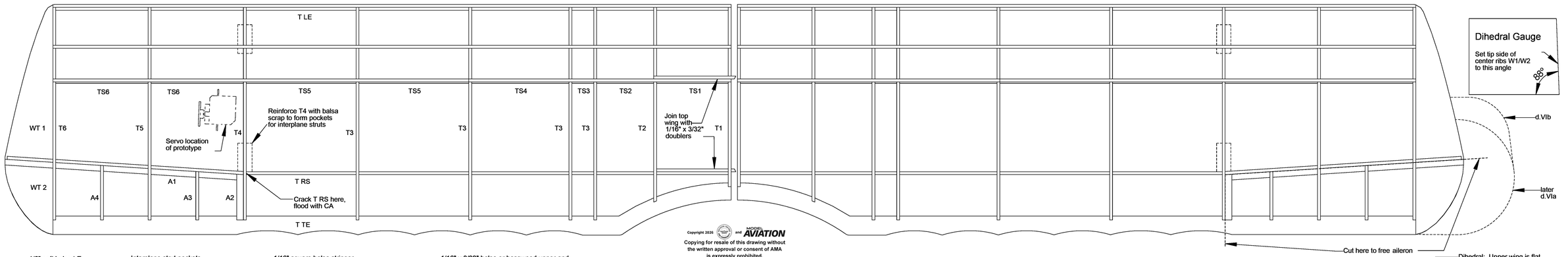

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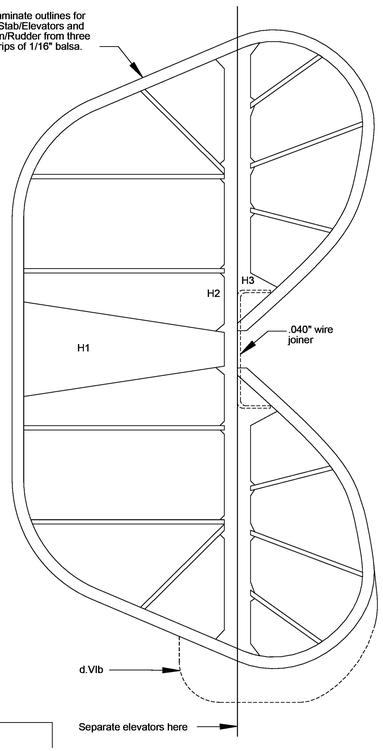
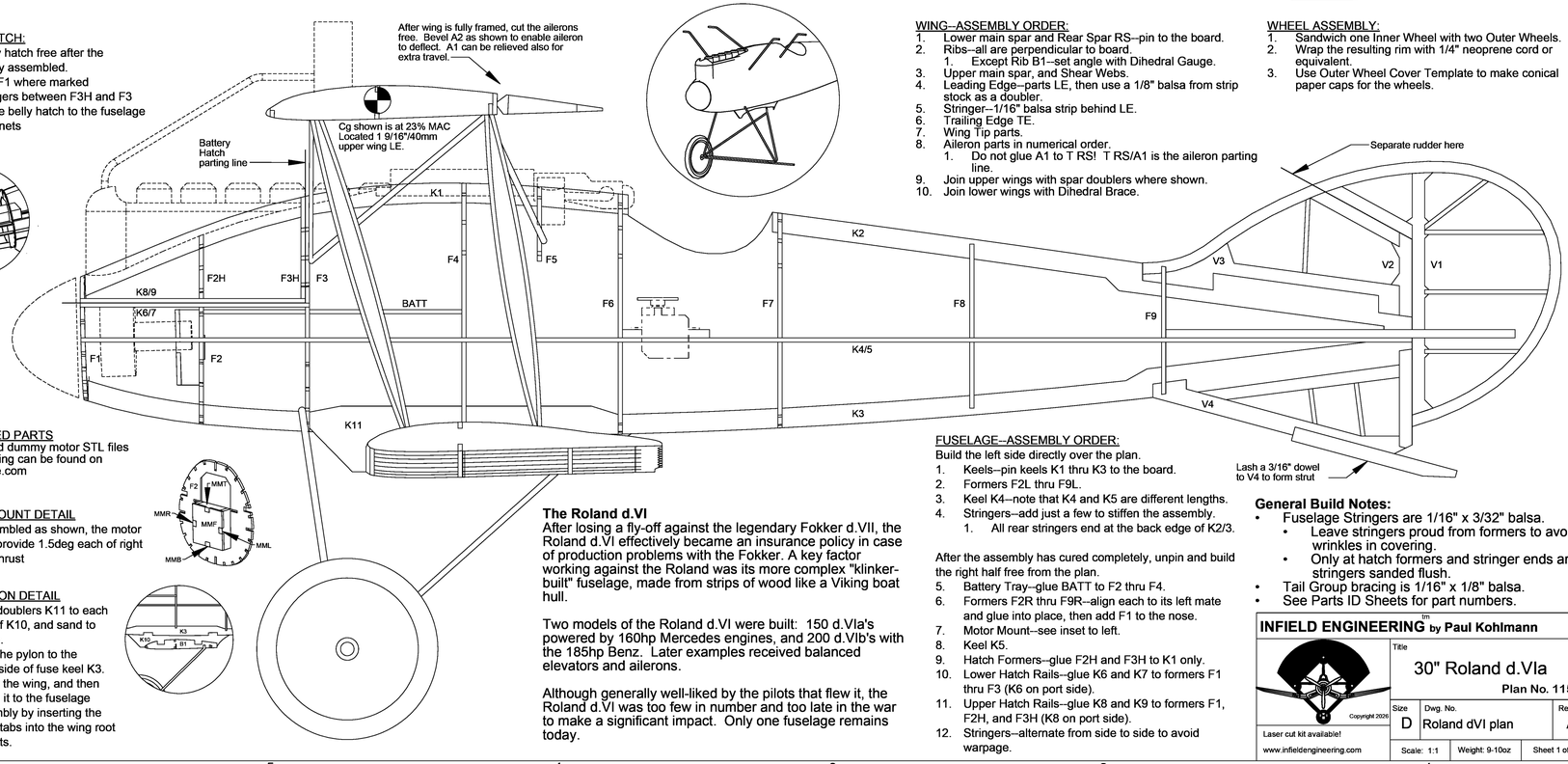
PROTOTYPE SPECIFICATIONS	
Wingspan	30"
Length	21.8"
Weight	9.5 oz
Wing Area	257.4 sq in
Power	1700kV Blue Wonder
Propellor	7 x 6 APC
Battery	2S 1000mAh 3S 500mAh

CONTROL THROWS	
Ailerons	3/8"
Elevator	1/4"
Rudder	3/8"

TAIL GROUP ASSEMBLY
1. Tail group outlines:
   1. Trace and transfer the outline shapes from plan and make forms.
   2. Laminate three strips of 1/16" x 1/8" balsa around forms.
2. Pin the cured outlines into place over the plan.
3. Install the tail framework parts in numerical order.
4. Add 1/16" x 1/8" bracing where shown.
5. Unpin, separate the Rudder and the Elevators by cutting through the outlines where shown.
6. Sand tail group parts to shape.



BATTERY HATCH:
Cut the battery hatch free after the fuselage is fully assembled.
1. Cut thru F1 where marked
2. Cut stringers between F3H and F3
3. Attach the belly hatch to the fuselage with magnets



3D PRINTED PARTS
Spinner and dummy motor STL files for 3D printing can be found on Thingiverse.com

MOTOR MOUNT DETAIL
When assembled as shown, the motor mount will provide 1.5deg each of right and down thrust

WING PYLON DETAIL
1. Glue doublers K11 to each side of K10, and sand to shape.
2. Glue the pylon to the underside of fuse keel K3.
3. Cover the wing, and then attach it to the fuselage assembly by inserting the pylon tabs into the wing root pockets.

The Roland d.VI
After losing a fly-off against the legendary Fokker d.VII, the Roland d.VI effectively became an insurance policy in case of production problems with the Fokker. A key factor working against the Roland was its more complex "klinker-built" fuselage, made from strips of wood like a Viking boat hull.

Two models of the Roland d.VI were built: 150 d.VIa's powered by 160hp Mercedes engines, and 200 d.VIb's with the 185hp Benz. Later examples received balanced elevators and ailerons.

Although generally well-liked by the pilots that flew it, the Roland d.VI was too few in number and too late in the war to make a significant impact. Only one fuselage remains today.

WING--ASSEMBLY ORDER:
1. Lower main spar and Rear Spar RS--pin to the board.
2. Ribs--all are perpendicular to board.
   1. Except Rib B1--set angle with Dihedral Gauge.
3. Upper main spar, and Shear Webs.
4. Leading Edge--parts LE, then use a 1/8" balsa from strip stock as a doubler.
5. Stringer--1/16" balsa strip behind LE.
6. Trailing Edge TE.
7. Wing Tip parts.
8. Aileron parts in numerical order.
   1. Do not glue A1 to T RS! T RS/A1 is the aileron parting line.
9. Join upper wings with spar doublers where shown.
10. Join lower wings with Dihedral Brace.

FUSELAGE--ASSEMBLY ORDER:
Build the left side directly over the plan.
1. Keels--pin keels K1 thru K3 to the board.
2. Formers F2L thru F9L.
3. Keel K4--note that K4 and K5 are different lengths.
4. Stringers--add just a few to stiffen the assembly.
   1. All rear stringers end at the back edge of K2/3.

After the assembly has cured completely, unpin and build the right half free from the plan.
5. Battery Tray--glue BATT to F2 thru F4.
6. Formers F2R thru F9R--align each to its left mate and glue into place, then add F1 to the nose.
7. Motor Mount--see inset to left.
8. Keel K5.
9. Hatch Formers--glue F2H and F3H to K1 only.
10. Lower Hatch Rails--glue K6 and K7 to formers F1 thru F3 (K6 on port side).
11. Upper Hatch Rails--glue K8 and K9 to formers F1, F2H, and F3H (K8 on port side).
12. Stringers--alternate from side to side to avoid warpage.

WHEEL ASSEMBLY:
1. Sandwich one Inner Wheel with two Outer Wheels.
2. Wrap the resulting rim with 1/4" neoprene cord or equivalent.
3. Use Outer Wheel Cover Template to make conical paper caps for the wheels.

General Build Notes:
- Fuselage Stringers are 1/16" x 3/32" balsa.
  - Leave stringers proud from formers to avoid wrinkles in covering.
  - Only at hatch formers and stringer ends are stringers sanded flush.
- Tail Group bracing is 1/16" x 1/8" balsa.
- See Parts ID Sheets for part numbers.

INFIELD ENGINEERING™ by Paul Kohlmann

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Title: 30" Roland d.VIa
Plan No. 1154

Size	Dwg. No.	Rev
D	Roland dVI plan	A

Scale: 1:1 | Weight: 9-10oz | Sheet 1 of 2