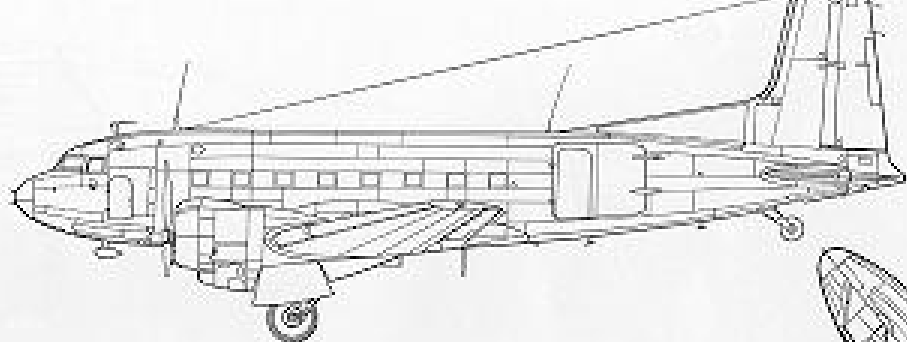


DC3

PME2554 Introdução às Estruturas Aeronáuticas





Specification

Douglas C-117D

Wingspan.....90 feet (27.4 m)
Length.....67 feet 9 inches (20.6 m)
Height.....18 feet 3 inches (5.5 m)
Empty Weight.....19,537 pounds (8,861.9 kg)
Maximum Weight.....31,000 pounds (14,061.8 kg)

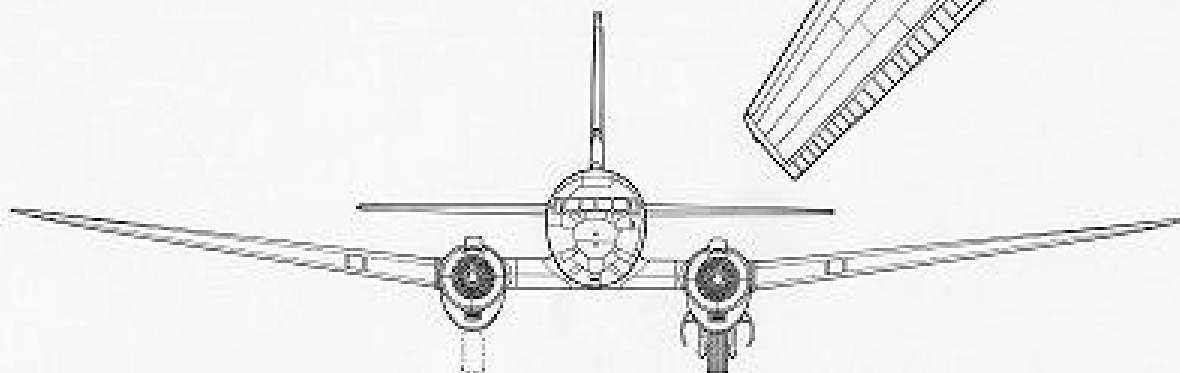
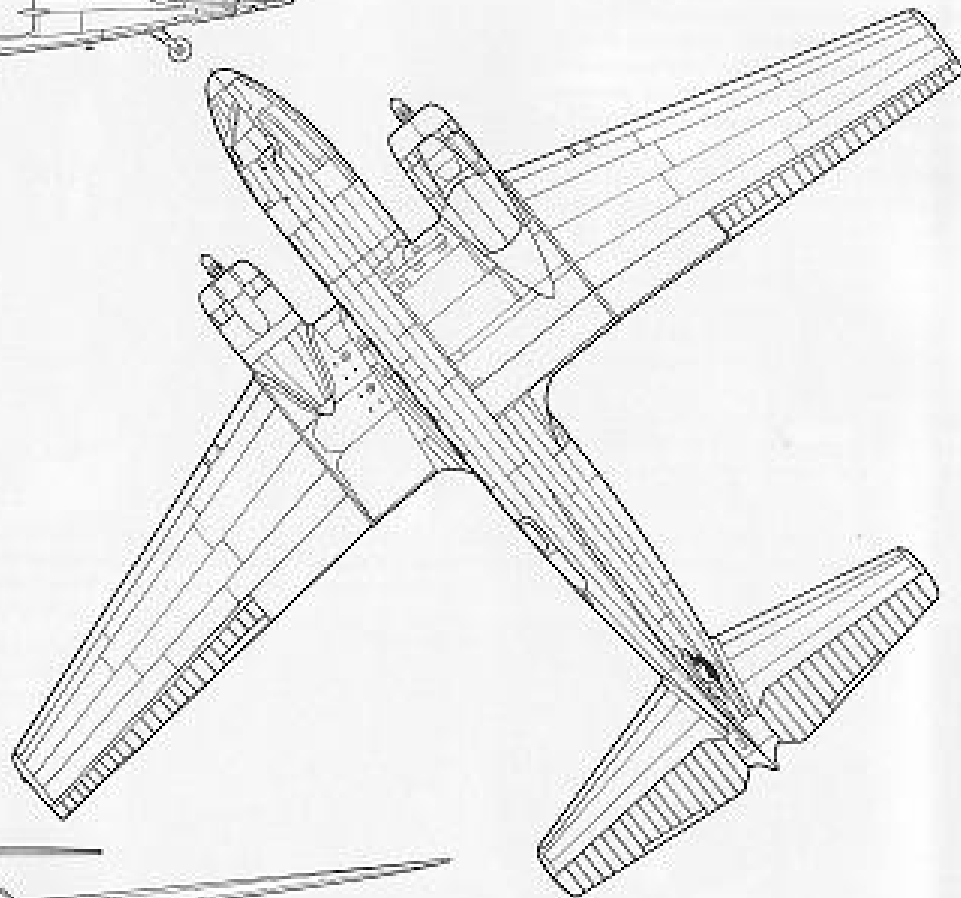
Power plant.....Two 1,475 hp Wright R-1820-80
radial engines

Armament.....None

Speed.....270 mph (434.5 kph)

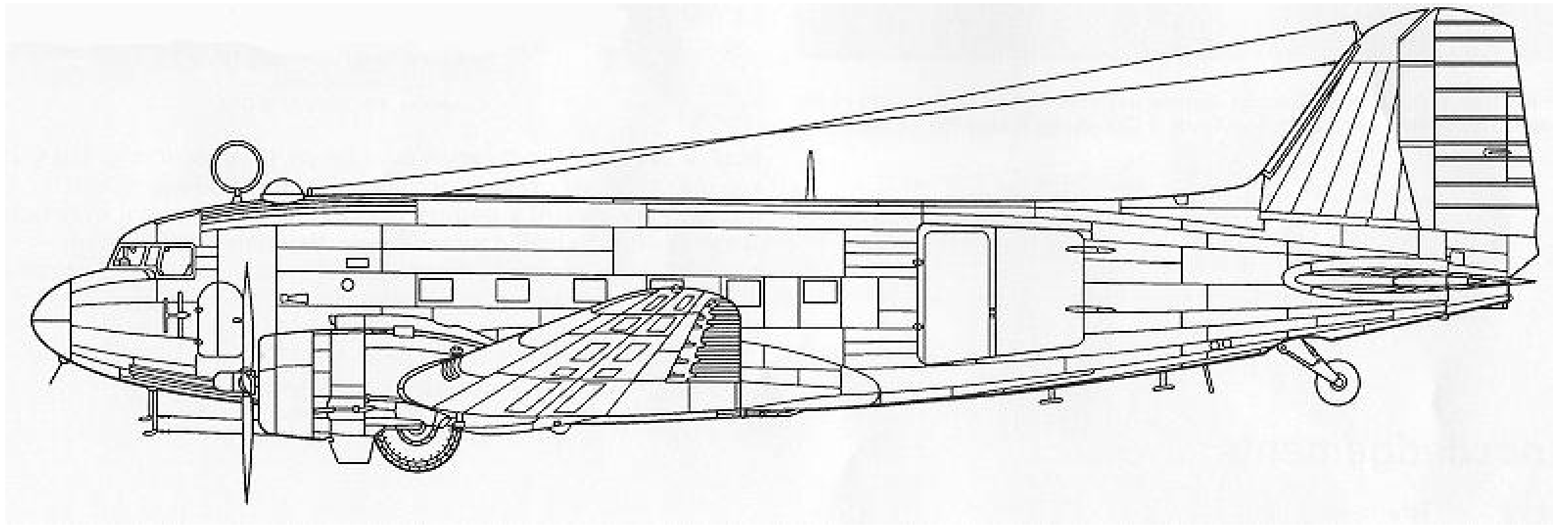
Range.....2,500 miles (4,023.2 km)

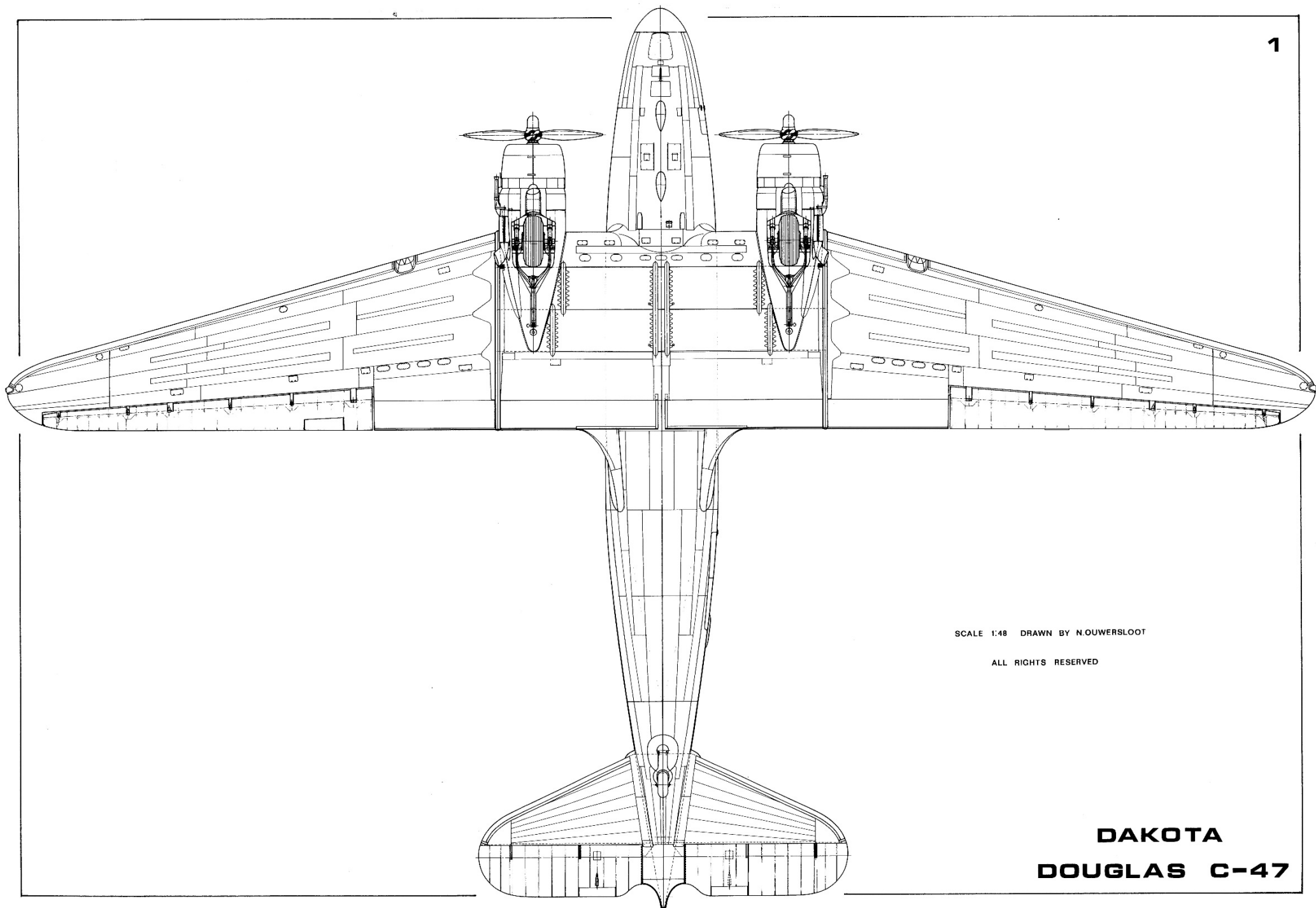
Crew.....Four



Especificações

Altura (3 apoios)		17 ft
Comprimento total		64 ft 5.5 in
Asas	envergadura	94 ft 6.297 in
	área	987 sq. ft.
	carregamento	25.5 lbs per sq. ft.
	corda (na seção central)	14 ft 2 in
Diedro	asa externa	5 degrees
Ângulo de ataque		2 degrees
Razão de aspecto		8:14
Peso em vazio		16,964 lbs
Carga útil na decolagem		8,236 lbs
Peso total padrão		24,400 lbs
Peso total máximo na decolagem		25,200 lbs
Motores	(Pratt and Whitney 1830)	1200 H.P. na decolagem



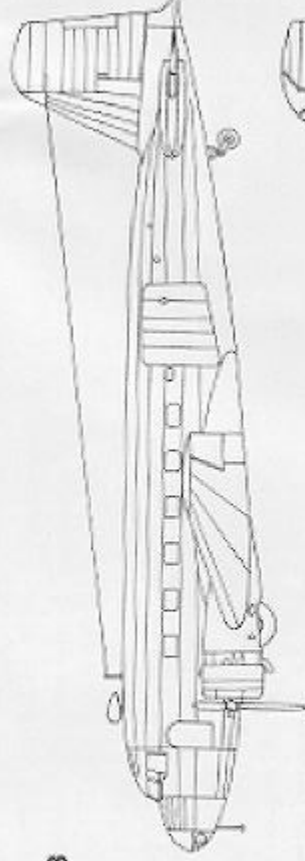


SCALE 1:48 DRAWN BY N.OUWERSLOOT
ALL RIGHTS RESERVED

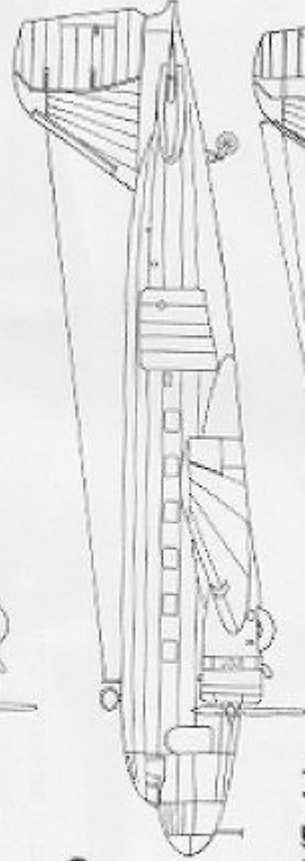
DAKOTA
DOUGLAS C-47

Development

C-33



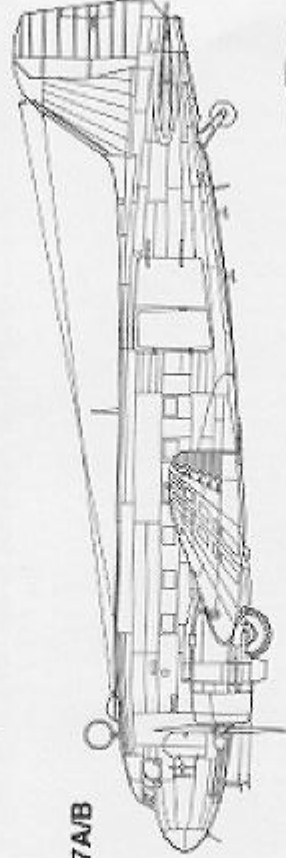
C-39



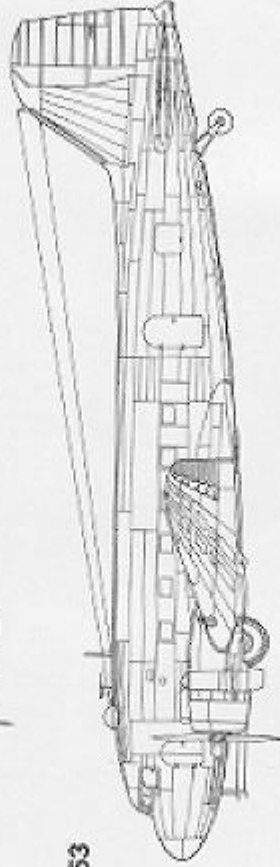
C-47 (Early)



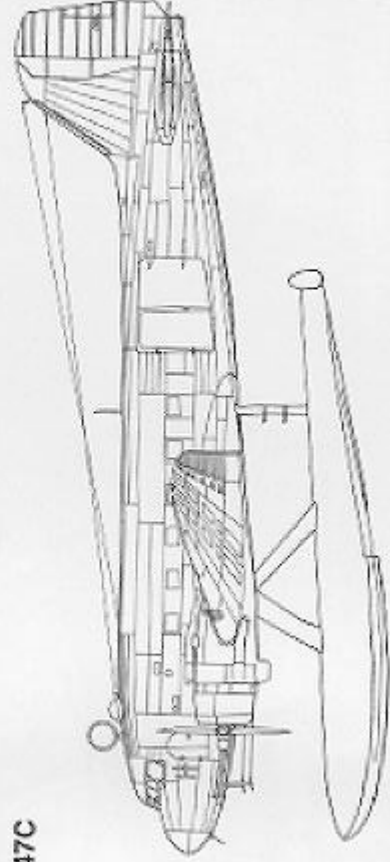
C-47A/B



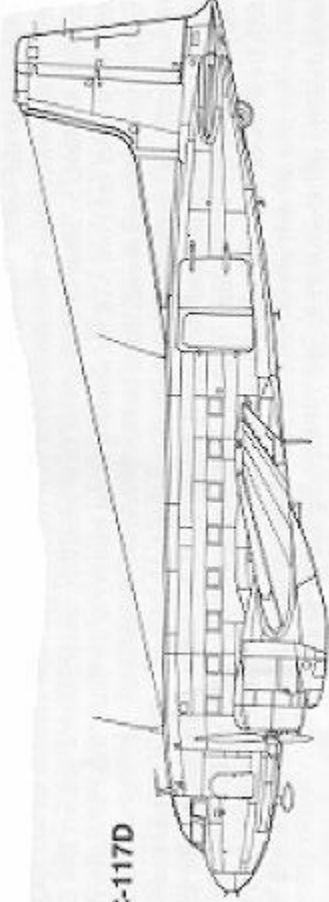
C-53



XC-47C

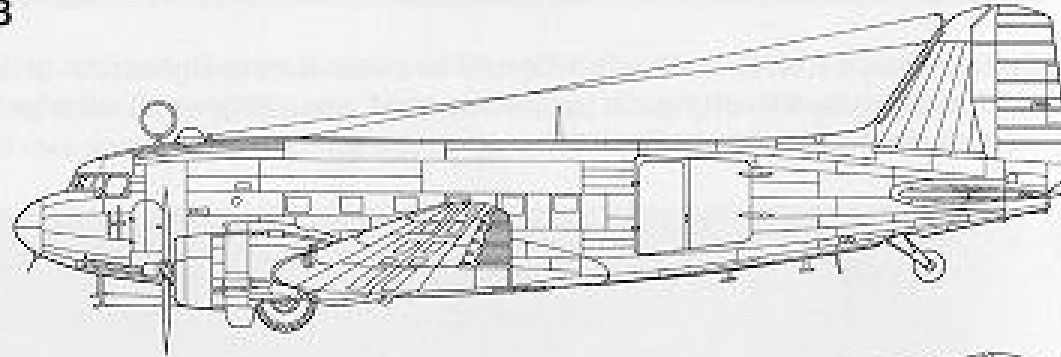


C-117D



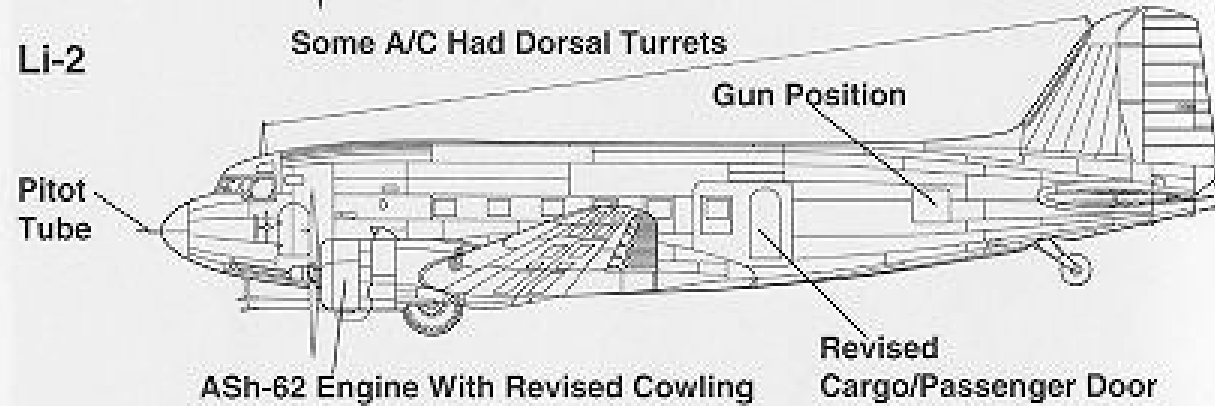
Fuseiage Development

C-47A/B



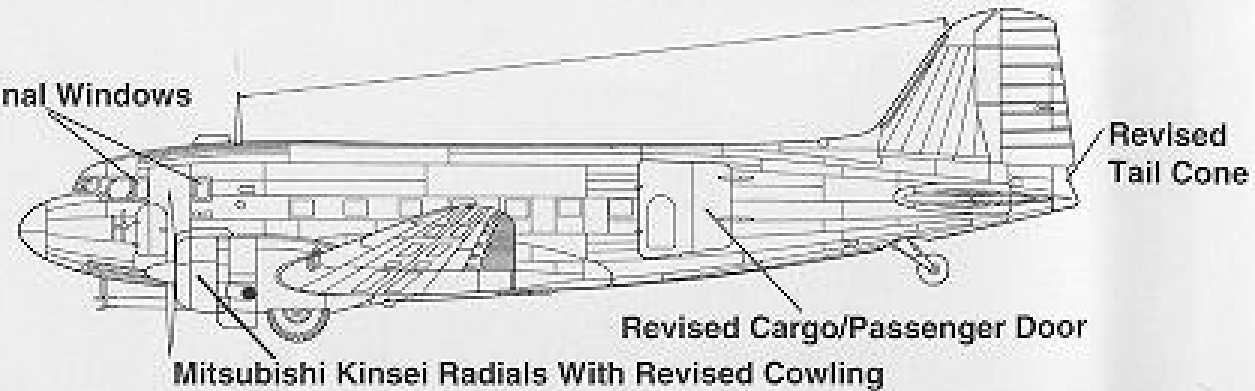
Li-2

Some A/C Had Dorsal Turrets



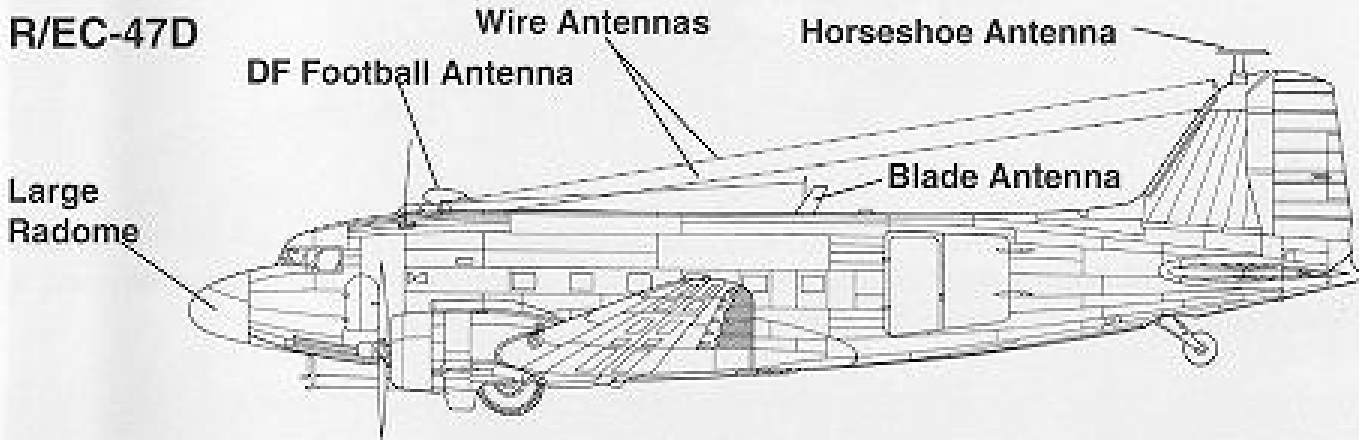
Tabby

Additional Windows

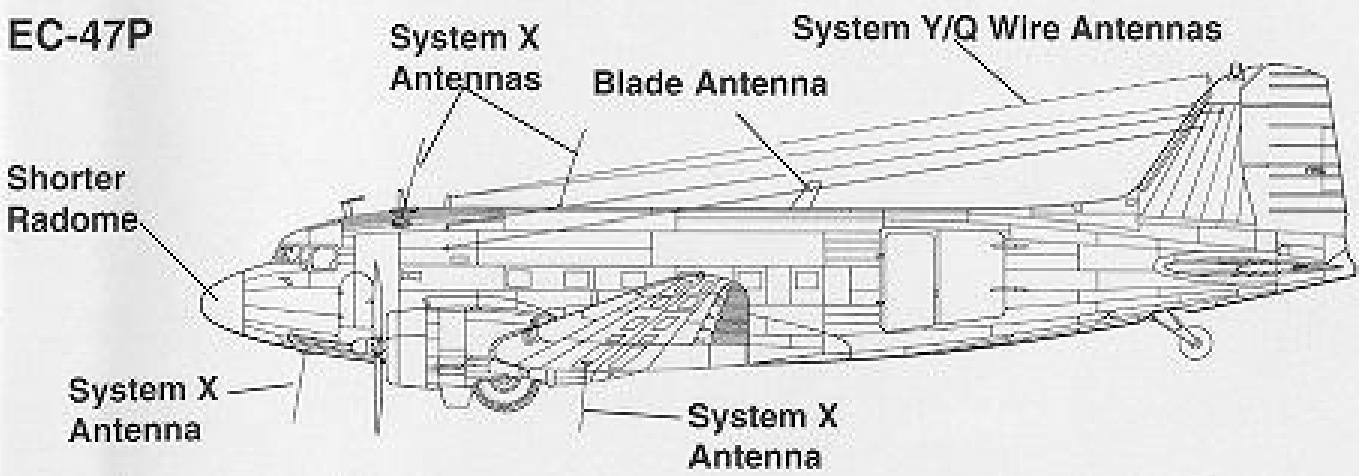


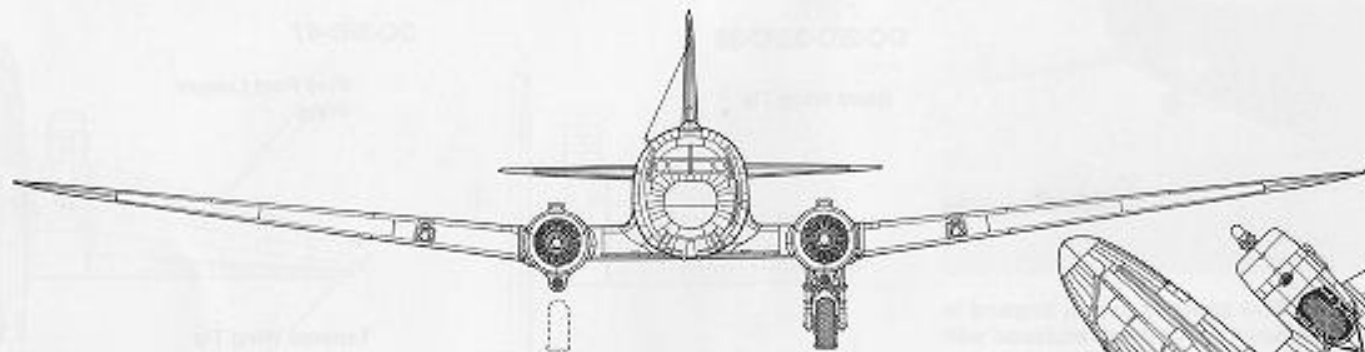
Fuselage Development

R/EC-47D



EC-47P





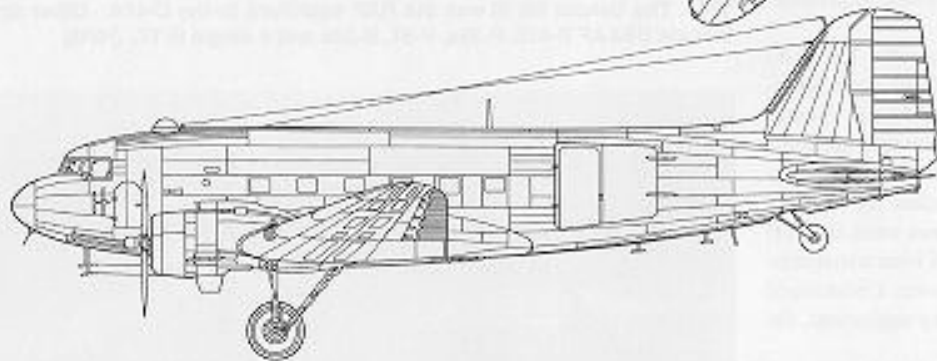
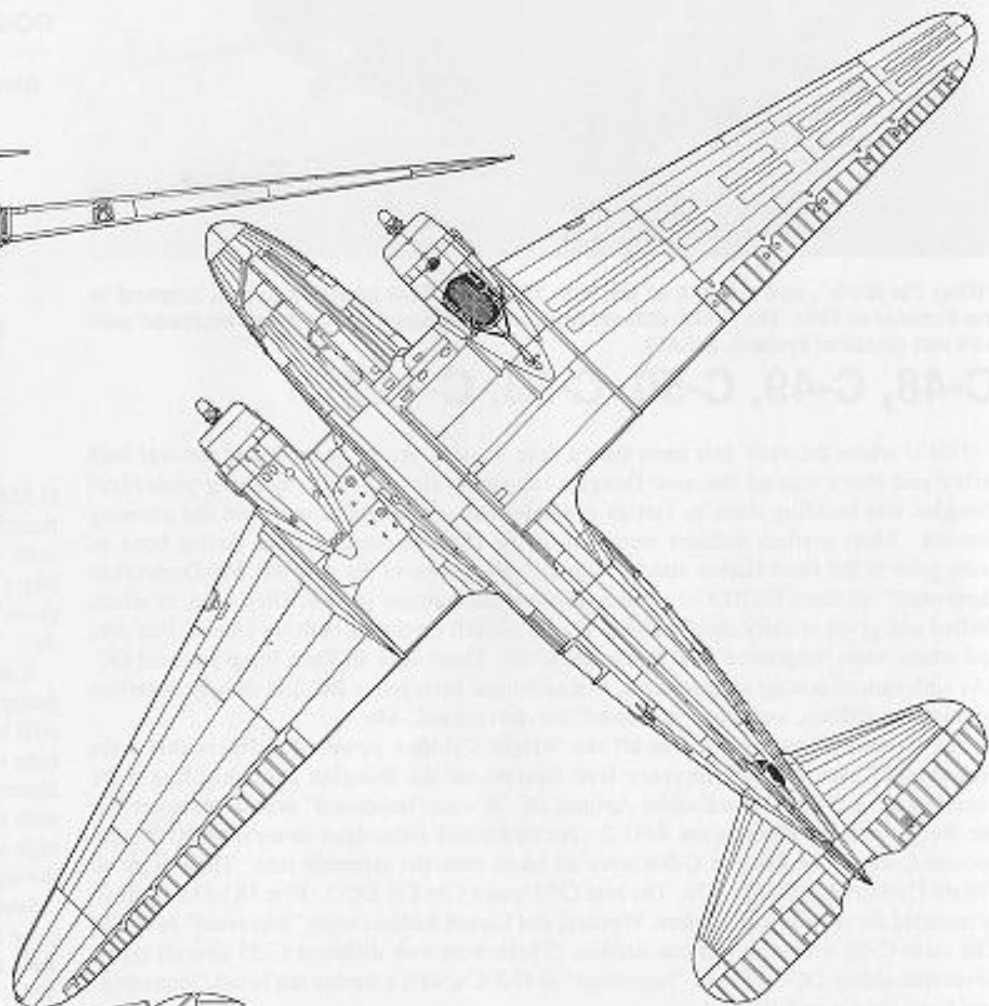
Specification

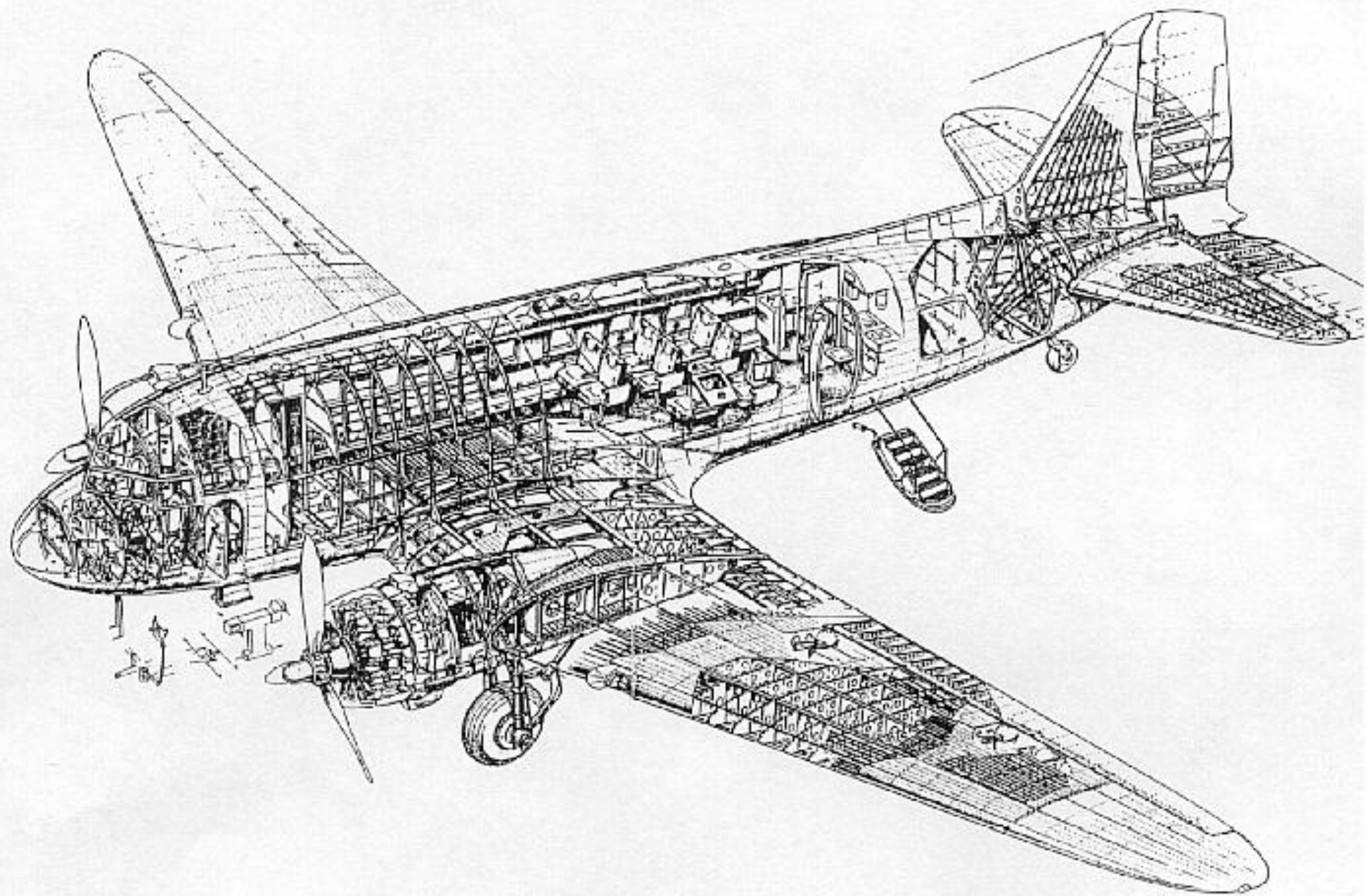
Douglas C-47A

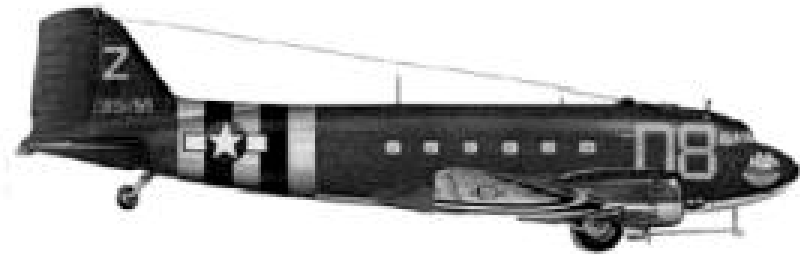
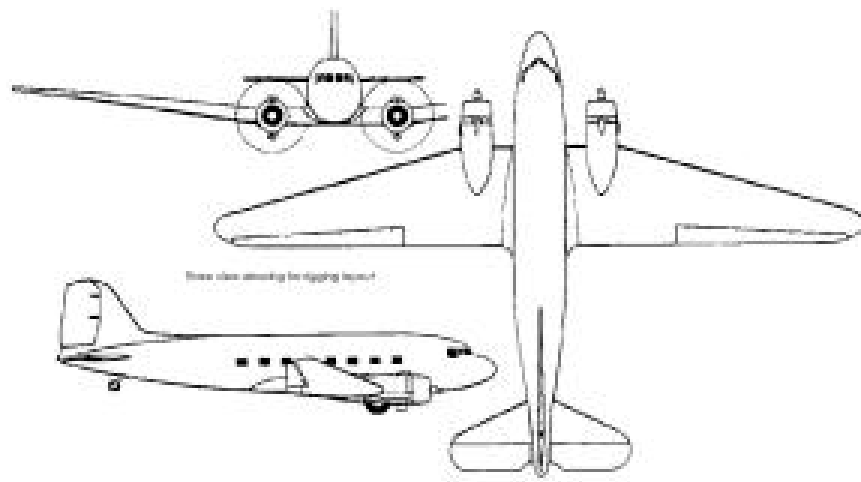
Wingspan.....95 feet 6 inches (21.10 m)
Length.....63 feet 9 inches (19.4 m)
Height.....17 feet (5.18 m)
Empty Weight.....17,865 pounds (8,103.6 kg)
Maximum Weight.....31,000 pounds (14,061.6 kg)

Power plant.....Two 1,050 hp Pratt & Whitney R-1830-92
radial engines

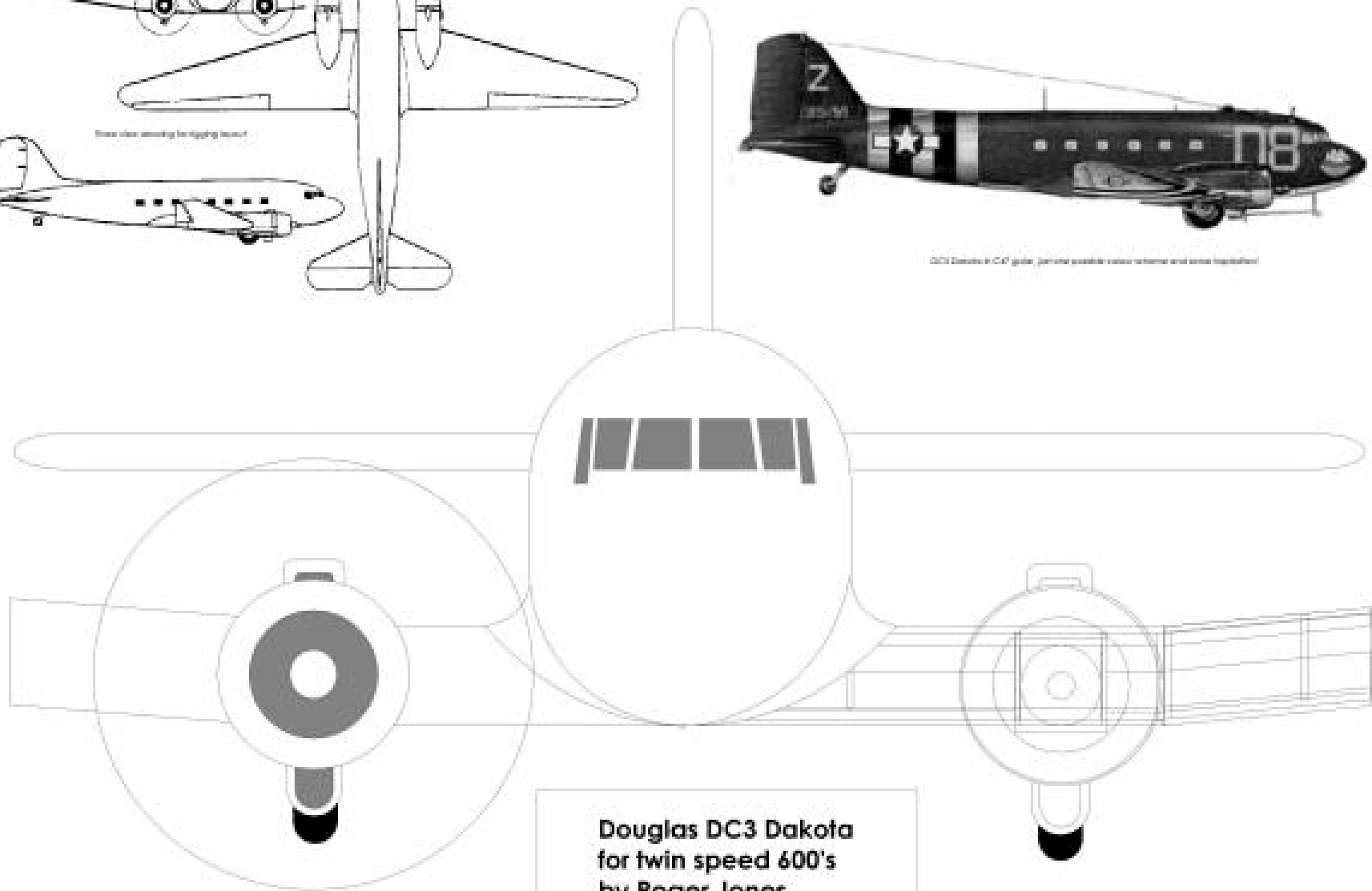
Armament.....None.
Speed.....230 mph (370.1 kph)
Service Ceiling.....26,400 feet (8,046.7 m)
Range.....3,600 miles (5,793.4 km)
Crew.....Four







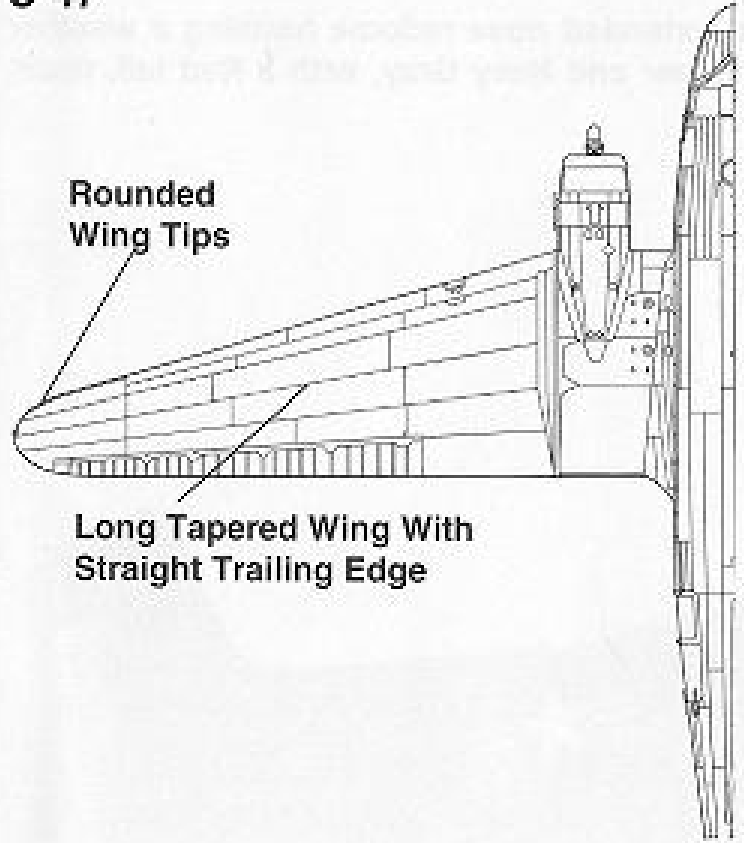
DC3 Dakota in CAP guise, painted possible color scheme and some highlights



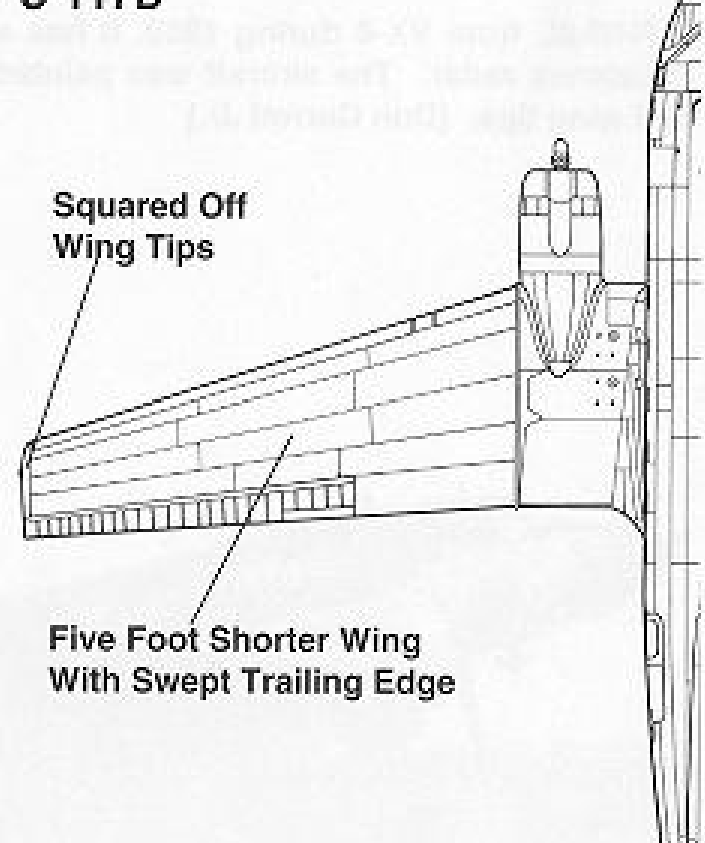
Douglas DC3 Dakota
for twin speed 600's
by Roger Jones.
Drawing DC3/6
January 2000

Wing Development

C-47



C-117D

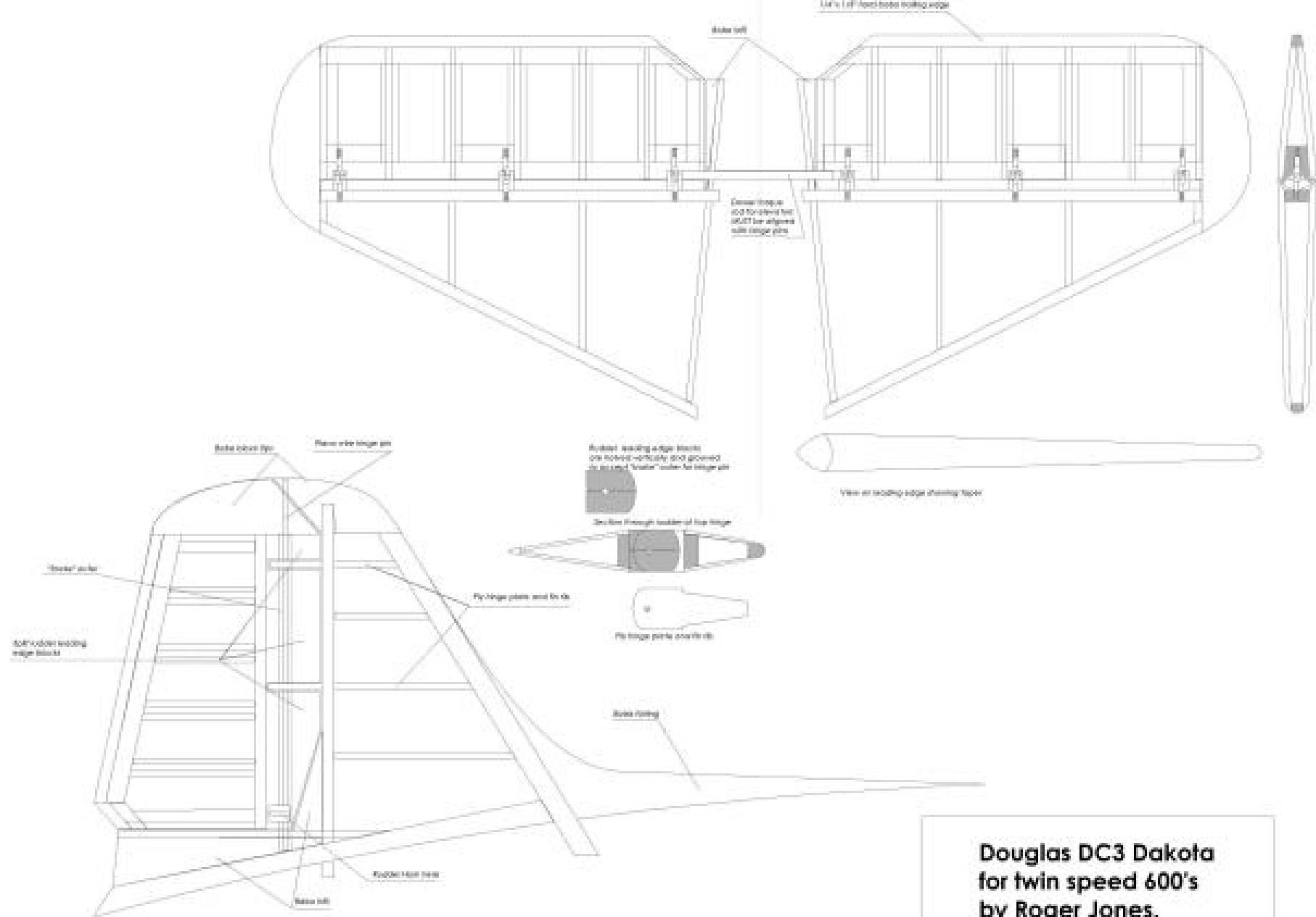


Rounded
Wing Tips

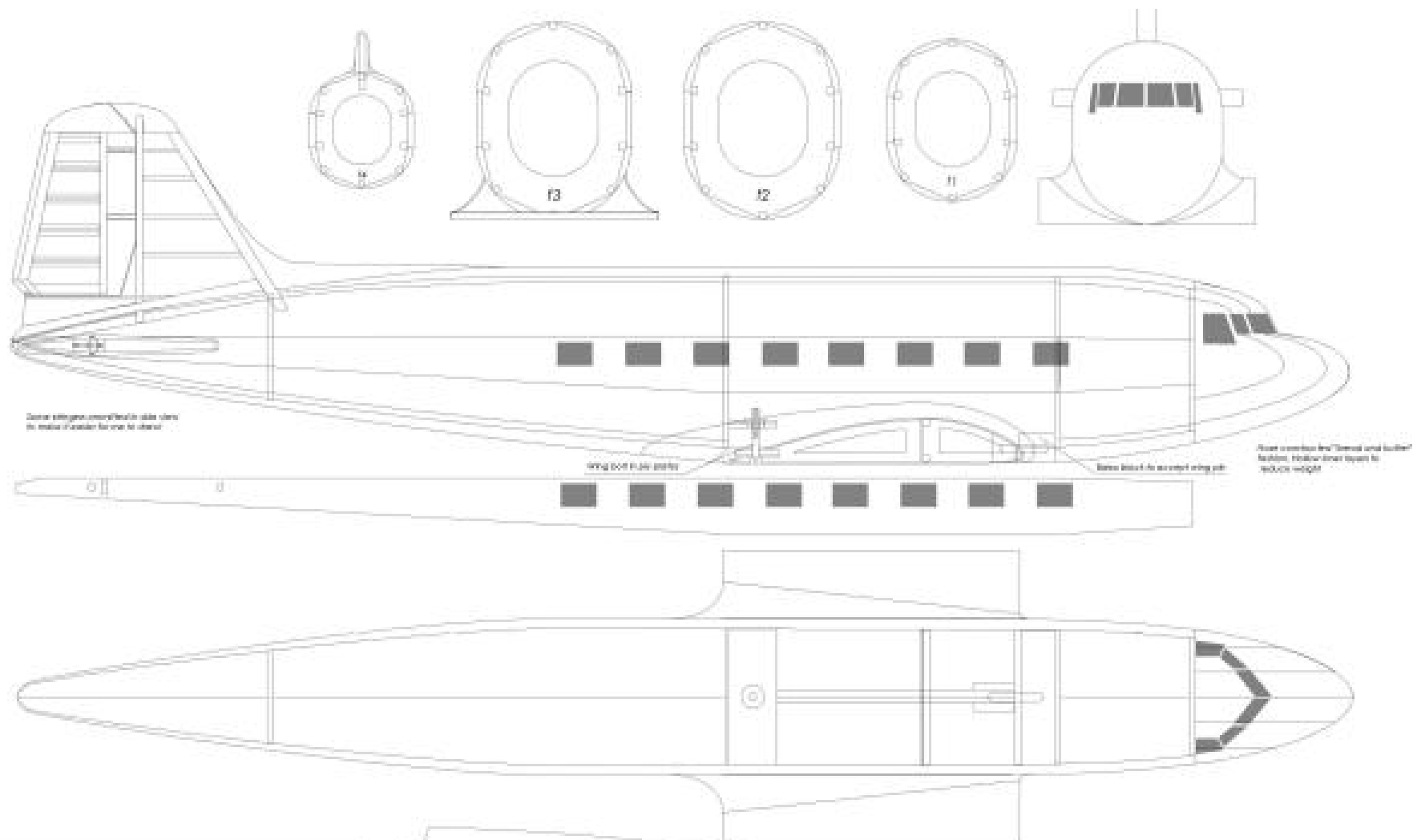
Long Tapered Wing With
Straight Trailing Edge

Squared Off
Wing Tips

Five Foot Shorter Wing
With Swept Trailing Edge



**Douglas DC3 Dakota
 for twin speed 600's
 by Roger Jones.
 Drawing DC3/2
 January 2000**

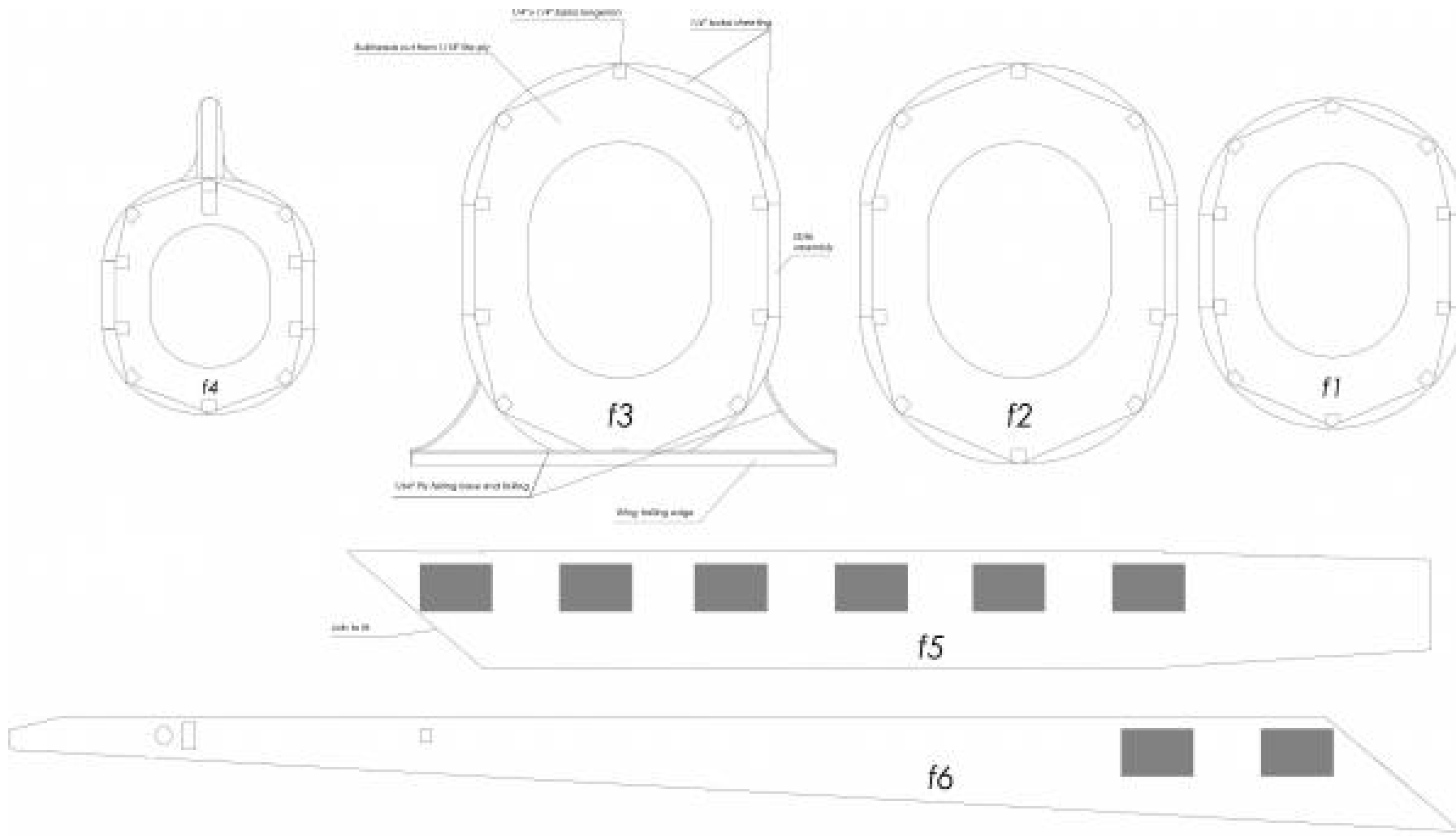


**Douglas DC3 Dakota
for twin speed 600's
by Roger Jones.
Drawing DC3/3
January 2000**



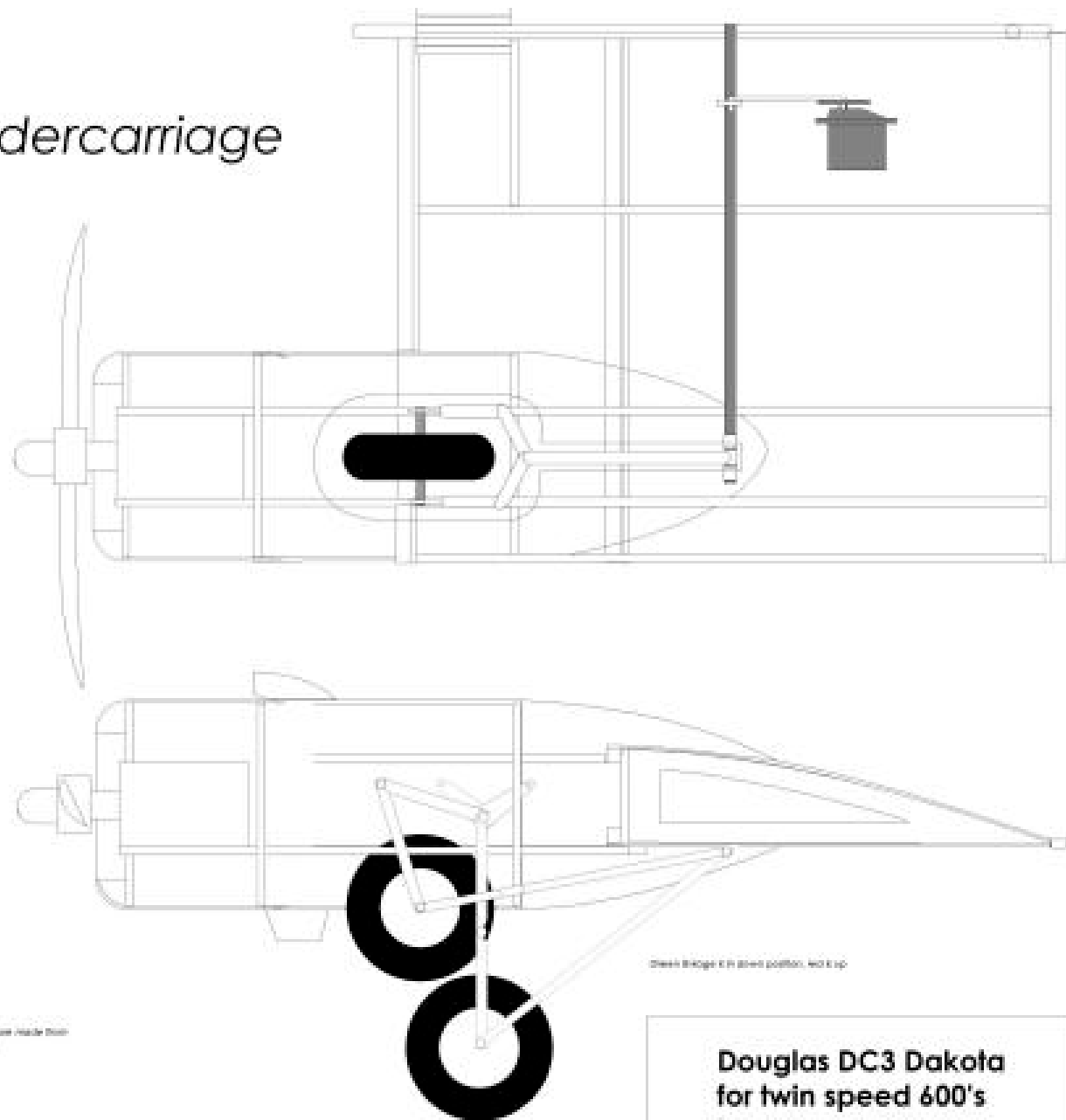
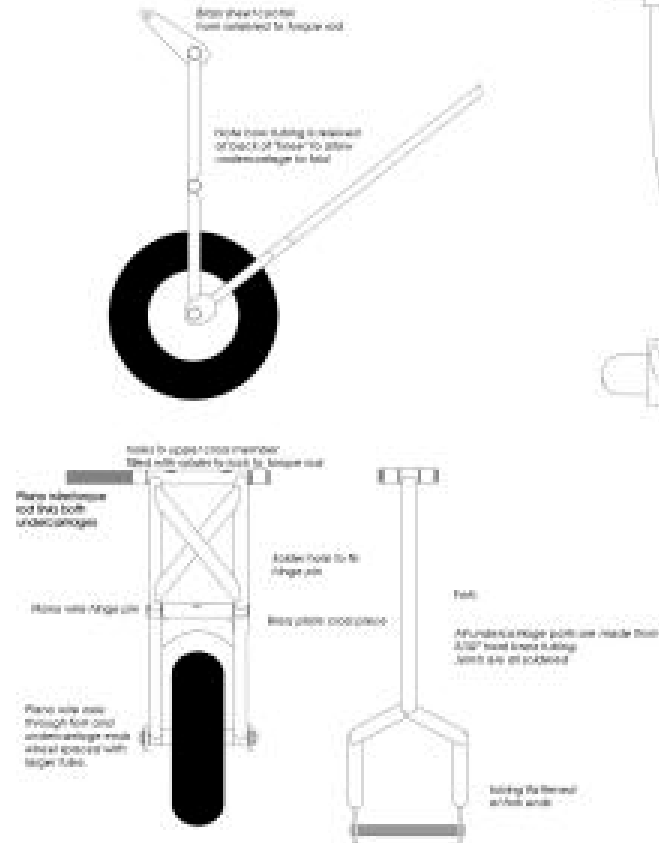
Note: Drawing is 50% scale

- Make bulkheadage completely round at fit and sand to shape.
- Build wing center section and cut out bottom air passage to match.
- Wrap wing center section with wing film and a thick wing with 1/8" ply fitting base sandwiched between wing and fuselage.
- Build up fitting with 1/8" ply up to wing spar and lightweight filler from spar to leading edge.
- Remove wing and glue the ply fitting base in place glued to fuselage.



Douglas DC3 Dakota
for twin speed 600's
by Roger Jones.
Drawing DC3/4
January 2000

Optional retractable undercarriage



**Douglas DC3 Dakota
for twin speed 600's
by Roger Jones.
Drawing DC3/7
January 2000**

