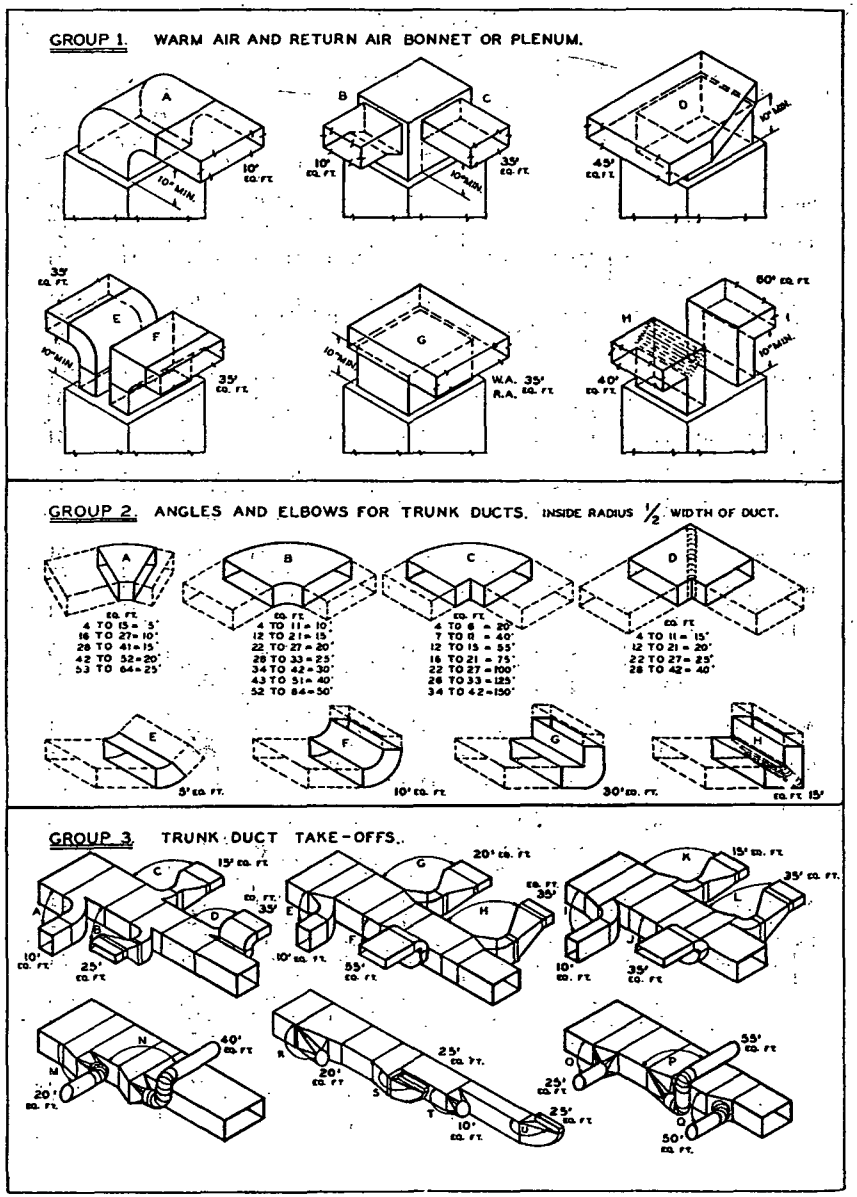
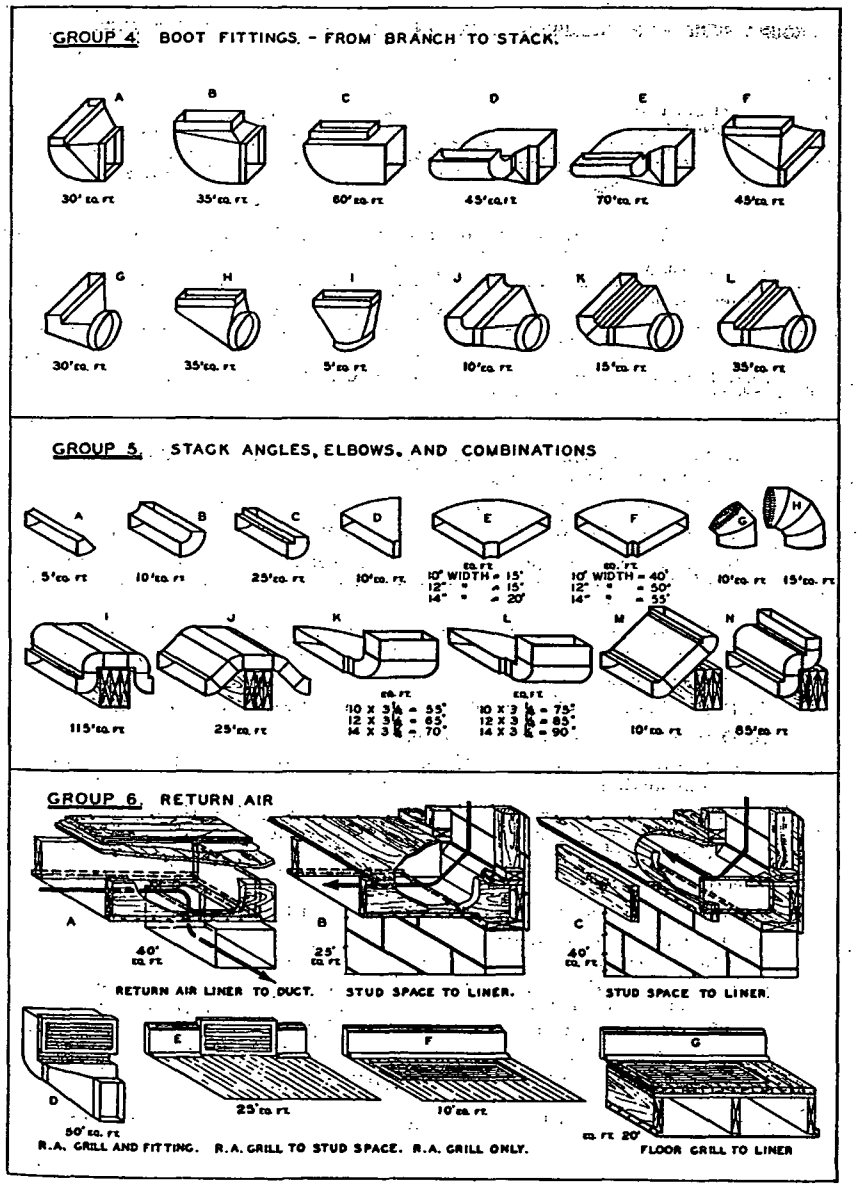
FIG. 3. EQUIVALENT LENGTH OF FITTINGS



bonnet pressure is not high enough to accommodate the pressure loss through the registers, use a higher bonnet pressure. If the register pressure is critically large, it may be necessary to reduce it by either using two registers in place of one, or using smaller deflection angles.

b. Obtain actual duct loss by subtracting register pressure loss from maximum bonnet pressure.

FIG. 3. EQUIVALENT LENGTH OF FITTINGS (Continued)



c. Obtain the pressure drop in each duct per 100 ft by use of Table 10.

d. Determine duct size by means of air friction chart (such as Fig. 1, Chapter 31), volume (cfm), and pressure drop per 100 ft of duct.

B. *Return air branches.*

a. Select a low value of actual duct loss obtained from step b under item A for the suction loss of return duct system.