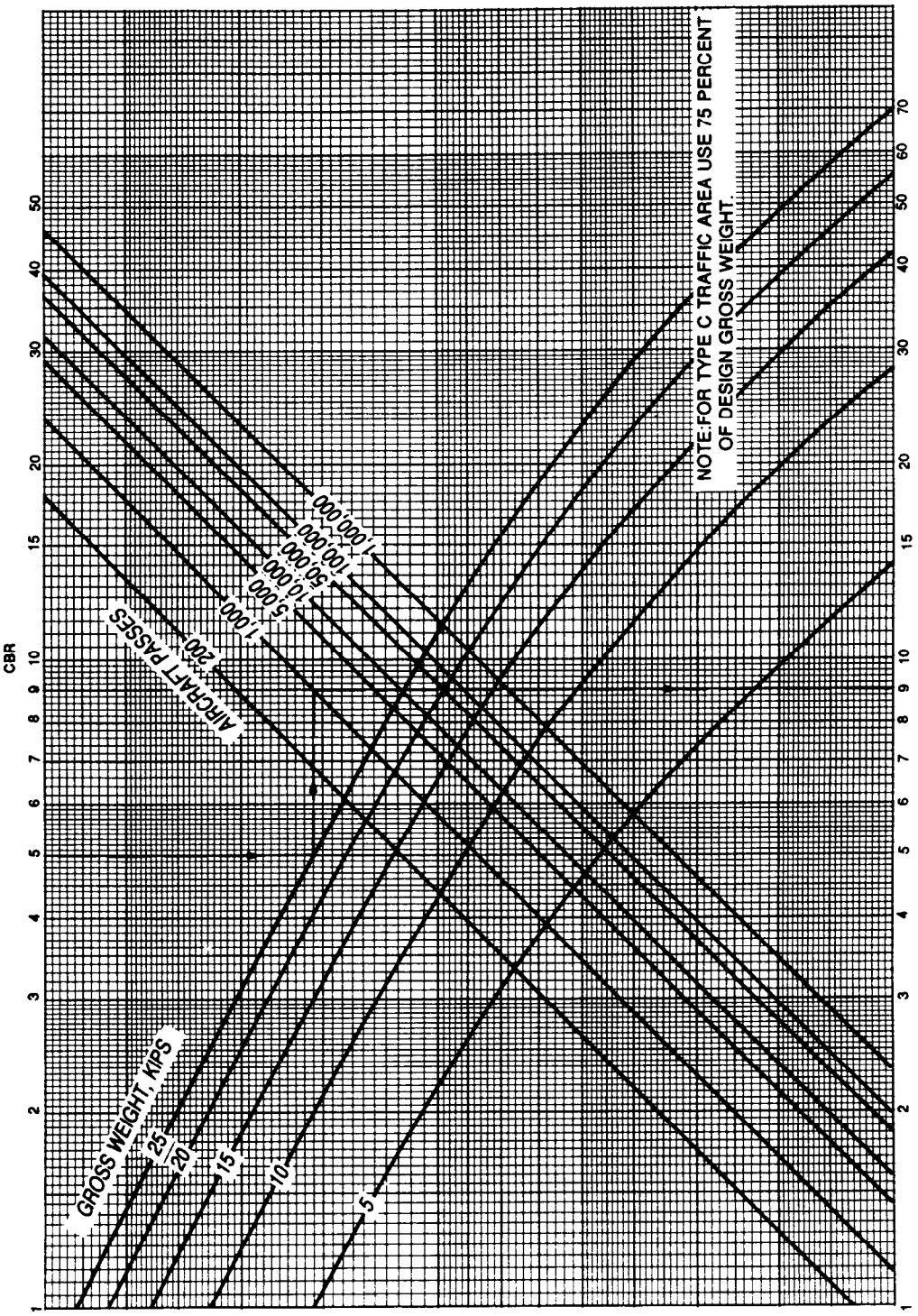
FLEXIBLE PAVEMENT DESIGN CURVE FOR ARMY CLASS I HELIPORTS AND HELIPADS.



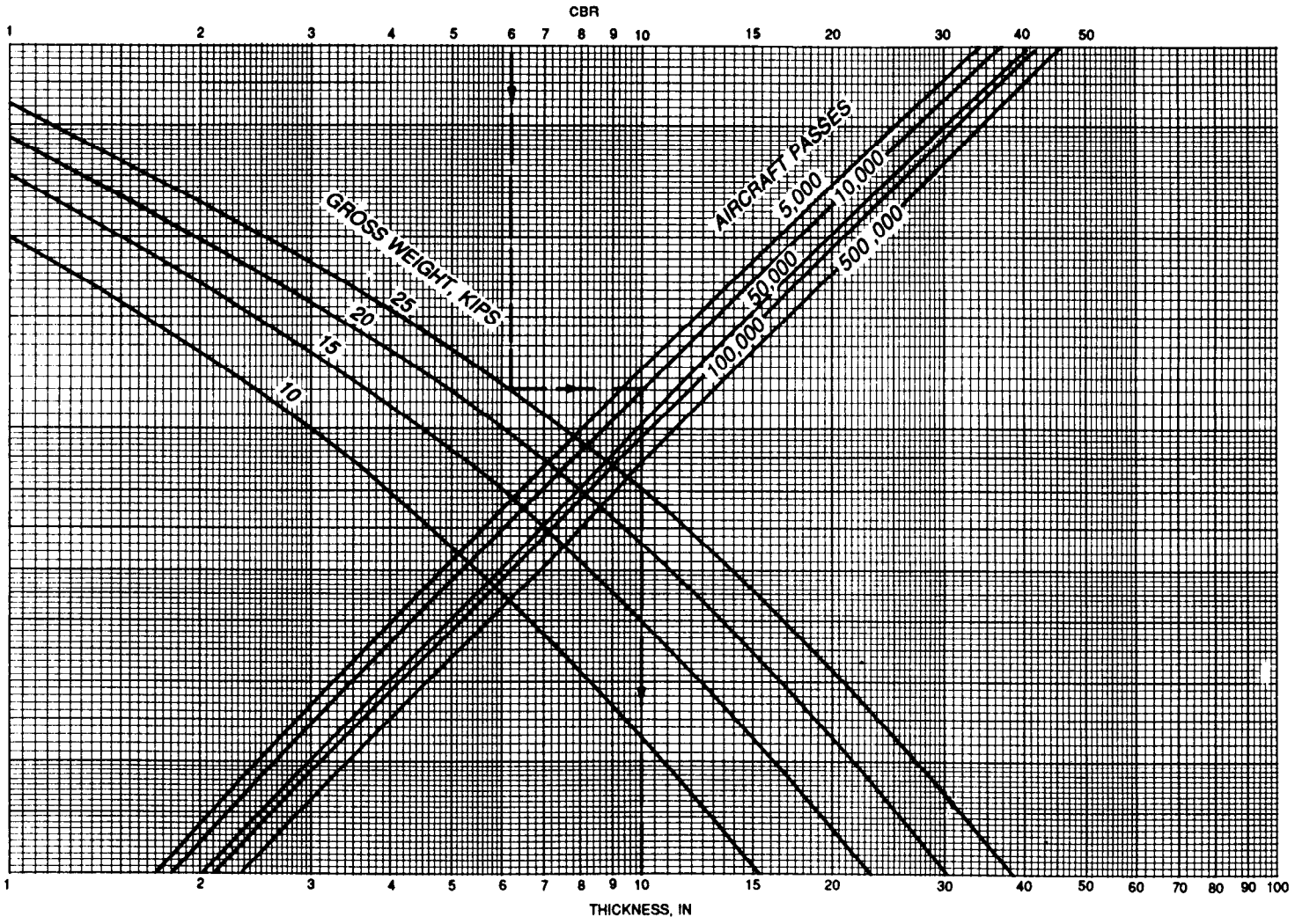
FLEXIBLE PAVEMENT DESIGN CURVE FOR ARMY CLASS II AND IV HELIPORTS AND HELIPADS.



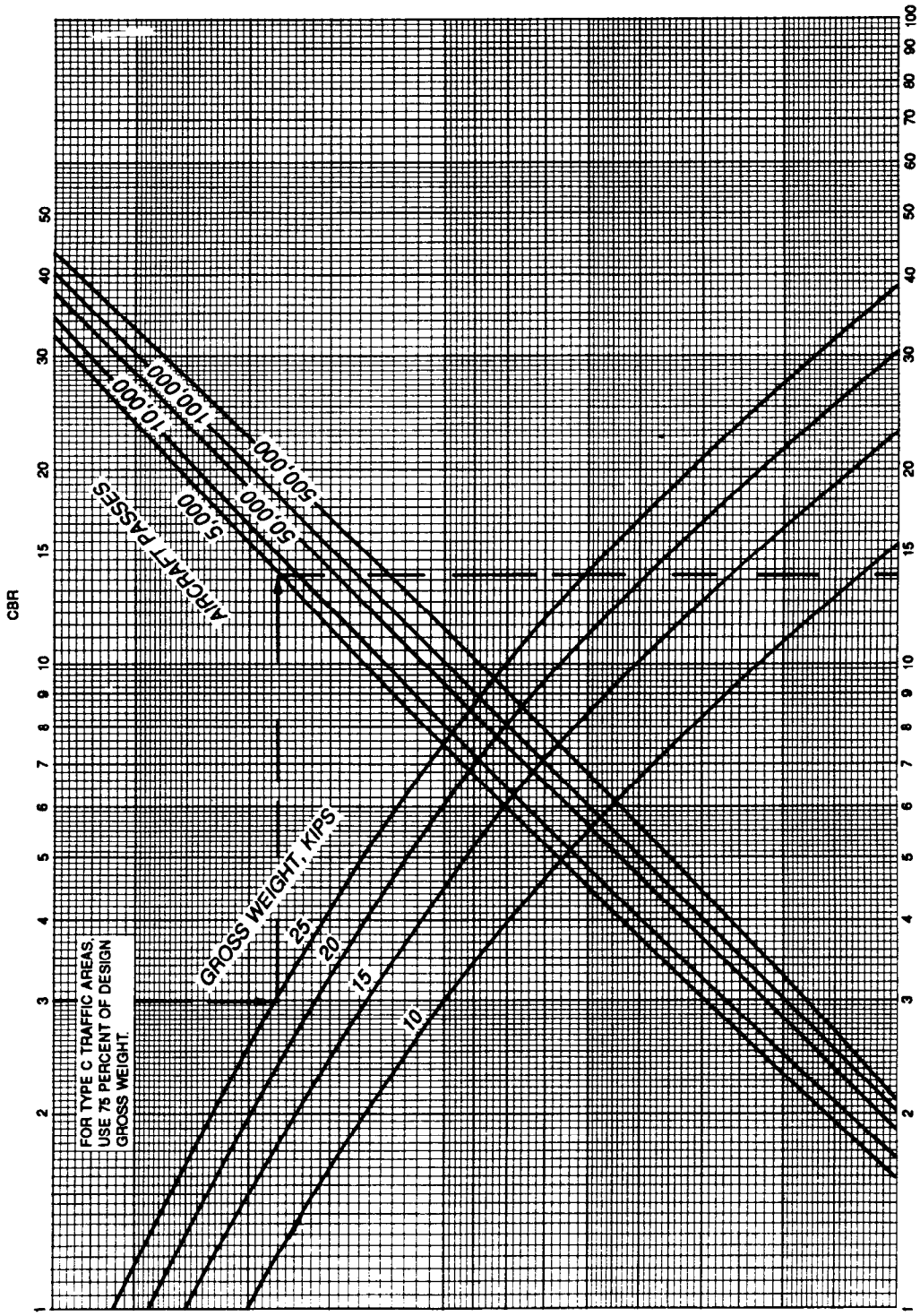
FLEXIBLE PAVEMENT DESIGN CURVES FOR ARMY CLASS III AIRFIELDS WITH RUNWAY ≤ 4,000 FEET. TYPE A TRAFFIC AREAS



FLEXIBLE PAVEMENT DESIGN CURVES FOR ARMY CLASS III AIRFIELDS WITH RUNWAY ≤ 4,000 FEET. TYPE B AND C TRAFFIC AREAS



FLEXIBLE PAVEMENT DESIGN CURVES FOR ARMY CLASS III AIRFIELDS WITH RUNWAY > 4,000 FEET TYPE A TRAFFIC AREAS.



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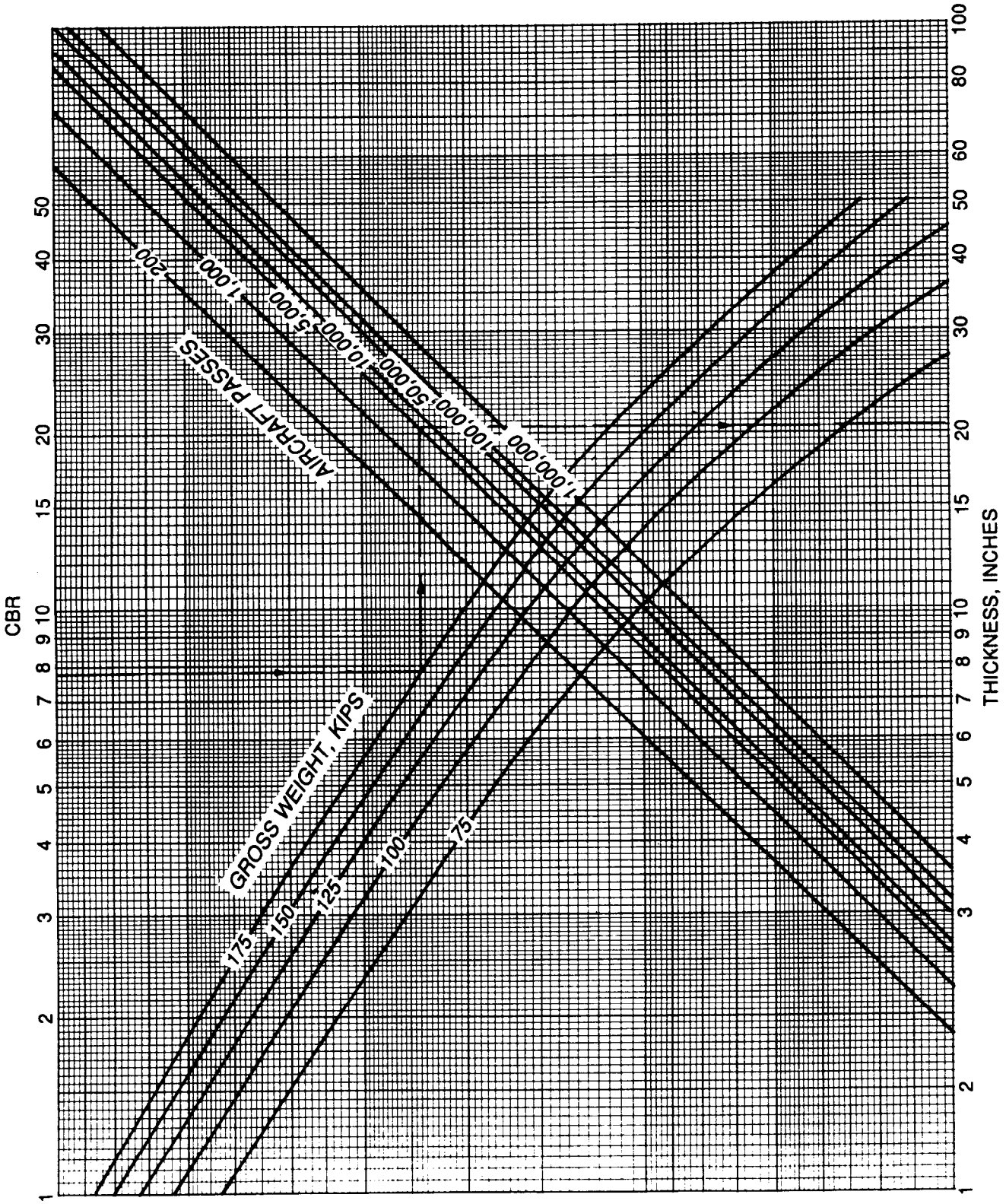
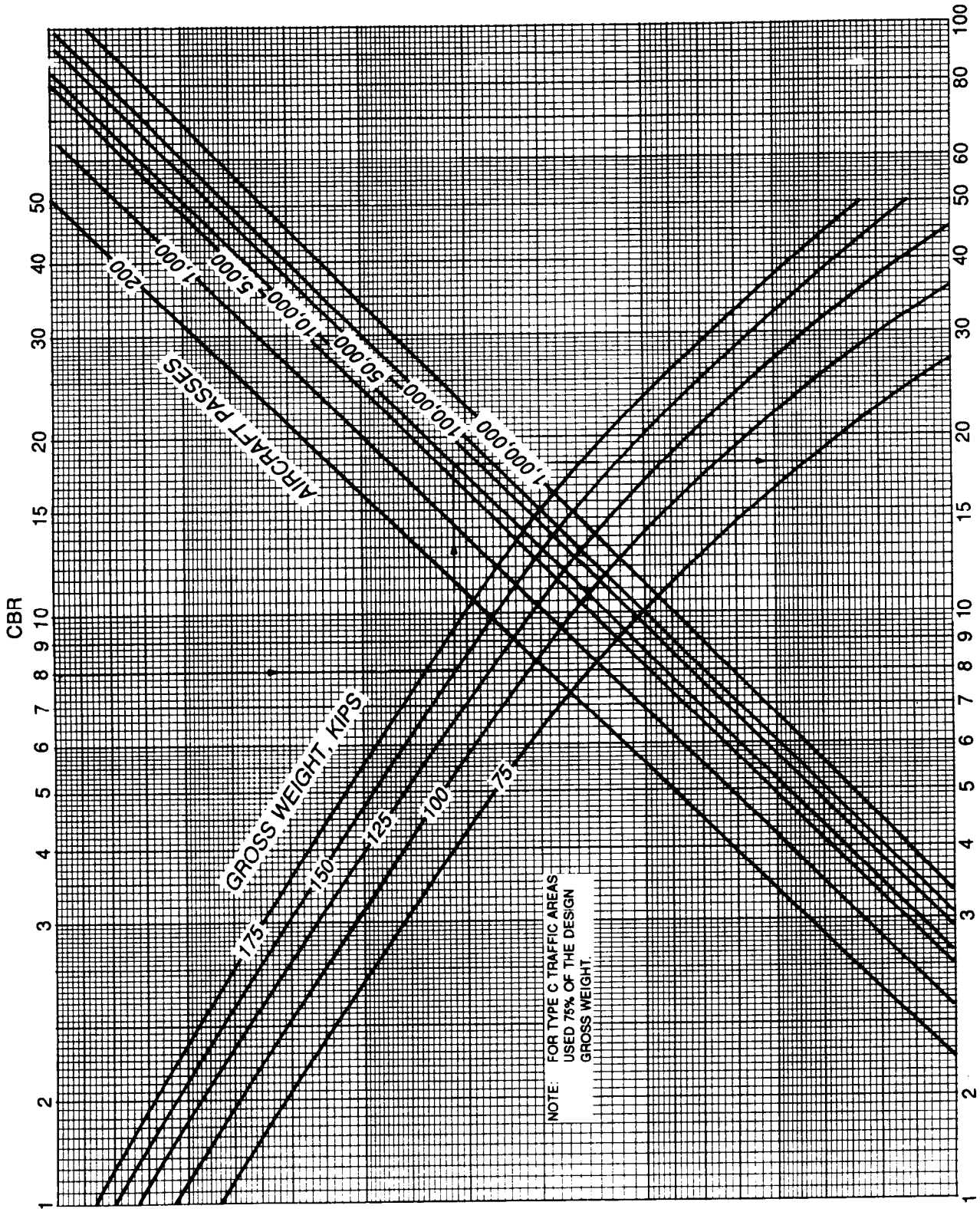


FLEXIBLE PAVEMENT DESIGN CURVES FOR ARMY CLASS IV AIRFIELDS WITH RUNWAY ≤ 5,000 FEET. TYPE A TRAFFIC AREAS.



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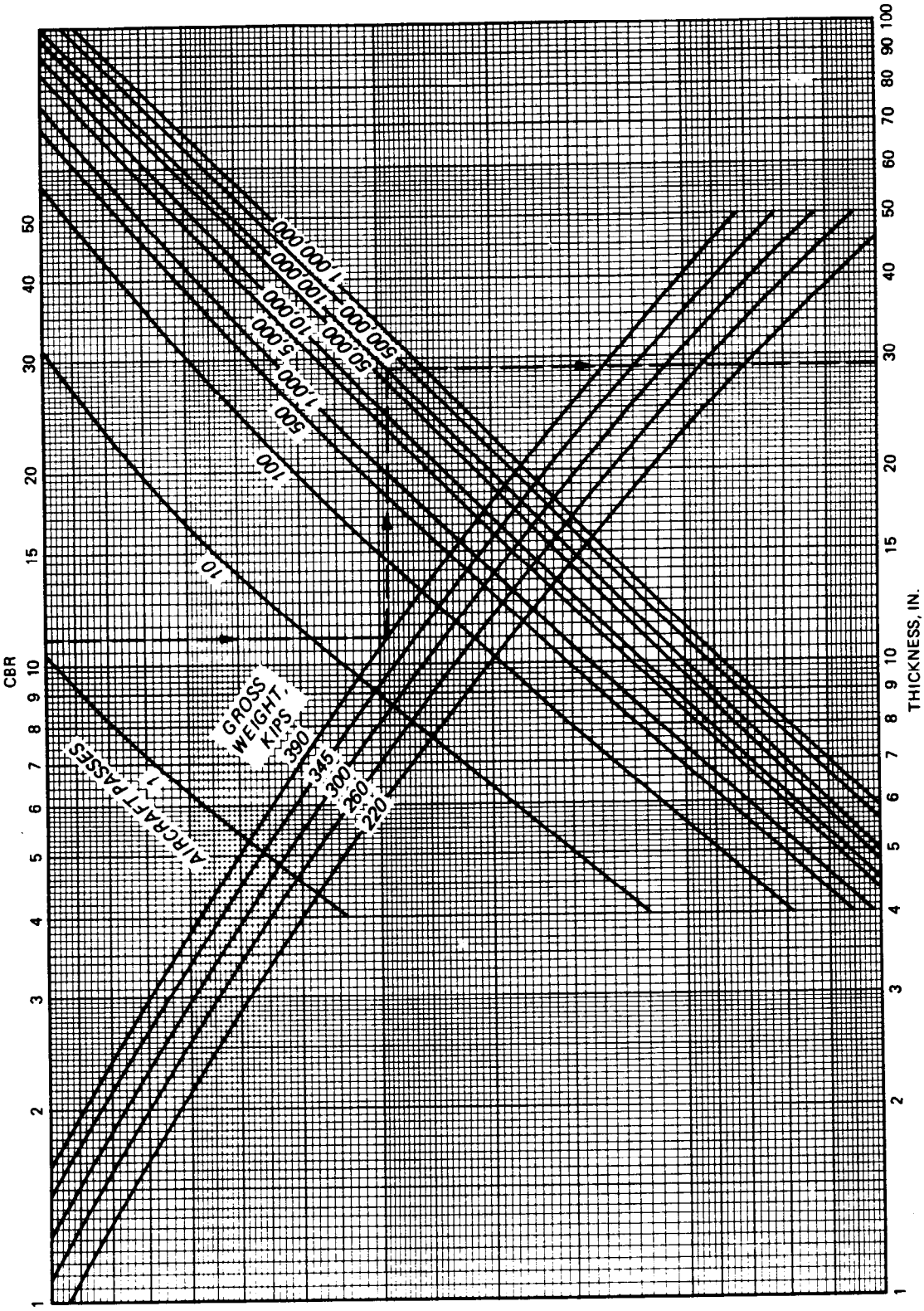

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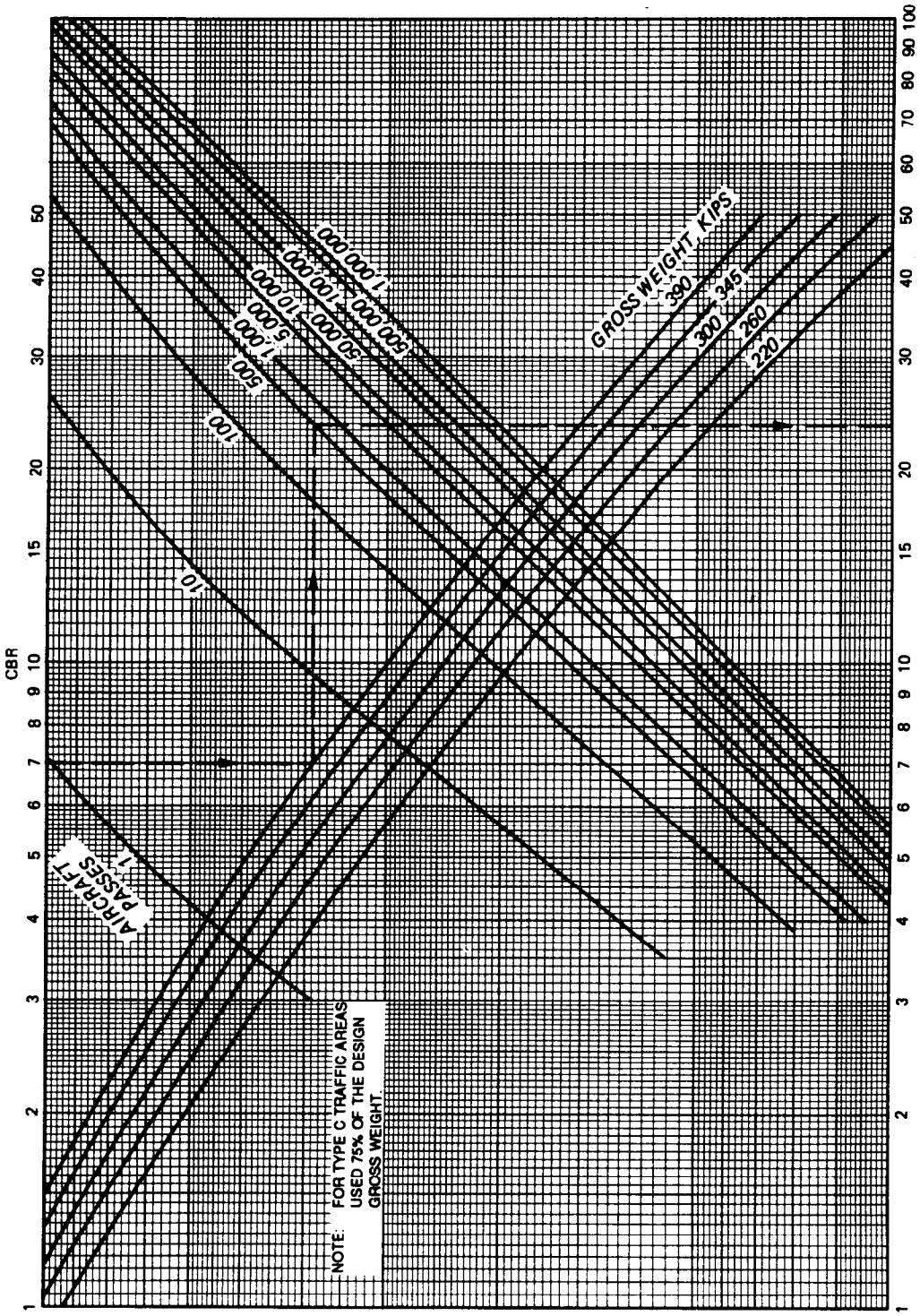

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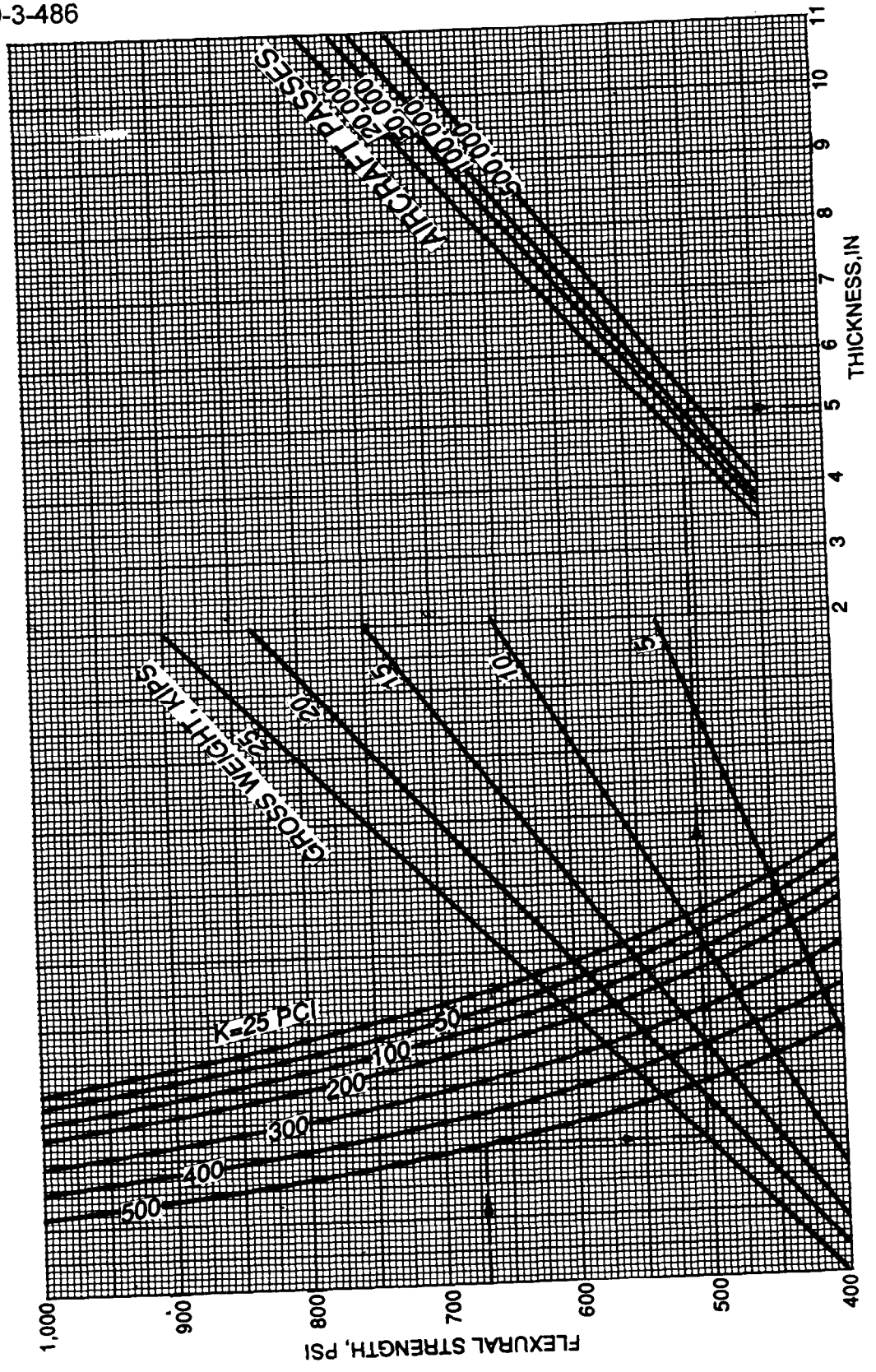
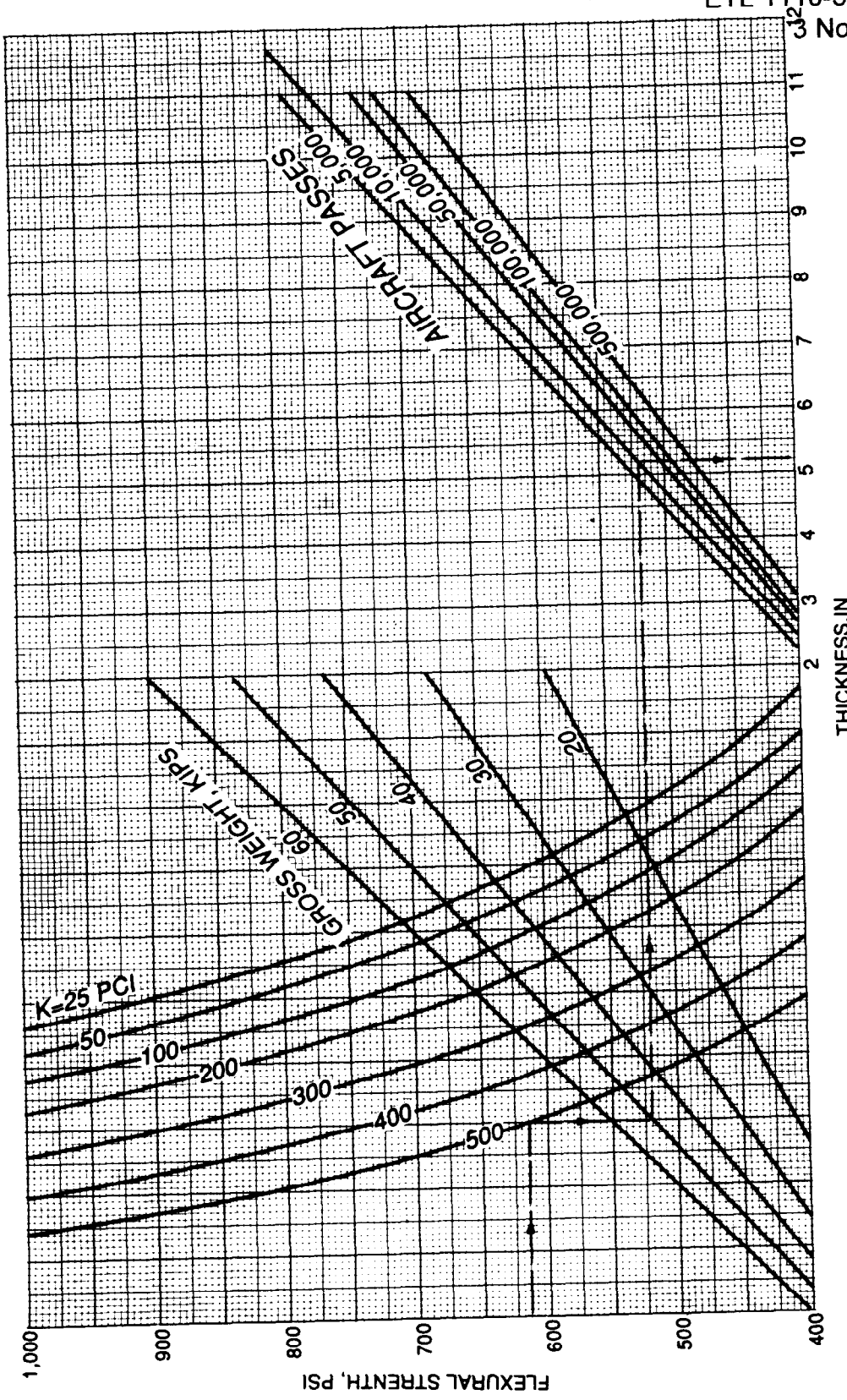
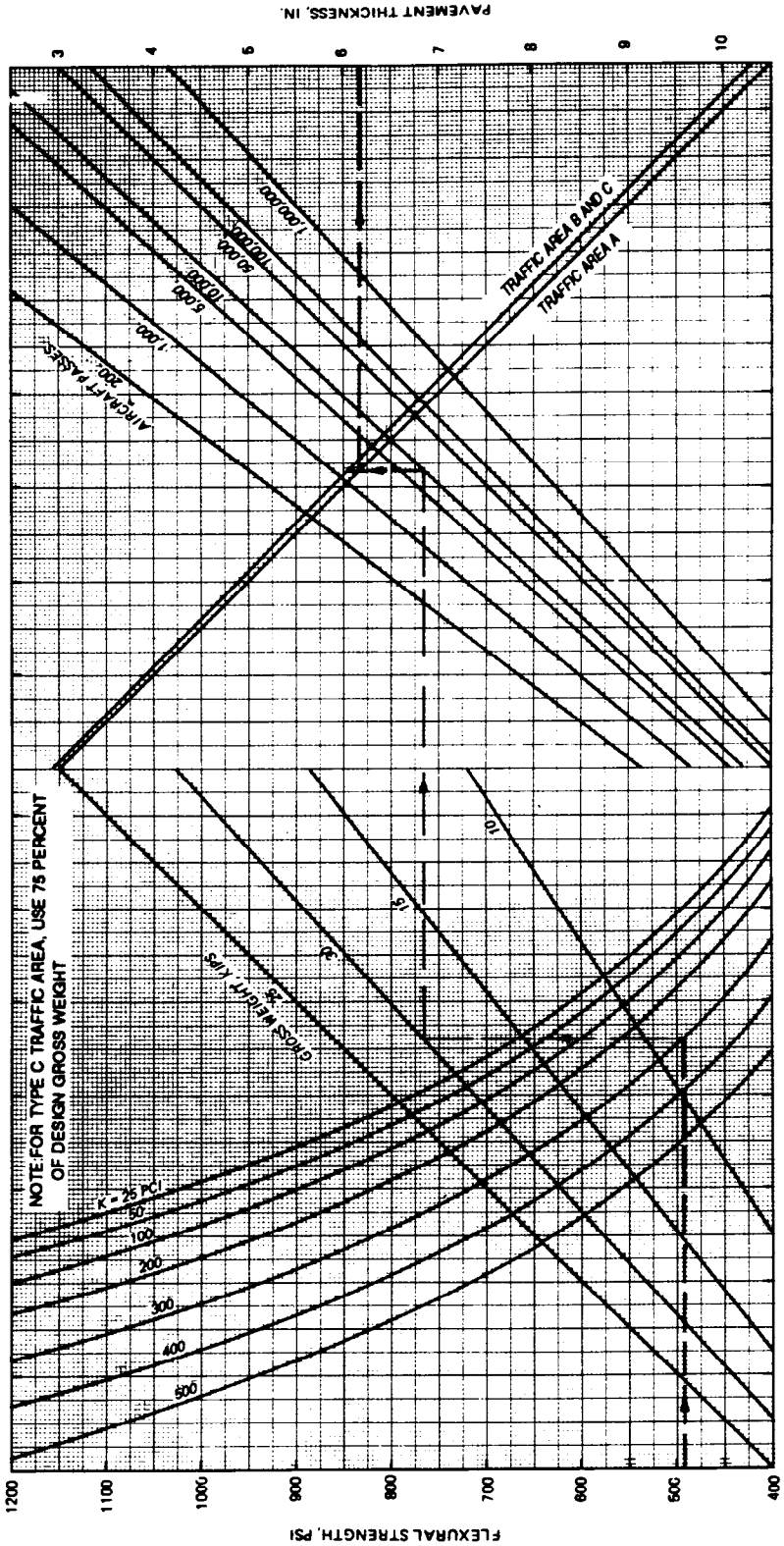


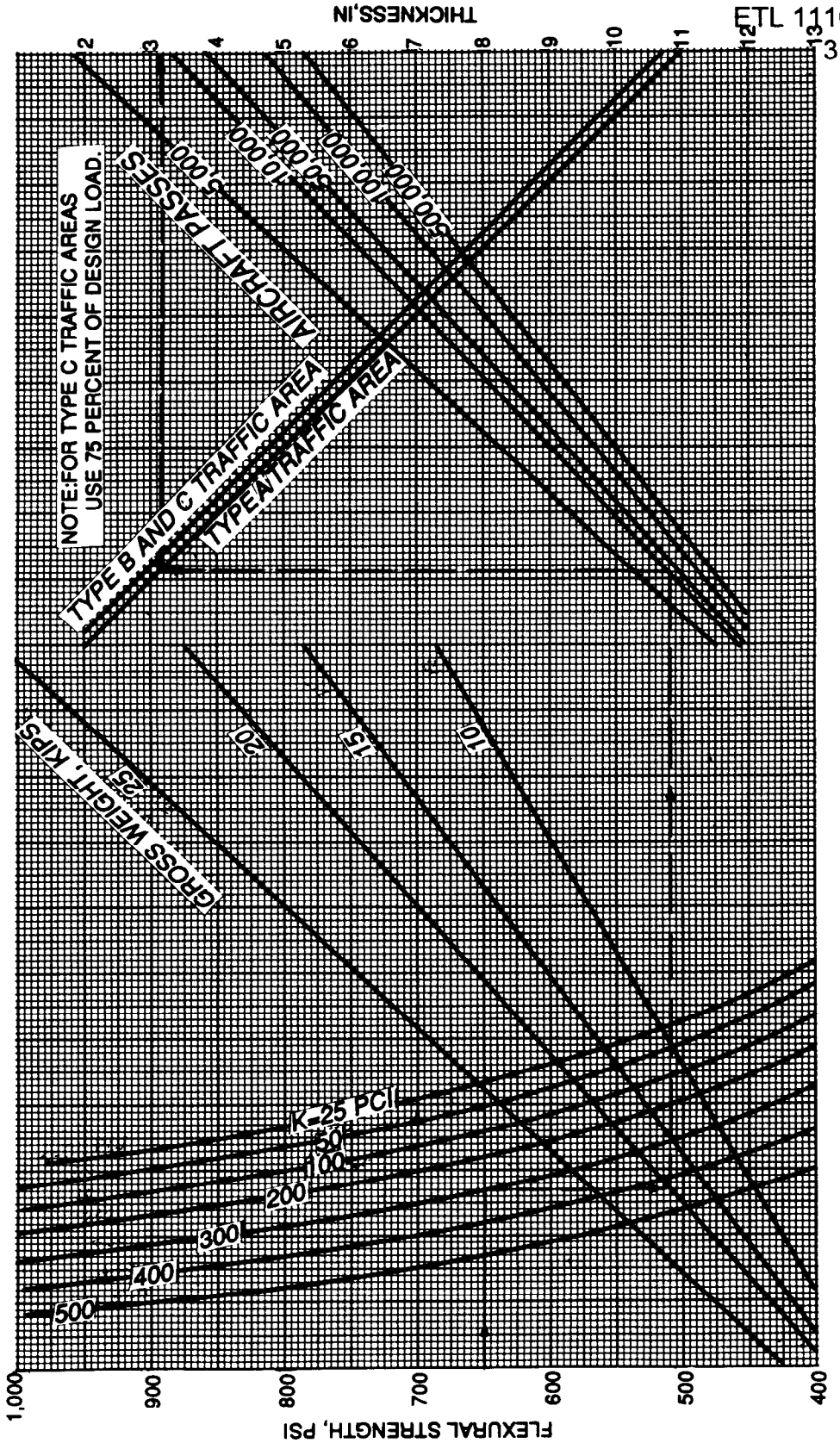
RIGID PAVEMENT DESIGN CURVE FOR ARMY CLASS I HELIPORTS AND HELIPADS.



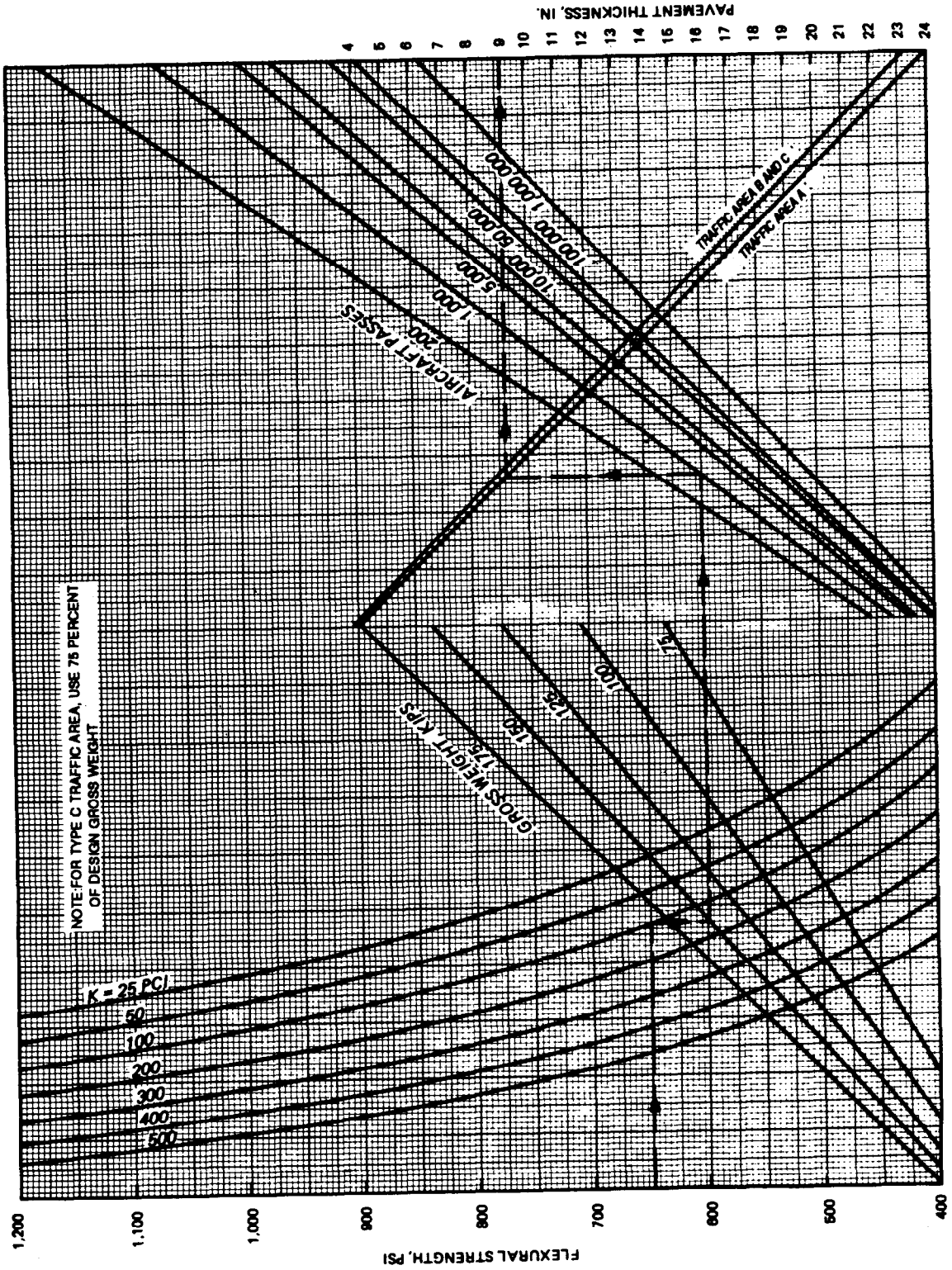
RIGID PAVEMENT DESIGN CURVE FOR ARMY CLASS II AND V HELIPORTS AND HELIPADS



RIGID PAVEMENT DESIGN CURVE FOR ARMY CLASS III AIRFIELD WITH RUNWAY ≤ 4,000 FEET



RIGID PAVEMENT DESIGN CURVE FOR ARMY CLASS III AIRFIELDS
WITH RUNWAY > 4,000 FEET.



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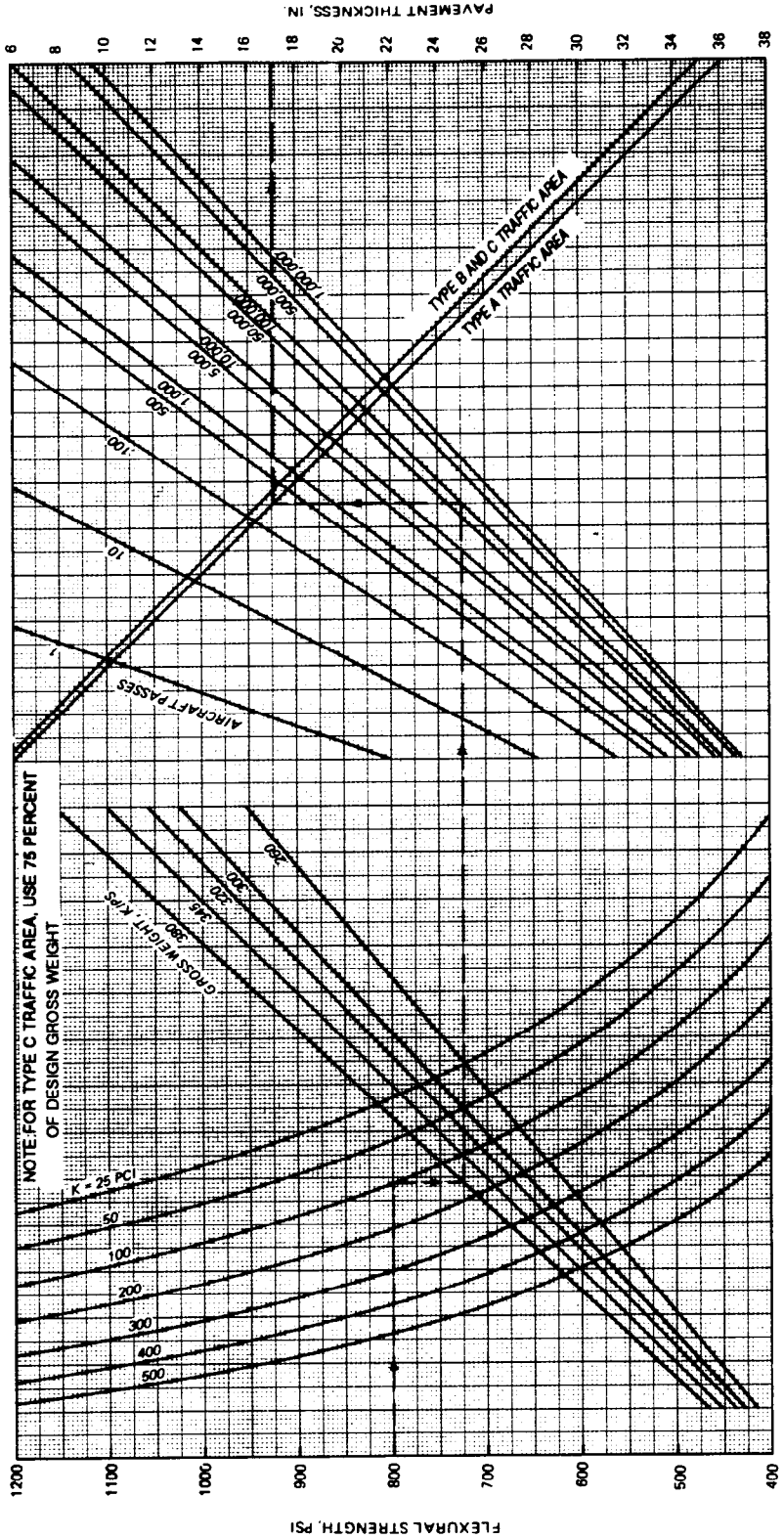

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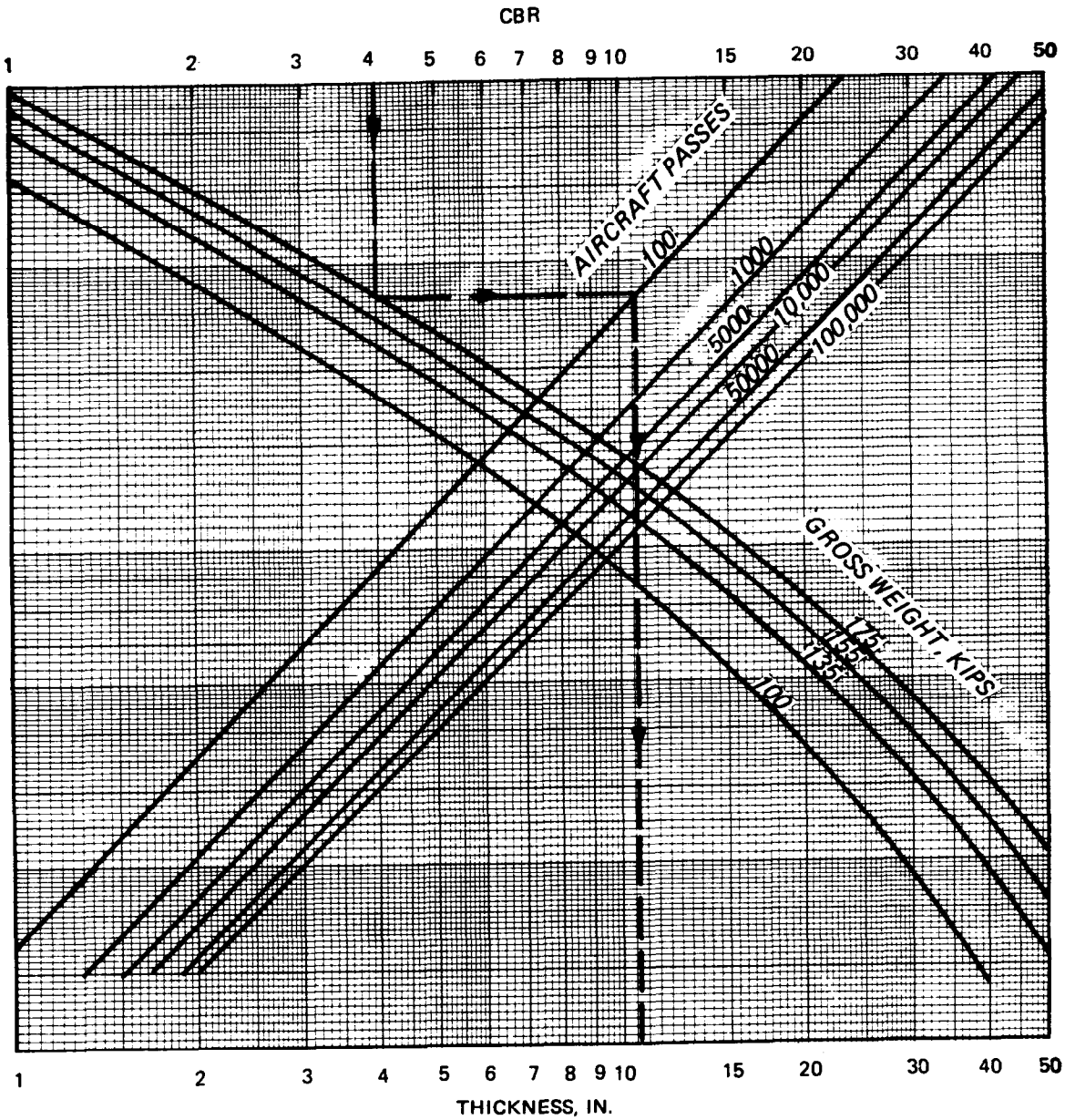

AGGREGATE SURFACE DESIGN CURVES FOR ARMY CLASS VI AIRFIELDS.