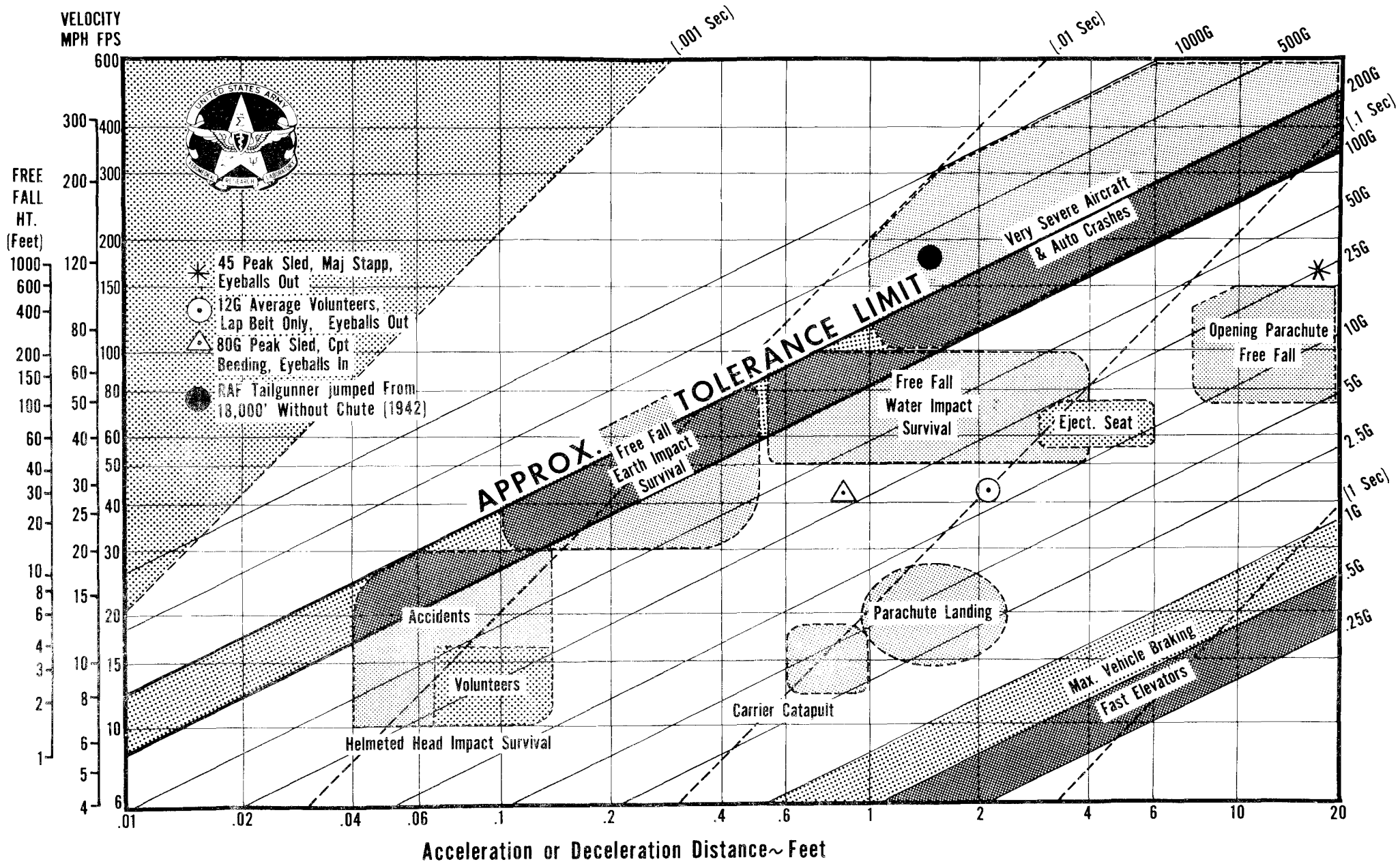


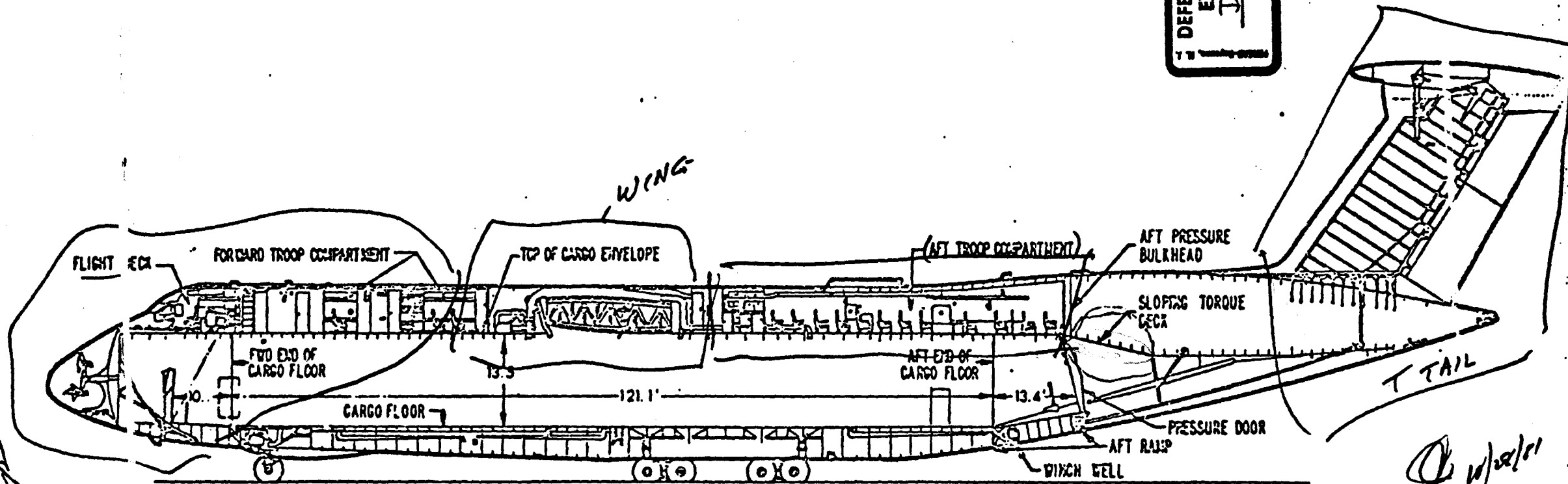


Comparison of Velocity, Stopping Distance, Average G, & Time to Human Tolerance

TABLE 2. ESTIMATED BLOOD GAS VALUES in CHILDREN
DURING ACUTE DECOMPRESSION AT ALTITUDE
(Infant/Child Values)

Altitude	Time	$P_A aCO_2$	$P_A O_2$	PaO_2	$PjvO_2$	SaO_2	$SjvO_2$	CaO_2	$CjvO_2$	$Ca-jvO_2$
<u>Ft.</u>	<u>min.</u>	<u>mmHg</u>	<u>mmHg</u>	<u>mmHg</u>	<u>mmHg</u>	<u>%</u>	<u>%</u>	<u>ml/dl</u>	<u>ml/dl</u>	<u>ml/dl</u>
23,400	.25	28	26	24	18	51	30	6.8	4.0	2.8
20,000	1.75	25	38	30	20	63	35	8.2	4.7	3.5
15,000	4.75	28	51	42	25	82	46	10.7	6.2	4.5
10,000	7.88	31	66	56	27	89	51	11.9	6.9	5.0
5,000		33	84	74	30	94	57	12.6	7.6	5.0

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$$R = 71$$

$$\text{RPM} = 35$$

$$\omega = \frac{35 \times 2\pi}{60}$$

$$a_n = \omega^2 R$$

$$= \left[\frac{35 \times 2\pi}{60} \right]^2 \times 71$$

$$\approx 36 \times 71 \approx \underline{280 \text{ ft/sec}^2}$$

$$\approx 8g$$

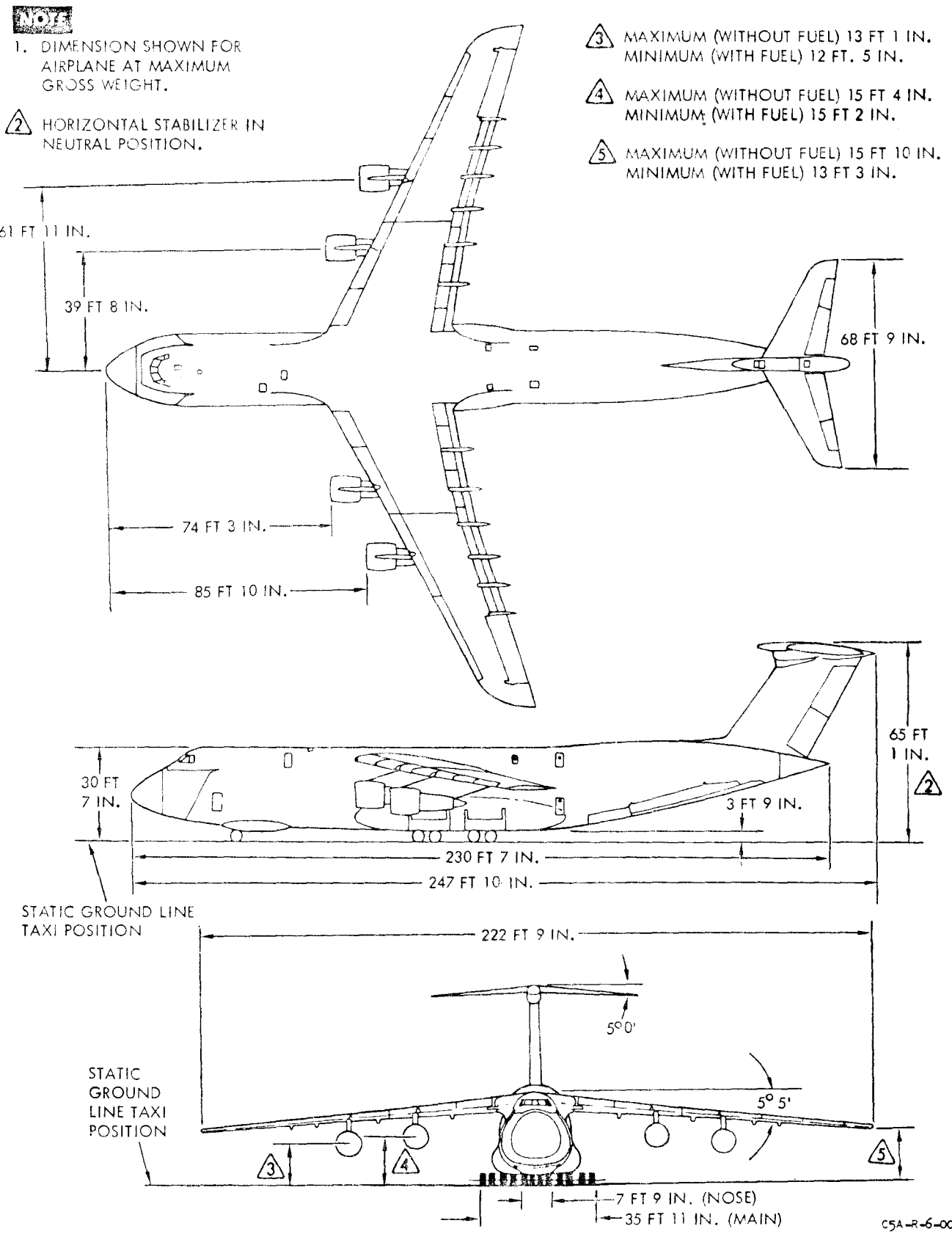


Figure 1-1. Airplane Dimensions

NOTE

1. DIMENSION SHOWN FOR AIRPLANE AT MAXIMUM GROSS WEIGHT.

△2 HORIZONTAL STABILIZER IN NEUTRAL POSITION.

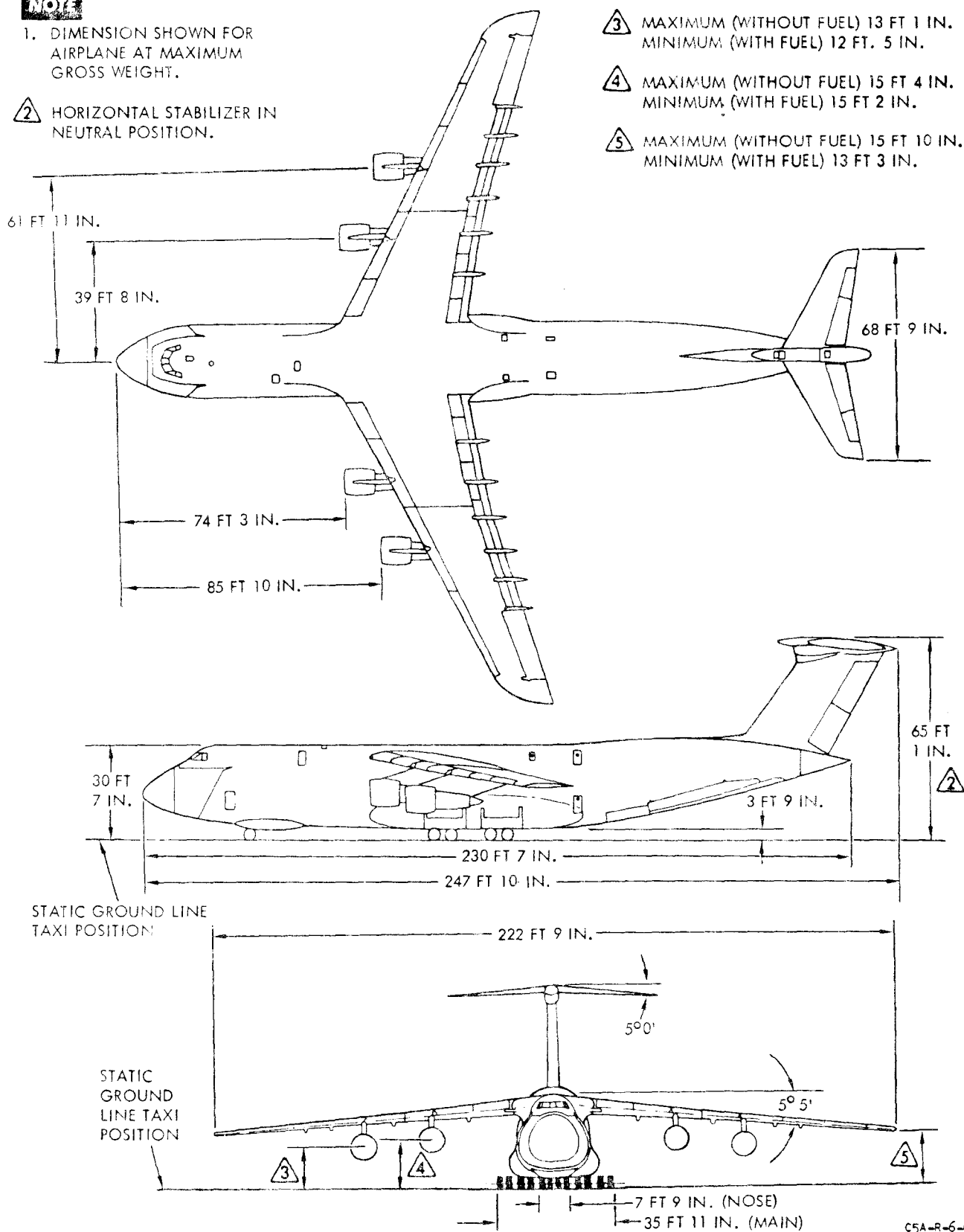
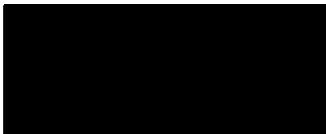


Figure 1-1. Airplane Dimensions



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