FIGURE A3—DETERMINATIONS OF MINIMUM DESIGN SPEEDS—EQUATIONS
speeds are in knots

$$V_{D\ min} = 24.0 \sqrt{n_1 \frac{W}{S}} \text{ but need not exceed}$$

$$1.4 \sqrt{\frac{n_1}{3.8}} V_{C\ min};$$

$$V_{C\ min} = 17.0 \sqrt{n_1 \frac{W}{S}} \text{ but need not exceed}$$

$$0.9\ V_H: \quad V_{A\ min} = 15.0 \sqrt{n_1 \frac{W}{S}} \text{ but need not exceed } V_C \text{ used}$$

$$\text{in design.} \quad V_{F\ min} = 11.0 \sqrt{n_1 \frac{W}{S}}$$