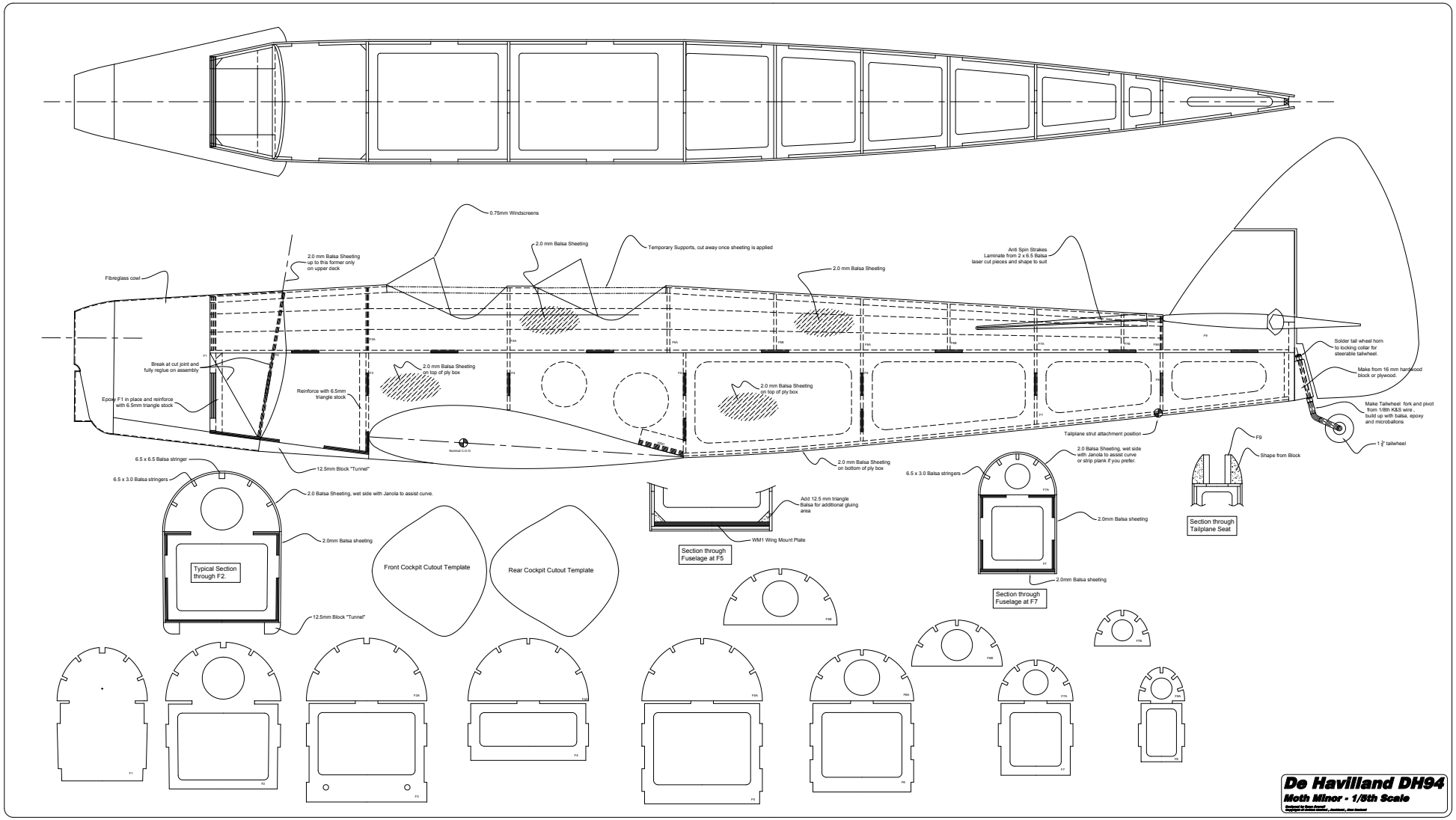

De Havilland DH94

Moth Minor - 1/8th Scale

Designed by Steve Everett
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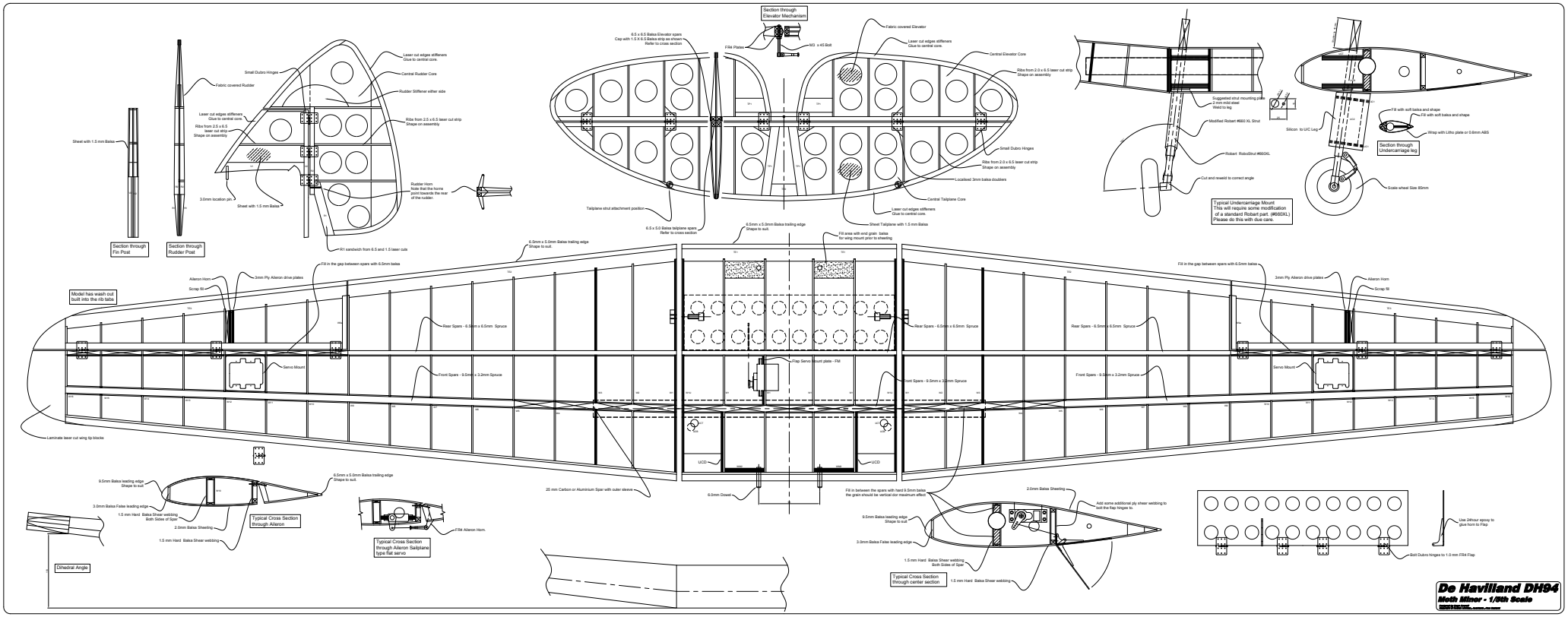
Section through Fin Post
Section through Rudder Post
Sheet with 1.5 mm Balsa
Fabric covered Rudder
Small Dubro Hinges
Laser cut edges stiffeners Glue to central core.
Central Rudder Core
Rudder Stiffener either side
Laser cut edges stiffeners Glue to central core.
Ribs from 2.5 x 6.5 laser cut strip Shape on assembly
Ribs from 2.5 x 6.5 laser cut strip Shape on assembly
3.0mm location pin
Sheet with 1.5 mm Balsa
Rudder Horn Note that the horns point towards the rear of the rudder.
R1 sandwich from 6.5 and 1.5 laser cuts
Section through Elevator Mechanism
6.5 x 6.5 Balsa Elevator spars Cap with 1.5 X 6.5 Balsa strip as shown Refer to cross section
Fillet Plates
M3 x 45 Bolt
Fabric covered Elevator
Laser cut edges stiffeners Glue to central core.
Central Elevator Core
Ribs from 2.0 x 6.5 laser cut strip Shape on assembly
Small Dubro Hinges
Ribs from 2.0 x 6.5 laser cut strip Shape on assembly
Localised 3mm balsa doublers
Central Tailplane Core
Laser cut edges stiffeners Glue to central core.
Sheet Tailplane with 1.5 mm Balsa
Tailplane strut attachment position
6.5 x 5.0 Balsa tailplane spars Refer to cross section
Suggested strut mounting plate 2 mm mild steel Weld to leg
Modified Robart #660 XL Strut
Robart RoboStrut #6604L
Cut and reweld to correct angle
Silicon to U/C Leg
Typical Undercarriage Mount This will require some modification of a standard Robart part. (#6604L) Please do this with due care.
Fill with soft balsa and shape
Fill with soft balsa and shape
Wrap with Litho plate or 0.6mm ABS
Section through Undercarriage leg
Scale wheel Size 85mm
Model has wash out built into the rib table
Aileron Horn
Scrap fill
3mm Ply Aileron drive plates
Fill in the gap between spars with 6.5mm balsa
6.5mm x 5.0mm Balsa trailing edge Shape to suit.
6.5mm x 5.0mm Balsa trailing edge Shape to suit.
Fill area with end grain balsa for wing mount prior to sheeting
Rear Spars - 6.5mm x 6.5mm Spruce
Servo Mount
Front Spars - 9.5mm x 3.2mm Spruce
Flap Servo Mount plate - FM
Laminate laser cut wing tip blocks
UCD
25 mm Carbon or Aluminium Spar with outer sleeve
6.0mm Dowel
Dihedral Angle
9.5mm Balsa leading edge Shape to suit
3.0mm Balsa False leading edge
1.5 mm Hard Balsa Shear webbing Both Sides of Spar
2.0mm Balsa Sheeting
1.5 mm Hard Balsa Shear webbing
6.5mm x 5.0mm Balsa trailing edge Shape to suit
Typical Cross Section through Aileron
Typical Cross Section through Aileron Sailplane type flat servo
Fill Aileron Horn.
Fill in between the spars with hard 9.5mm balsa the grain should be vertical dor maximum effect
2.0mm Balsa Sheeting
Add some additional ply shear webbing to suit the flap hinges to.
Typical Cross Section through center section
Use 24hour epoxy to glue horn to Flap
Bolt Dubro hinges to 1.0 mm FR4 Flap
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Moth Minor - 1/4th Scale