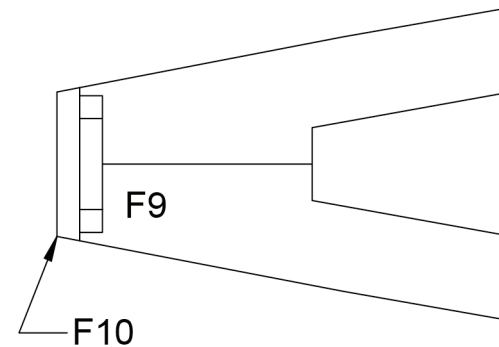


## FUSELAGE, UPPER--ASSEMBLY

Build the top half of the fuselage.

1. Keels K1--pin to plan.
2. All "T" Former parts F
3. Upper Keels K2 and K



4. Horizontal Stabilizer
5. Stringers--all fuselage  
1. add enough to reach  
unpinned from the

## FUSELAGE, LOWER--ASSEMBLY

Build the lower half of the fuselage.  
drawing shown for reference.

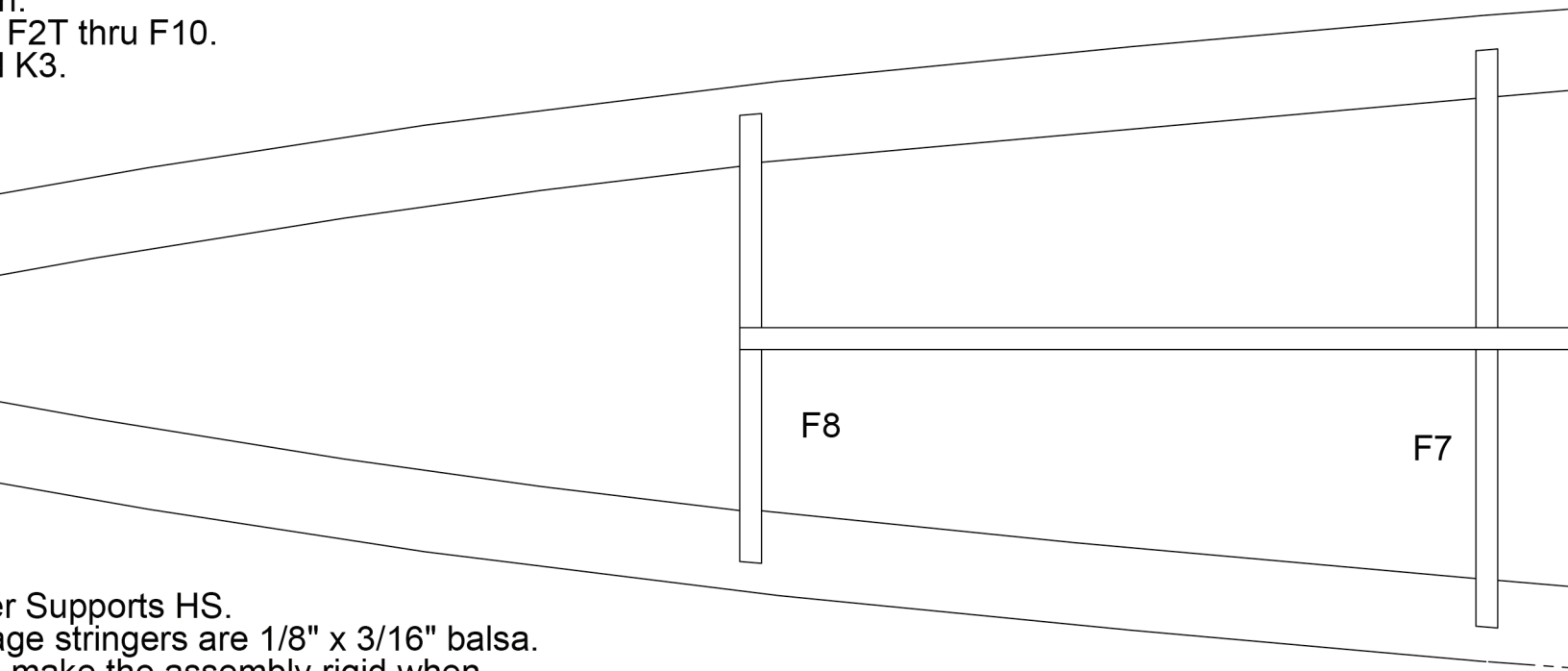
1. Align and laminate F
2. Attach Firewall to front
3. Wing pin WP--reinforce
4. Wing Bolt Boss--assemble  
attach to Former F6E  
1. Use 1/4-20 hard  
Wing Bolt Boss
5. All "B" Former parts  
1. Glue all parallel  
2. Except for F6B,  
6. Keels K4 and K5.  
7. Servo tray SERVO.  
8. Wing Saddles WS--w  
and they will curve in  
9. Stringers--finish 'em

## MOTOR MOUNT:

ASSEMBLY ORDER:

use over the plan.

n.  
F2T thru F10.  
K3.



Supports HS.  
Large stringers are 1/8" x 3/16" balsa.  
make the assembly rigid when  
the board

ASSEMBLY ORDER:

the fuse free from the plan--side view  
ence.

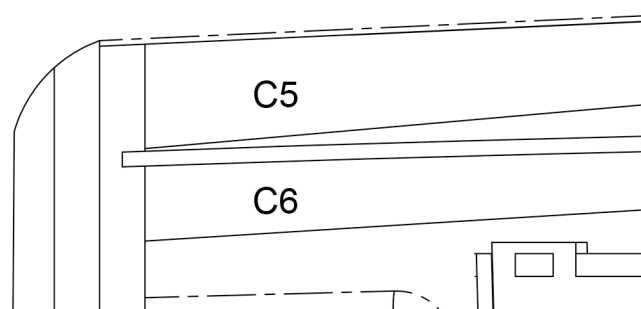
Firewall parts F0 and F1.  
Front Keels.  
Drill pin hole in F3B.  
Assemble parts WB1 and WB2 and  
WB (see detail).  
Hardware to fasten the wing to the  
S  
Parts F2B thru F9B.  
Align to their "T" counterparts.  
Use keel K5 to set angle

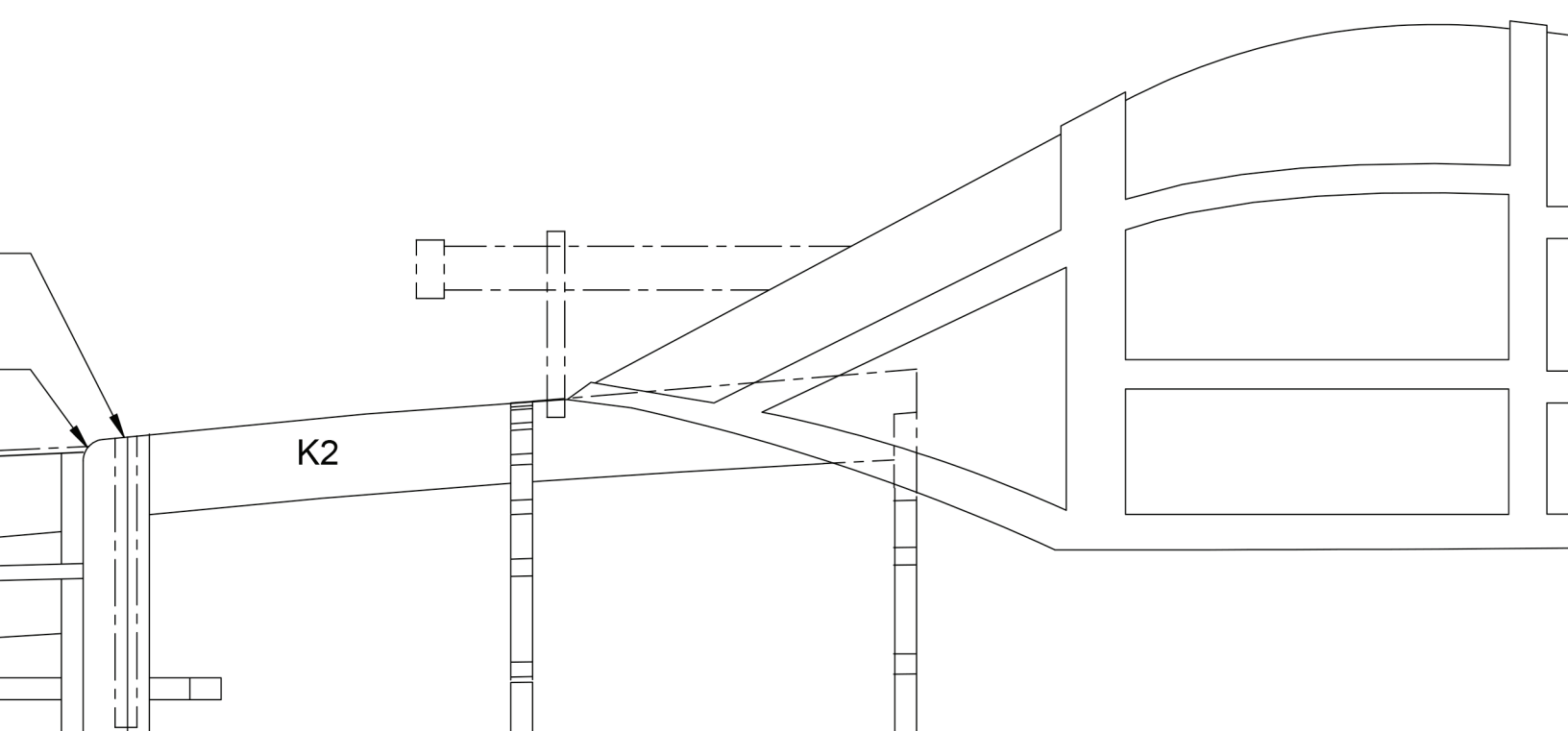
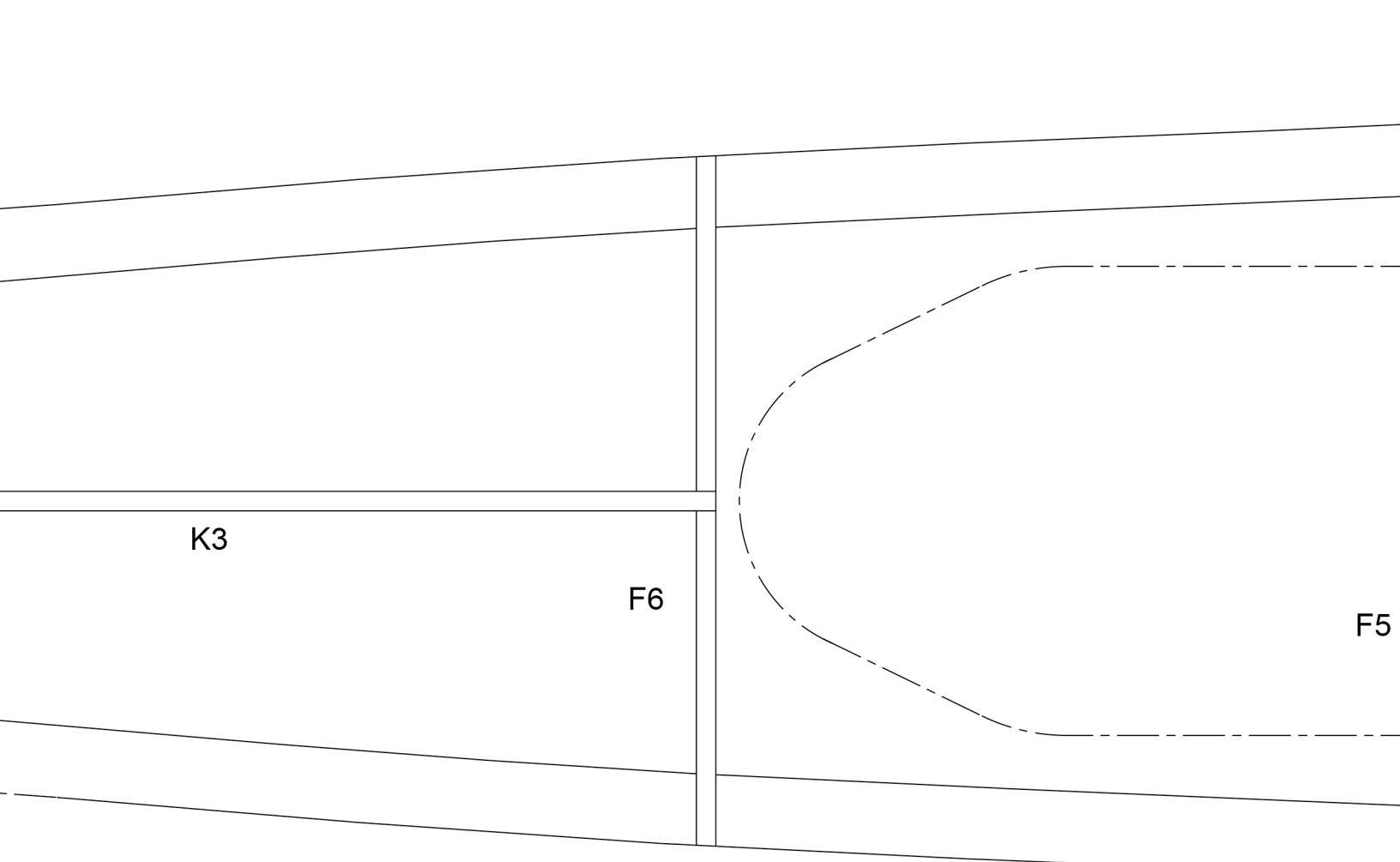
Motor Mount  
Retaining Pin

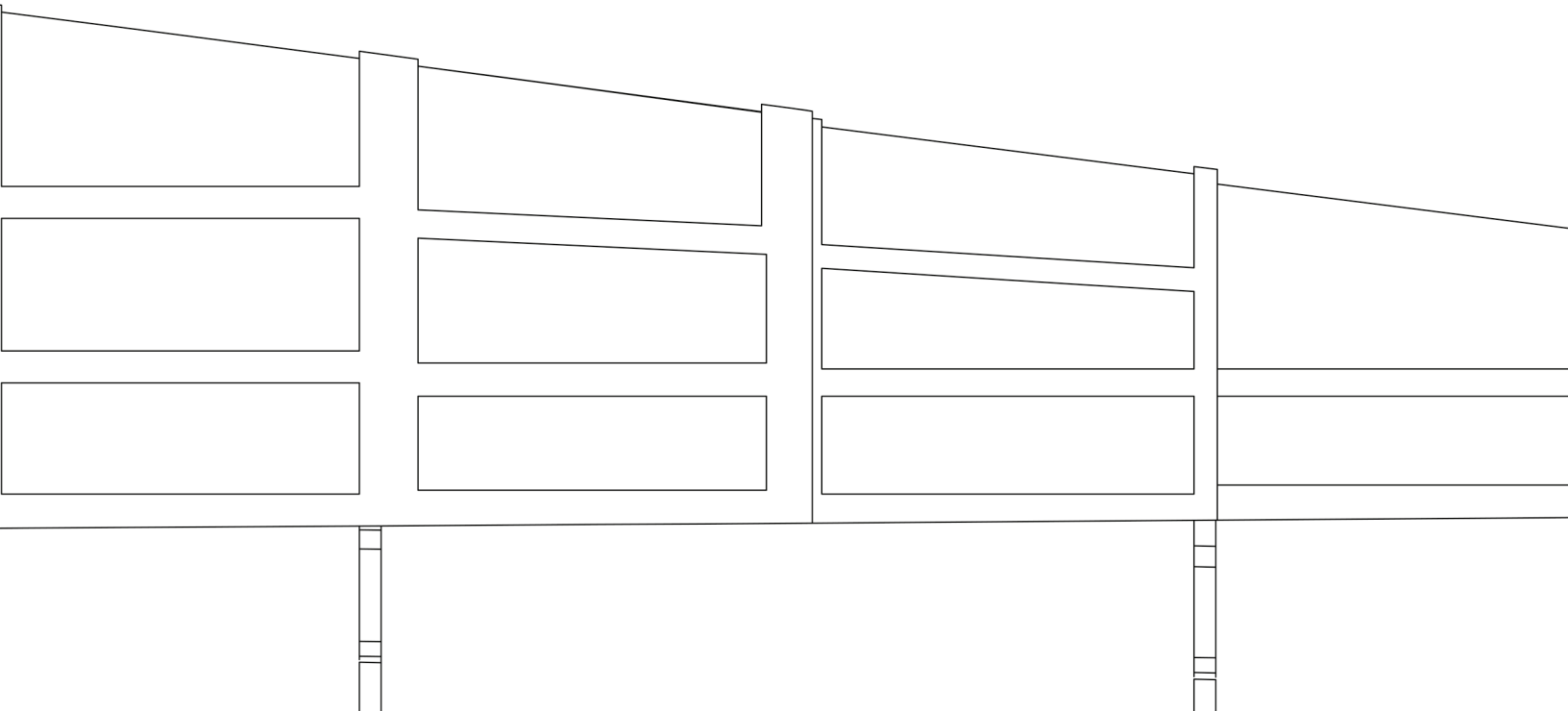
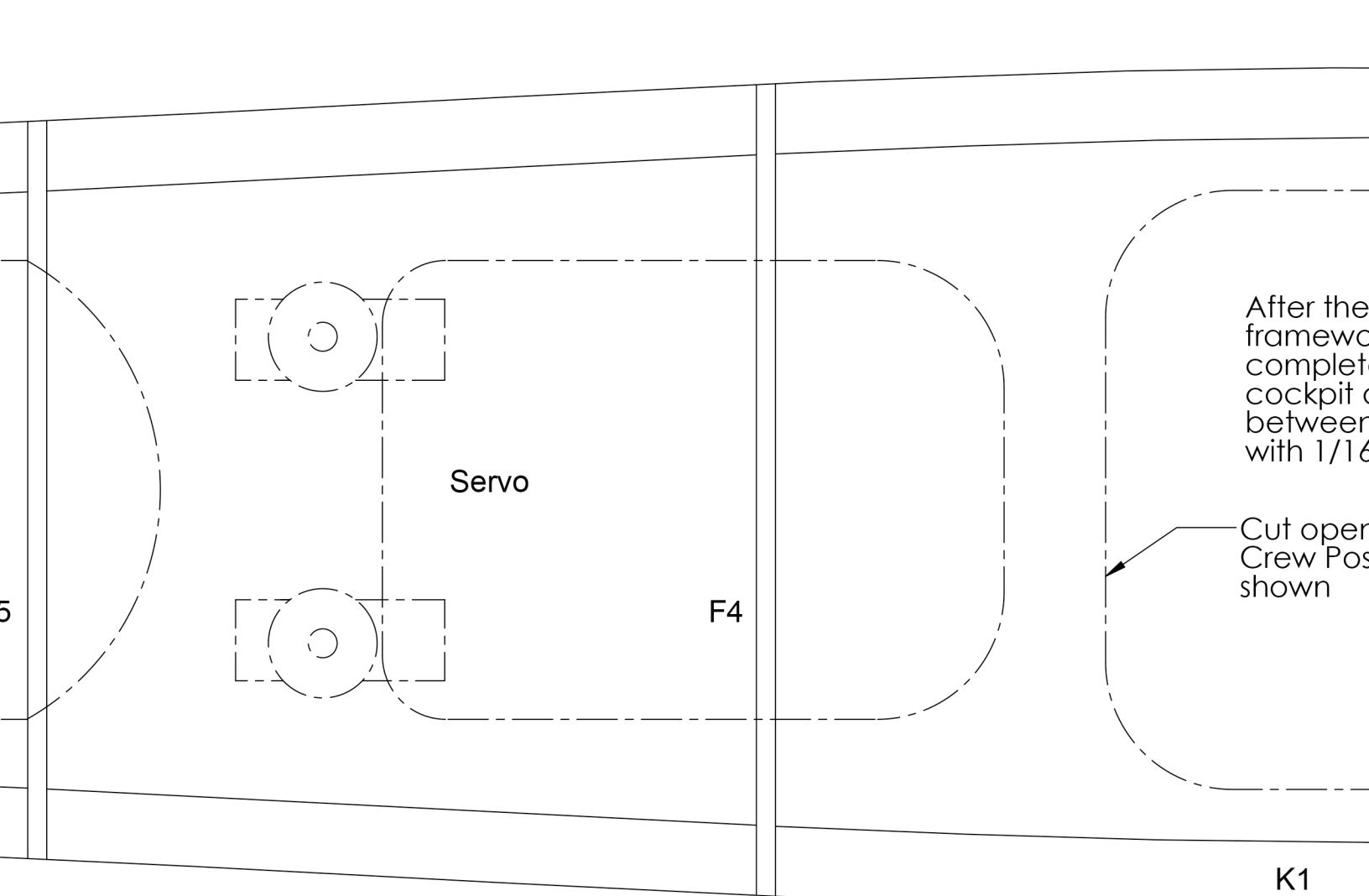
Wet outer surface of these parts  
into place.  
Wipe off!

C1-C3

F0

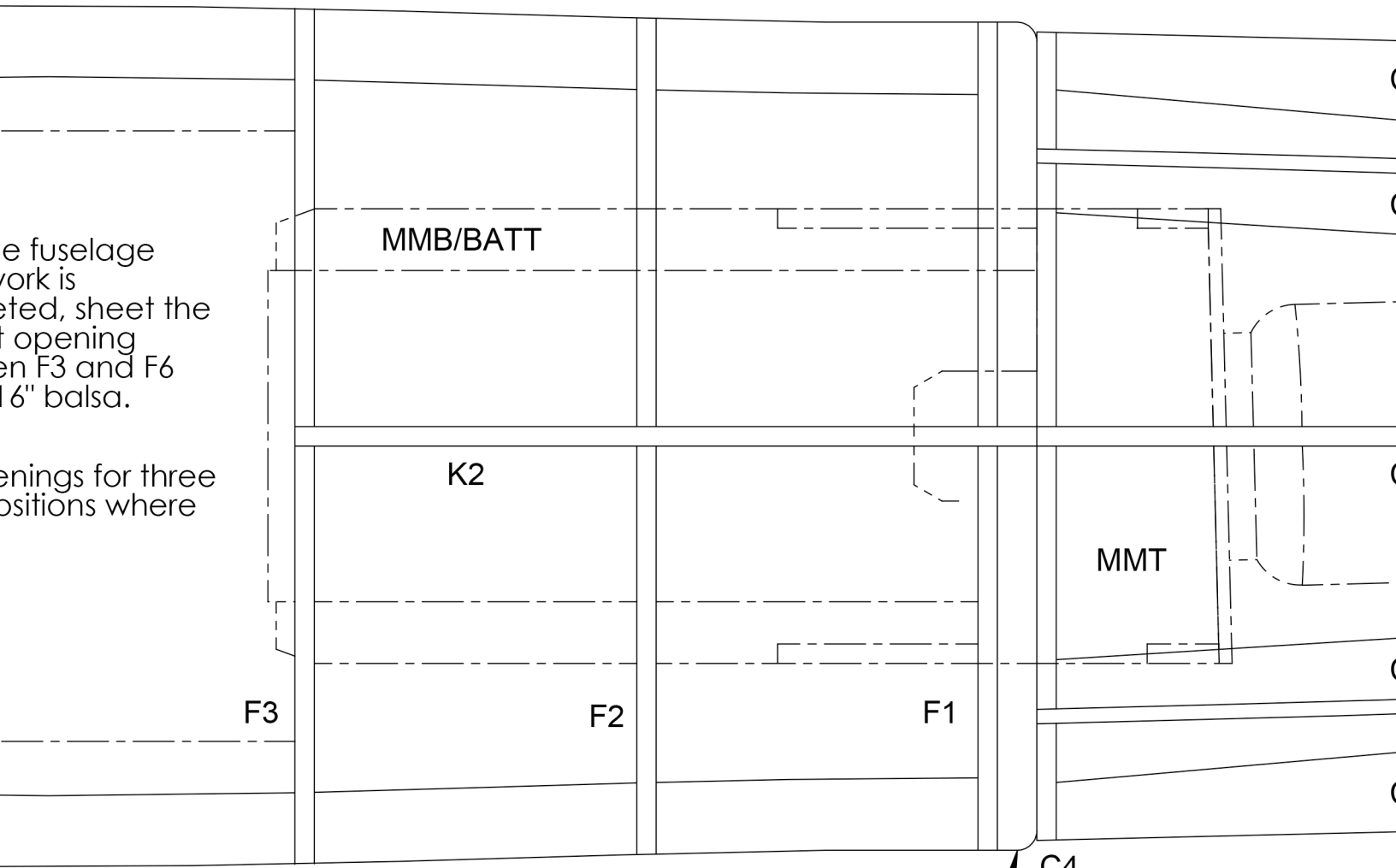




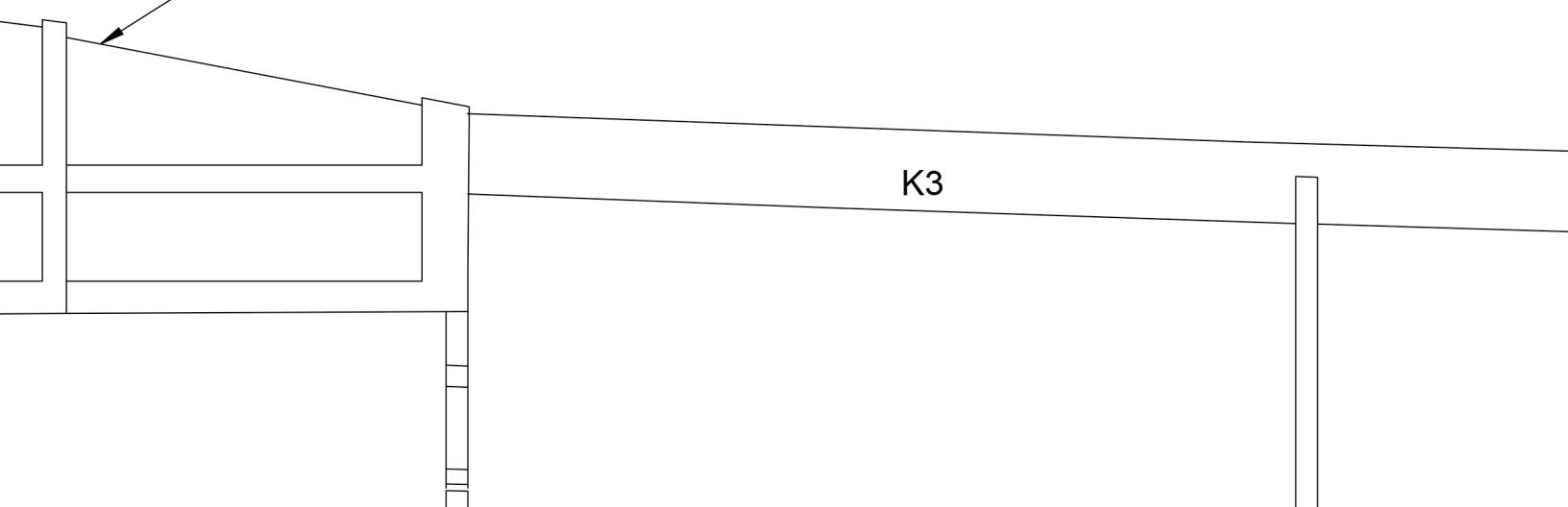


The fuselage work is completed, sheet the top opening between F3 and F6 with 1/6" balsa.

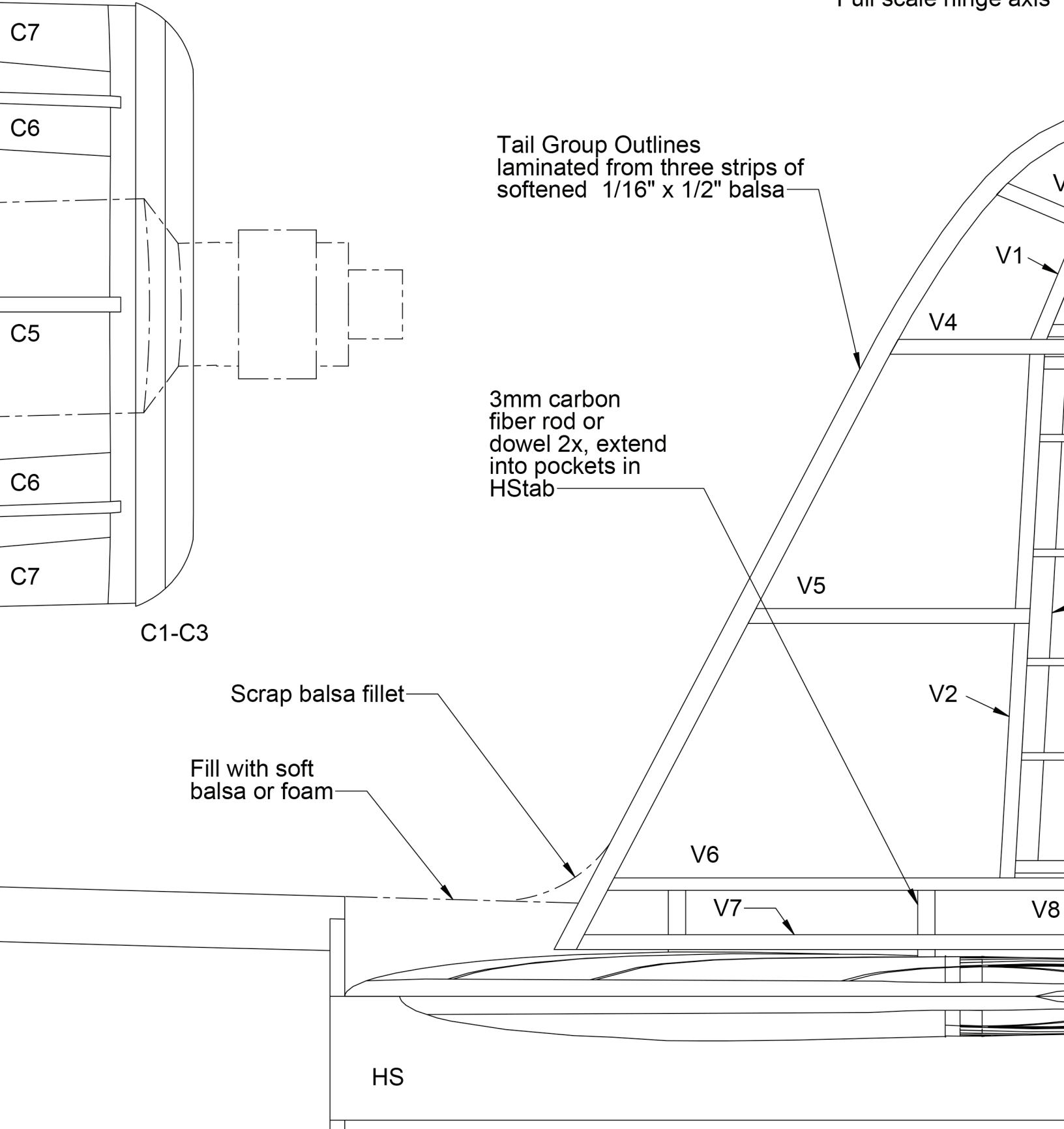
Openings for three positions where



Vacuum formed Canopy available from Park Flyer Plastics



Full scale hinge axis



Tail Group Outlines laminated from three strips of softened 1/16" x 1/2" balsa

3mm carbon fiber rod or dowel 2x, extend into pockets in HStab

Scrap balsa fillet

Fill with soft balsa or foam

C1-C3

C7

C6

C5

C6

C7

V1

V4

V5

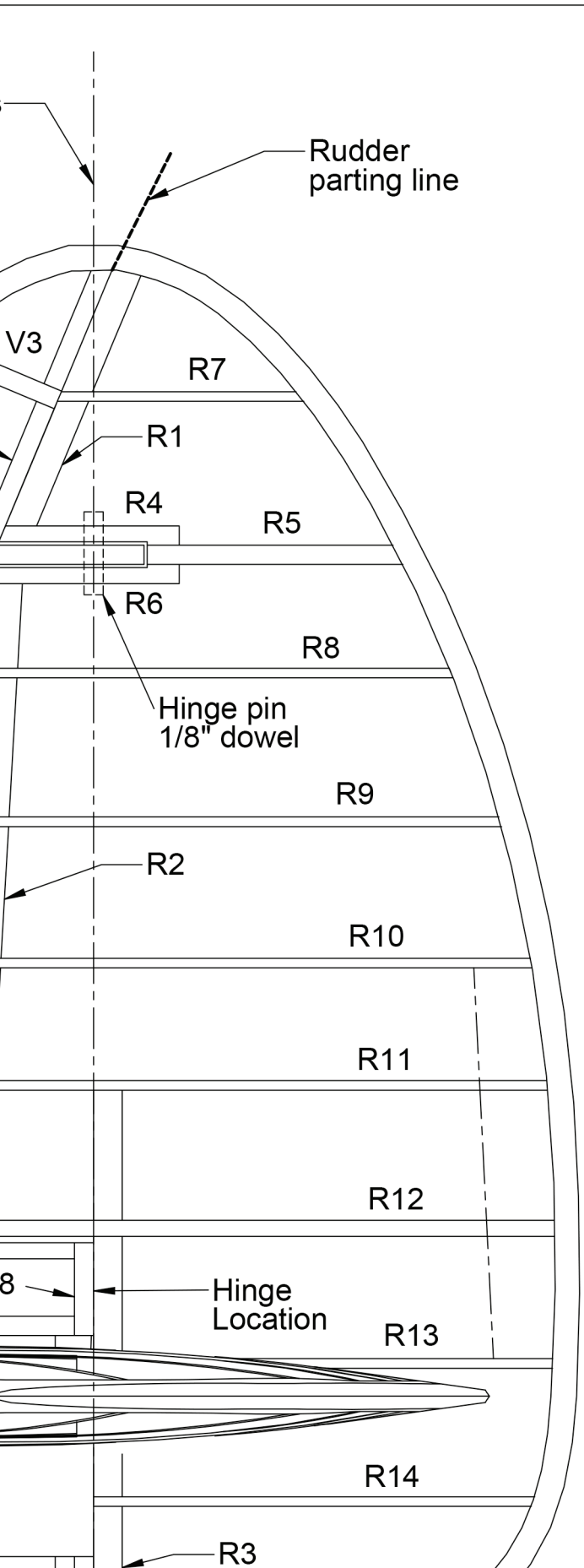
V2

V6

V7

V8

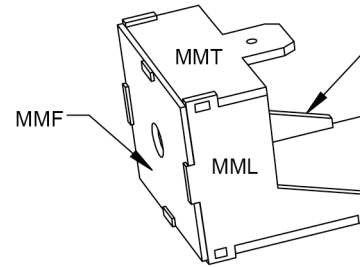
HS



The nose on the Devasta at first glance. In order to as possible, this design u Mount/Battery Tray.

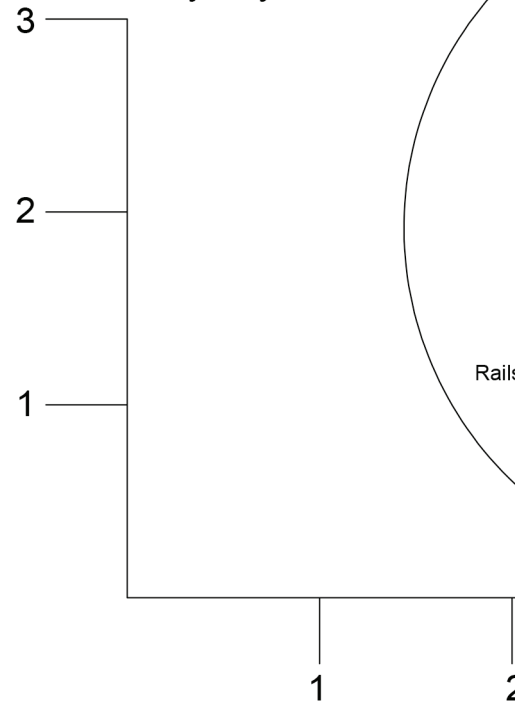
When assembled as show will provide 2 degrees of r

Once completed, the ass Firewall and formers F2 a through Firewall F0 and M keep the Motor Mount in p



Add three 1/8" hard balsa at the bottom corners of the firewall opening where sho

Bevel the upper rail between Firewall and F2 to accept battery tray BATT

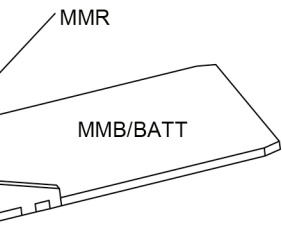




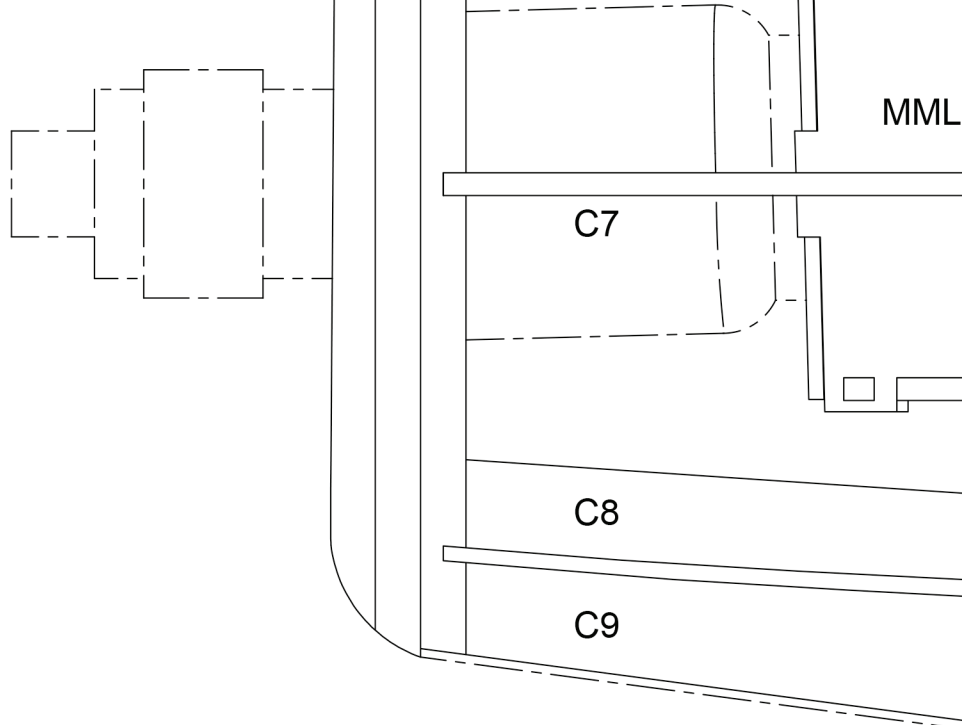
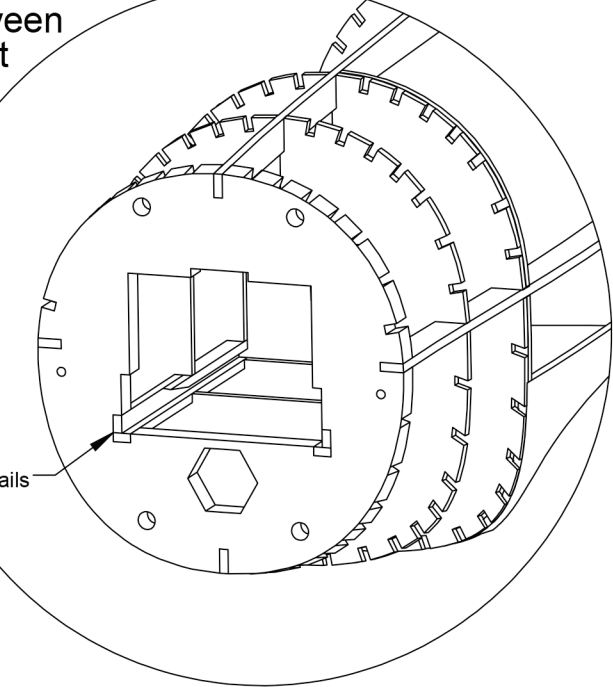
Motor is shorter than it appears  
to get as much weight forward  
uses an integrated Motor

As shown below, the Motor Mount  
provides right and down thrust.

The assembly will slide through the  
rails and F3. Drill a hole down  
the MMT for a retaining pin to  
hold in place when installed.

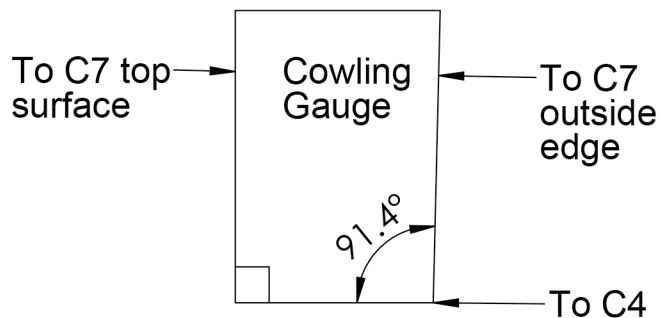


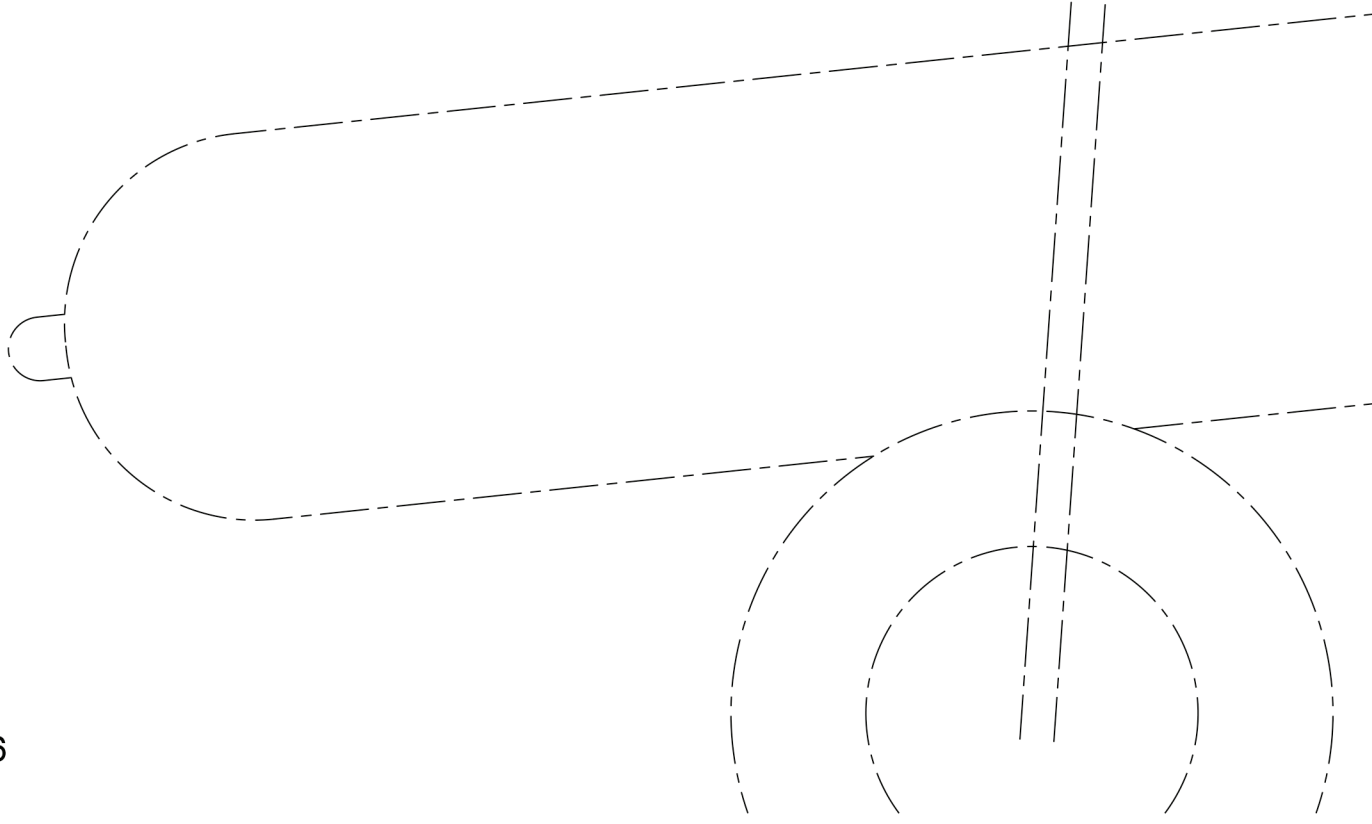
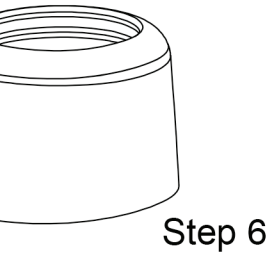
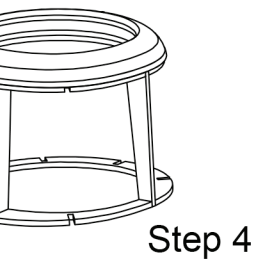
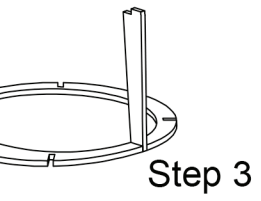
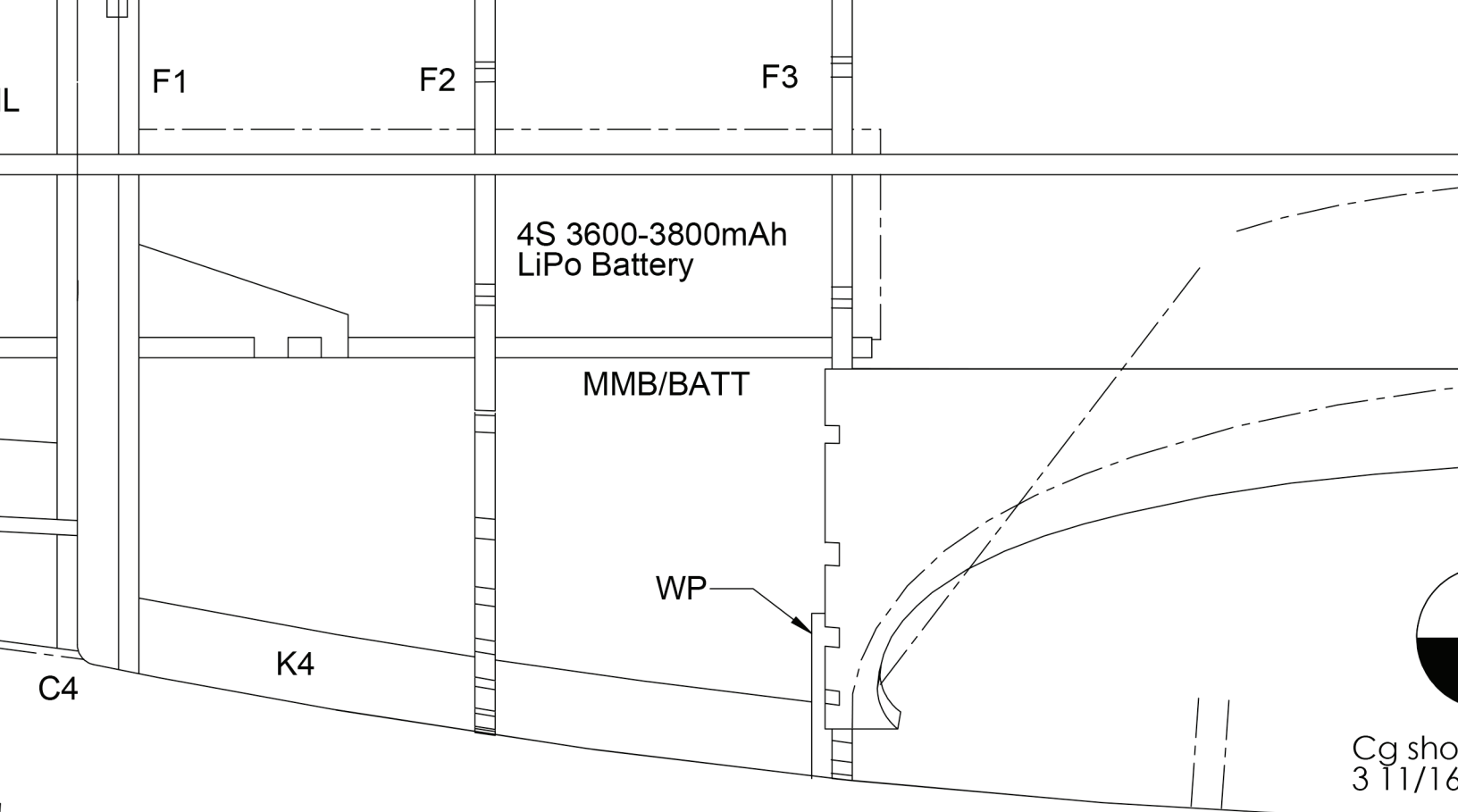
As shown below, the rails  
are shown.



### COWL--ASSEMBLY ORDER:

1. Preassemble Cowl Opening rings C1 thru C3.
2. Stack and glue the rings together--align them with the alignment hole.
  1. The hole will be the port for the cowl machine gun later.
3. Glue two rails C7 so that the sides of C7 are perpendicular to ply former C4.
  1. Use angle gauge below to tip the edge of C7 toward the cowl opening.
4. Mount Cowl Opening to top of rails C7; add C9 to true the Cowl Opening to the ply former.
5. Glue the rest of the cowl rails into place.
6. Sheet the assembly from C3 to C4 with 1/16" balsa.
7. Attach Cowl to Firewall F0 with rare earth magnets.





F4

F5

Servo



own is at 25% MAC  
6" / 94mm from back of F3

1 inch refe

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and

**ModelAviation**  
Bringing Modelers Together

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F6

F7

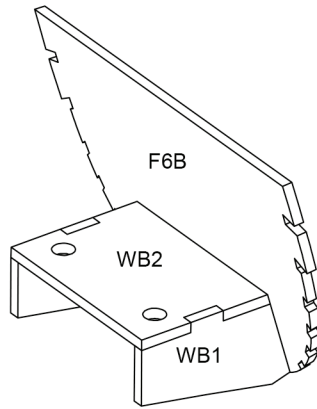
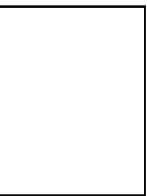
K1

Wing Fillet Outline

Saddle WS

K5

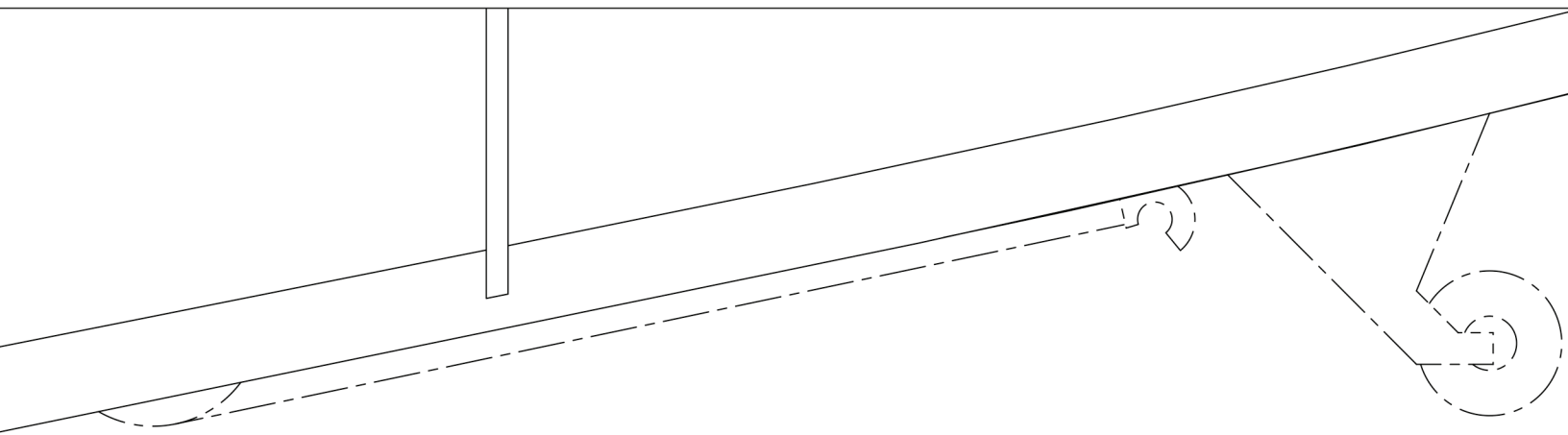
reference square



Wing Bolt Boss Detail

**PROTOTYPE SPECIFICATIONS**

Wingspan	60"
Length	41 7/8"
Weight	75oz
Wing Area	635 sq in
Power	FMS 4258 6
Propellor	13x8 3-blade
Battery	4S 3600mAh



### TAIL GROUP ASSEMBLY--Fin and Rudder

Sheeting the fin and horizontal stabilizer and covering the rudder and elevators as open frameworks provides durability with a scale appearance.

The design of the tail group replicates the inset hinges found in the full-scale Devastator. Ply ribs in the fin and stabilizer extend back into the rudder and elevators. This may appear more complicated than standard hinges, but the result is worth the time. Following the assembly order below will make success easily attainable.

1. Begin tail group assembly by laminating outlines from three strips of 1/16" x 1/2" balsa around forms.
2. Pin the cured outlines into place over the plan.
3. Install the tail framework parts in numerical order.
  1. Complete the fin framework first.
  2. Build the leading edge of the rudder.
    1. Pin down parts R1 thru R3.
    2. Assemble parts R4 thru R6 to form a pocket around hinge post V4--be careful not to glue the this assembly to the fin framework.

4. Install ren
5. Separate
6. cutting th
7. Sheet the
8. pinned fla
9. Unpin and
10. bottom of
- side.
8. Sand to s
9. Upper Hir
- and inser
10. Lower Hir
- fuse F9 w

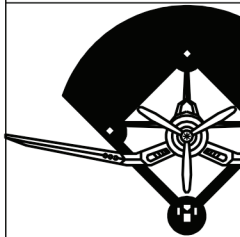
### ATIONS

650kV

ade

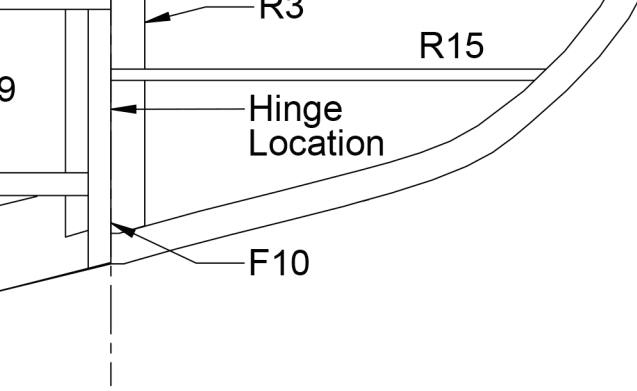
Ah

### INFIELD EN



Laser cut kit available!


[www.infieldengineering.com](http://www.infieldengineering.com)



remaining ribs R7 thru R15  
 separate the Rudder from the Fin by  
 cutting through the outline where shown.  
 glue the upper Fin with 1/16" balsa while  
 flat to the board.  
 and remove the support feet from the  
 top of the Fin and sheet the bottom

to the desired  
 shape.  
 Hinge--drill through R4, V4, and R6  
 and insert a 1/8" diameter hinge pin.  
 Hinges--hinge R3 to Fin at V8 and at  
 V4 with hinge of choice where shown.

Plan No. 1118

 <b>ENGINEERING</b> <sup>tm</sup> by Paul Kohlmann		
Title <b>60" Douglas TBD        Devastator</b>		
Size <b>X</b>	Dwg. No. <b>Douglas Devastator</b>	Rev <b>A</b>
Scale: 1:1	Weight: 75oz	Sheet 1 of 4