



FOAM, GLUE, TAPE AND A LITTLE IMAGINATION....



(Version 1.2 Shown In Picture)

(RC Model Airplane Construction Plans)

rcFoamFighters

FF-23 (Foam Fighter 23)

(Original Design by Paul Petty - Jan-July. 2009)

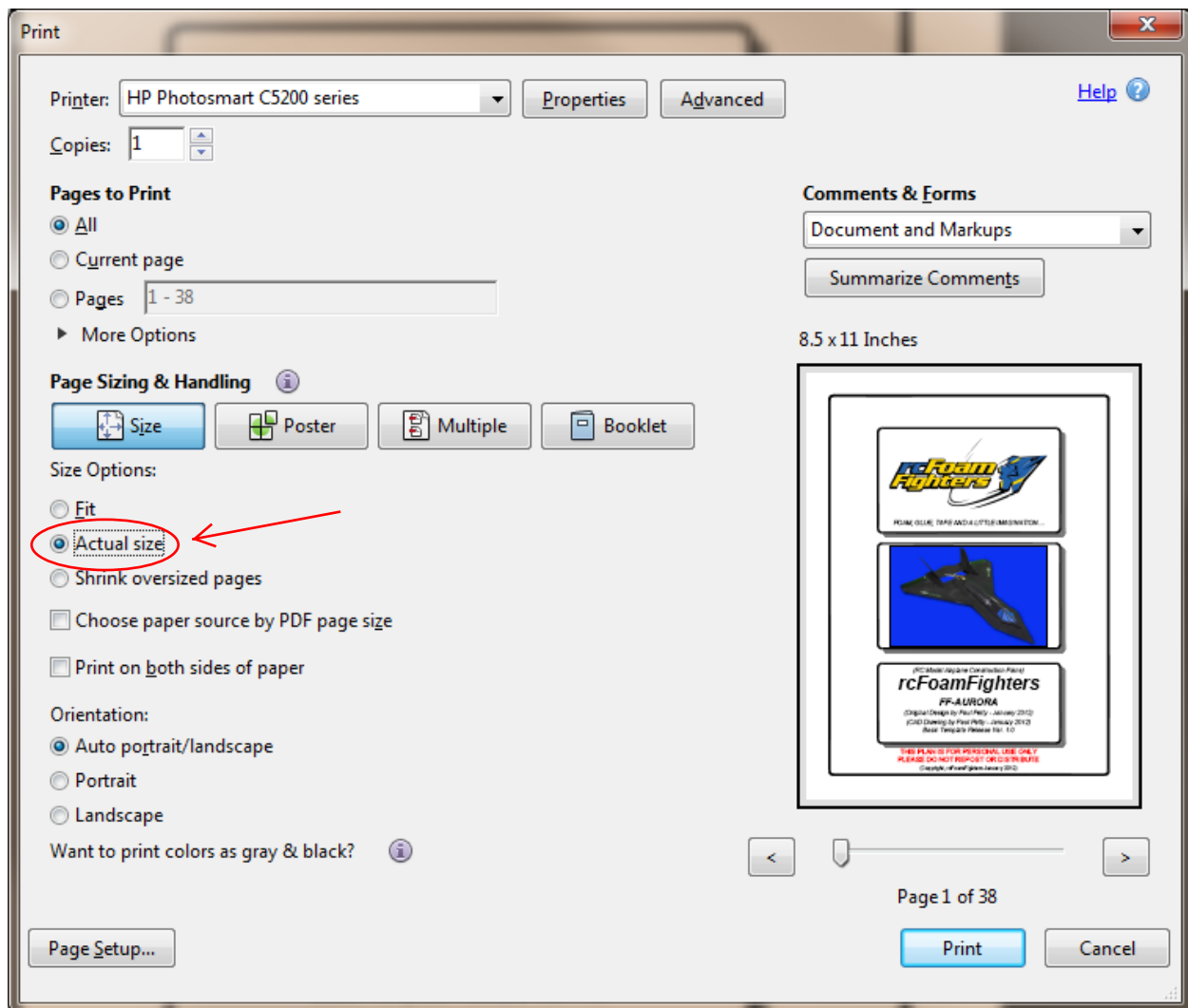
(CAD Drawing by Paul Petty - July 2009)

Basic Template Release Ver. 1.3

FREE PLAN - NOT TO BE SOLD

Very Important Printing Instructions!!!!

Make sure you print to "Actual Size" or your plan may come out the wrong scale. Do not use "Fit" or "Shrink oversized pages". Older Acrobat versions may also list "Fit to Printable Area" or similar as the default. Make sure you Select "Actual Size" or "Scaling to None" or similar setting to print your plans correctly. See example below.



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FF-23 (Foam Fighter 23)

Basic Template

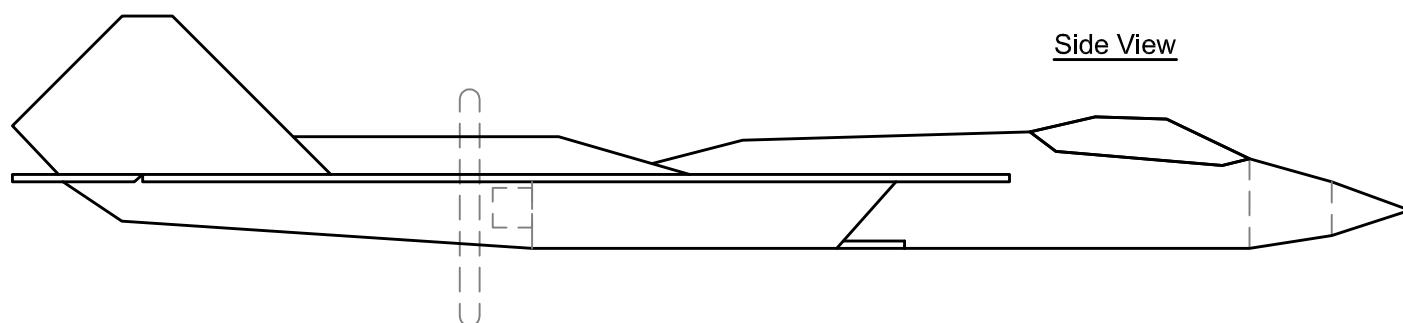
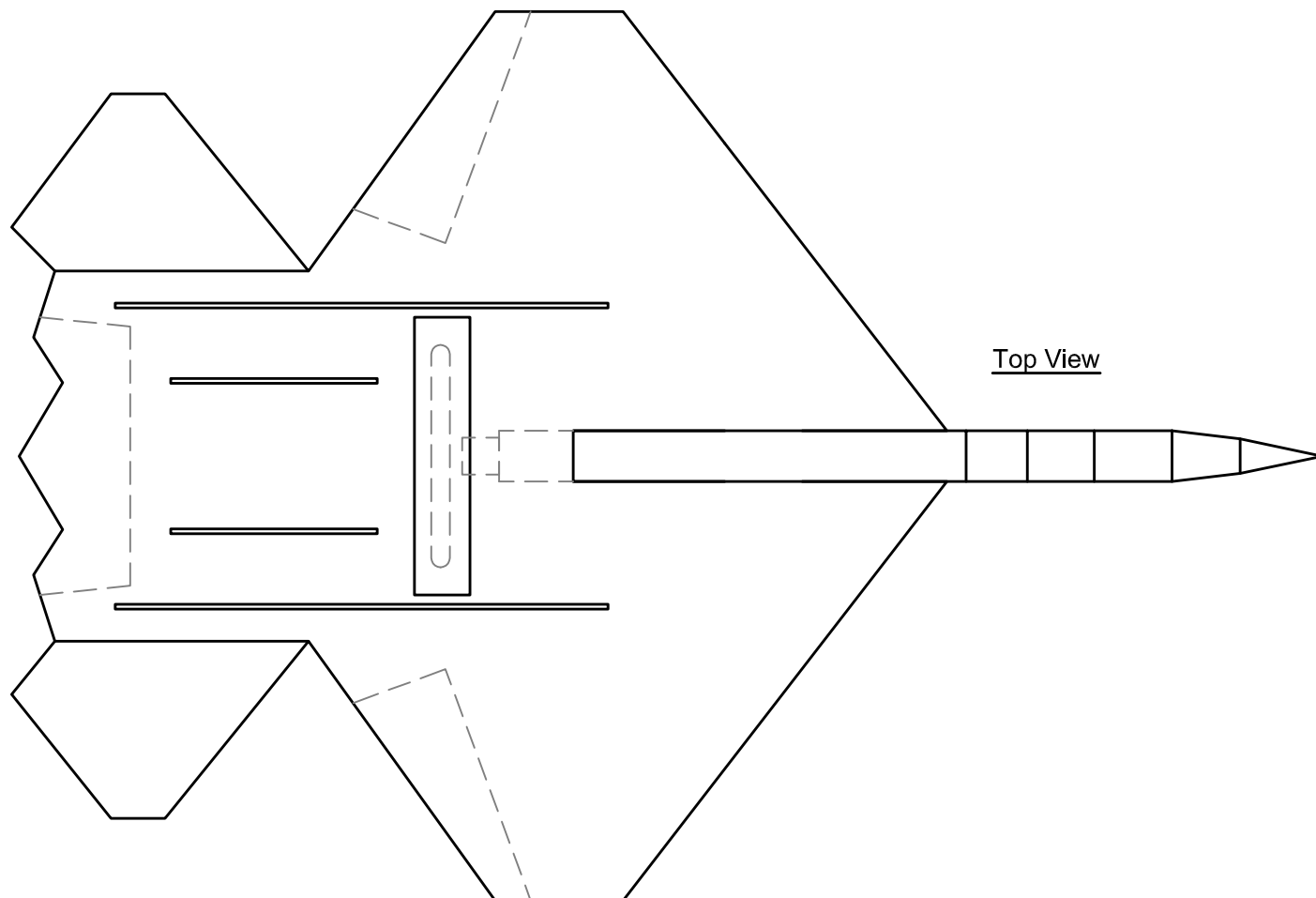
(Design by Paul Petty - Jan.-July 2009 - Rev 1.3)

(CAD Drawing by Paul Petty - July 2009)

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(Contact rcFoamFighters at: admin@rcfoamfighters.com)

(Please Visit Our Blog at: <http://rcfoamfighters.com/blog/>)



Recommend Parts:

BASIC SETUP (60+mph)

Motor: Suppo A2212/6 2200kV Brushless Motor
ESC: Suppo 30A Brushless ESC
Prop: APC 6x4
Battery: 2200mA (25C or better recommended)
Servos: 3 Each Micro Metal Gear
Radio & Receiver: Any 6-channel or better (2.4ghz preferred)

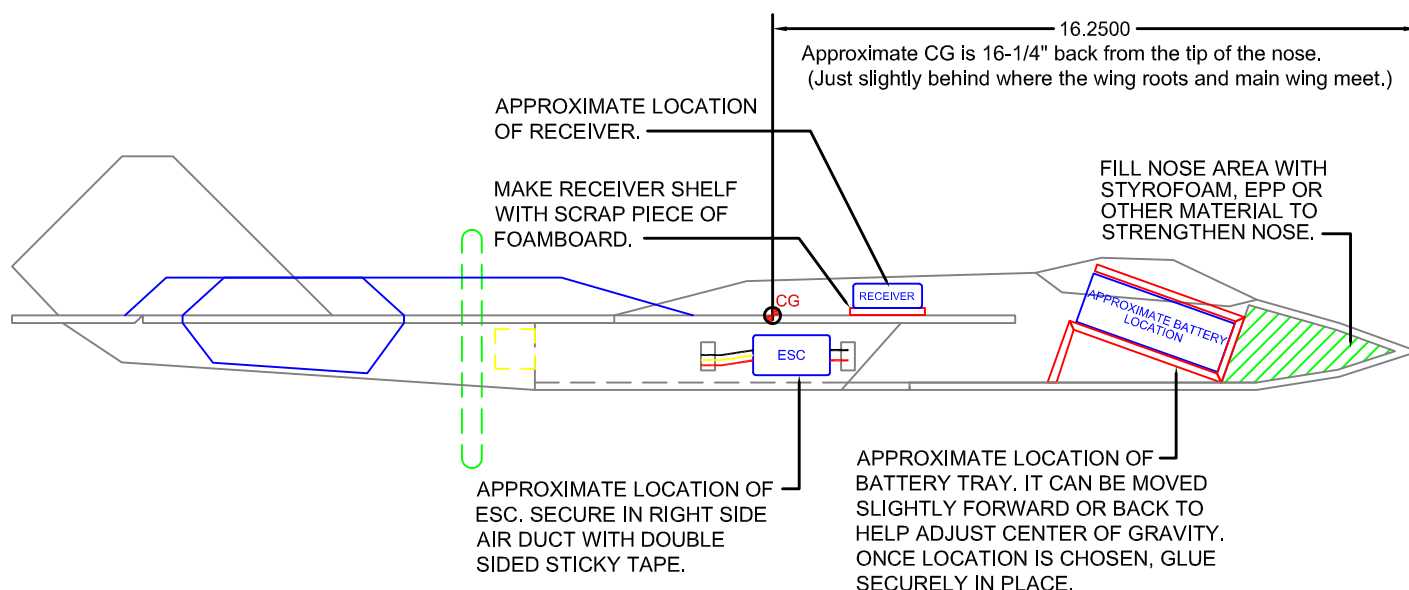
PERFORMANCE SETUP (80+mph)

Motor: Grayson Hobbies "Super Mega Jet" 2550kV Motor
ESC: 40A Brushless ESC
Prop: APC 6x5.5
Battery: 2200mA (30C recommended)
Servos: 3 Each Micro Metal Gear
Radio & Receiver: Any 6-channel or better (2.4ghz preferred)

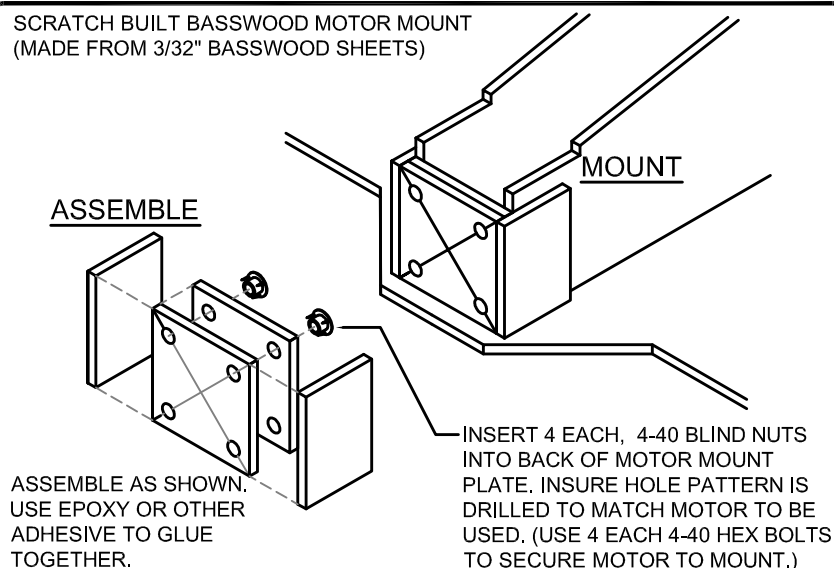
Plane was originally designed to be made from 3 Sheets of 20x30 Foamboard.
Depron or FanFold Foam with Carbon Spars may be used .

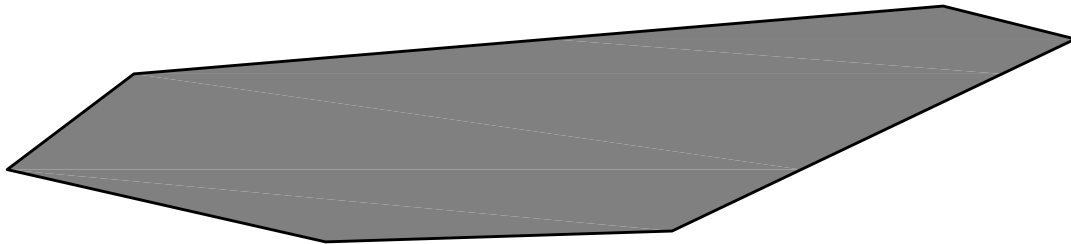
Disclaimer (Please Read):

- This is a design template for a high performance, high speed RC aircraft. This plane should only be built and flown by experienced pilots with adequate skill to fly fast, maneuverable planes.
- DO NOT fly this plane where it can endanger people, livestock or property.
- ANY PERSONS DECIDING TO BUILD AND FLY THIS PLANE DOES SO AT HIS/HER OWN RISK. RCFOAMFIGHTERS ASSUMES NO RESPONSIBILITY FOR THE PERFORMANCE OF THIS PLANE.
- This plane should only be launched via the side launch method. Do not attempt to launch from the top or bottom of the fuselage. Doing so can cause bodily harm if any hand or body part comes into contact with the fast spinning propeller.
- All minors should fly under the supervision of an adult or guardian.



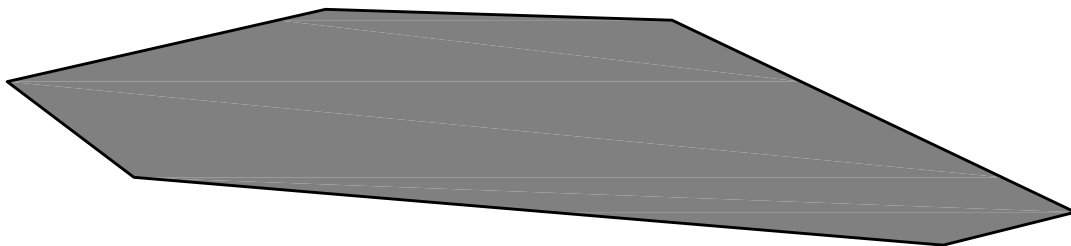
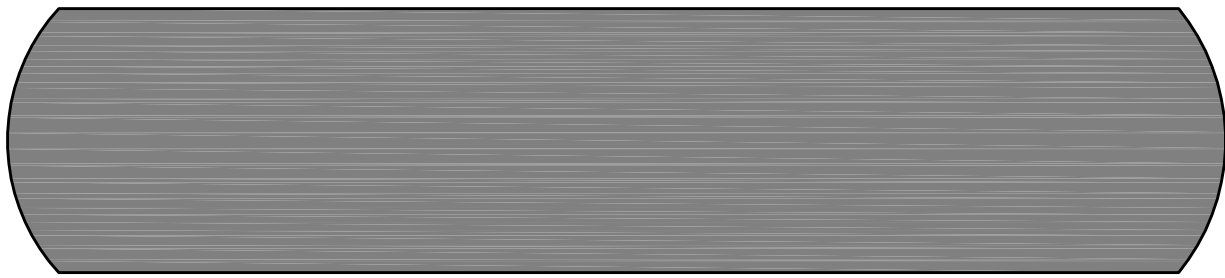
SCRATCH BUILT BASSWOOD MOTOR MOUNT (MADE FROM 3/32" BASSWOOD SHEETS)





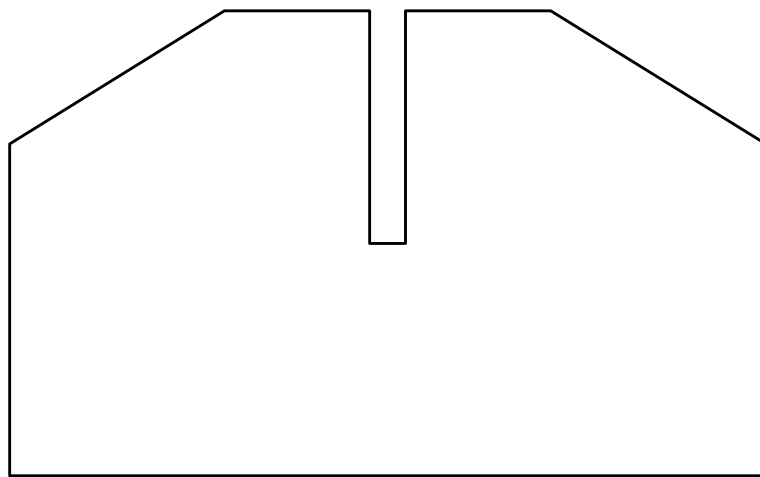
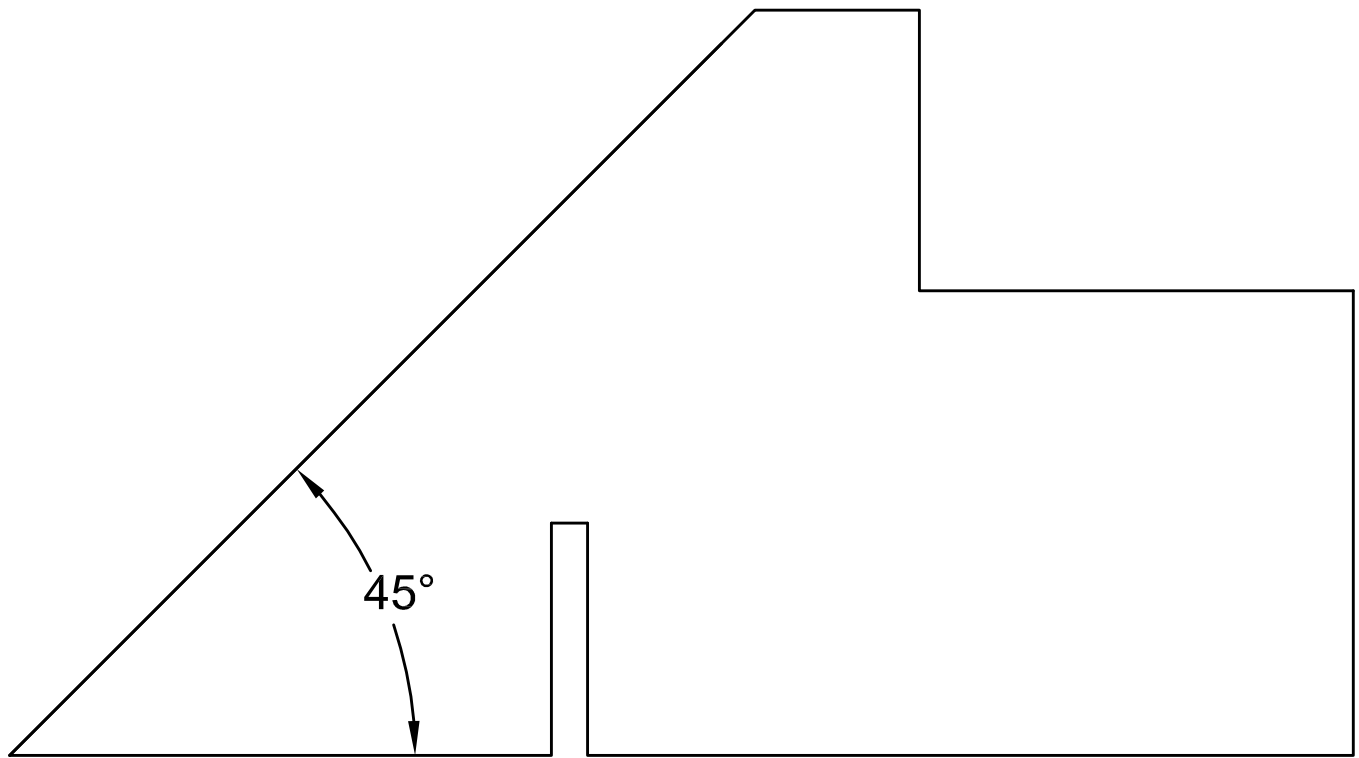
BACK

FRONT

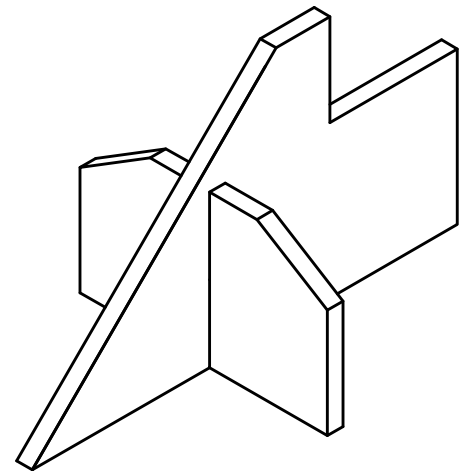


Cockpit Glass Templates

These can be used as patterns to cut the cockpit glass out of black tape or other material.



Assembled Tool View



TAIL FIN ANGLE TEMPLATE TOOL

These can be used as patterns to cut out the Tail Fin Angle Template Tool out of Foam Board or other material. Use this tool after assembled to hold the Tail Fins at 45° while your adhesive dries.

TEMPLATE ASSEMBLY KEY PLAN

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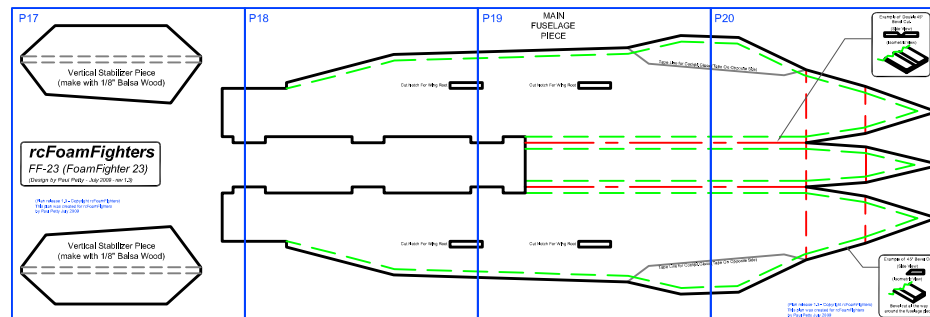
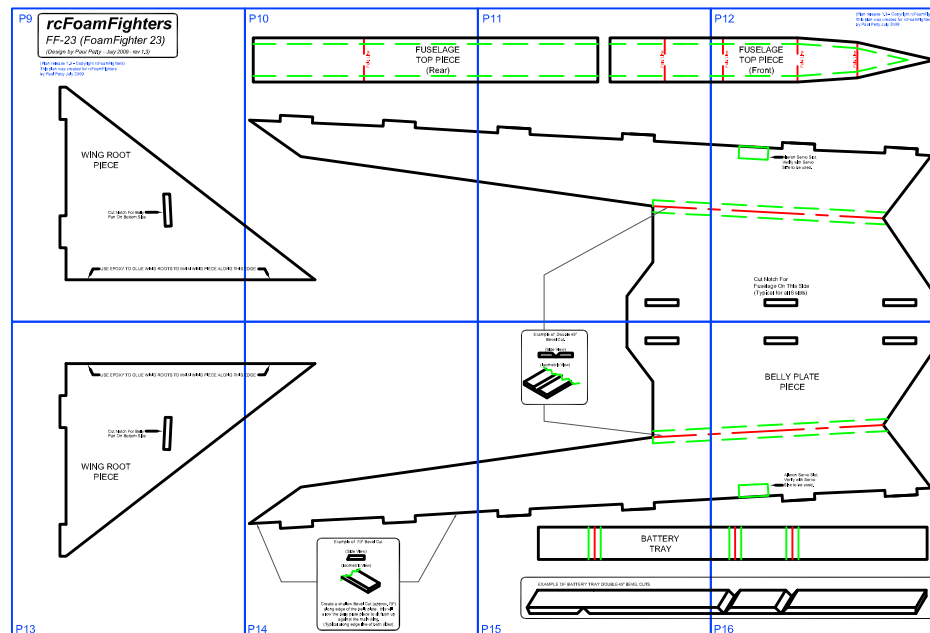
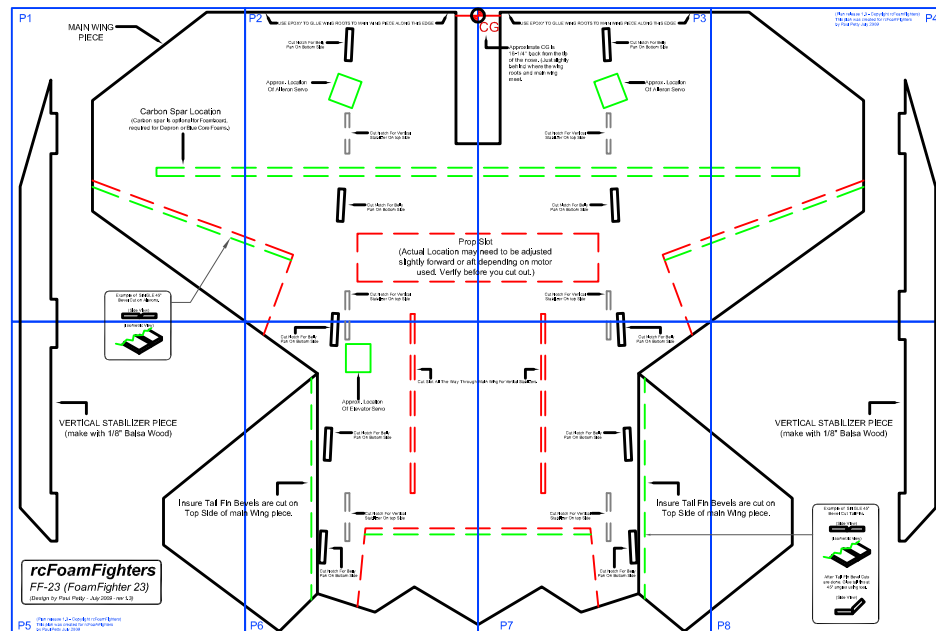
FF-23 (Foam Fighter 23)

(Design by Paul Petty - Jan.-July 2009 - Rev 1.3)

(CAD Drawing by Paul Petty - July, 2009)

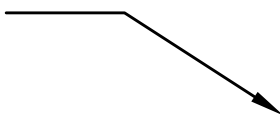
INSTRUCTIONS:

PRINT ALL TEMPLATE SHEETS. CUT AND ASSEMBLE AS SHOWN BELOW. USE SCOTCH TAPE TO SECURE SHEETS TOGETHER.



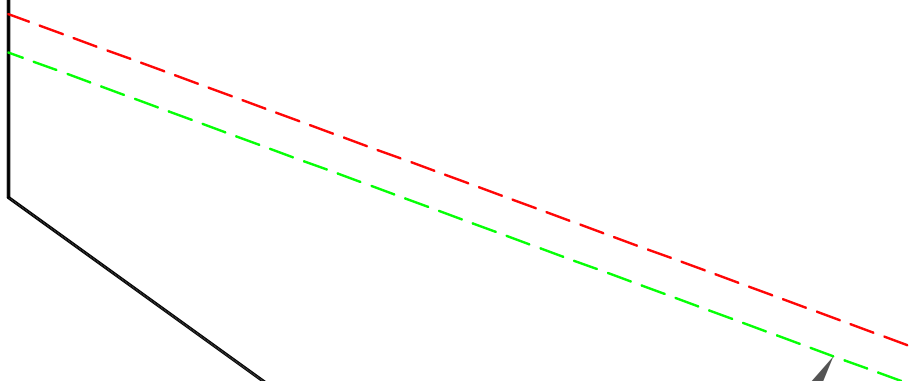
P1

MAIN WING
PIECE



Carbon Spar Location

(Carbon spar is optional for Foamboard,
required for Depron or Blue Core Foams.)



Example of SINGLE 45°
Bevel Cut on Ailerons.

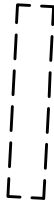
(Side View)



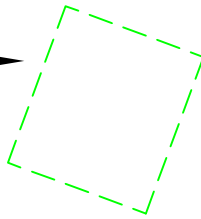
P2

USE EPOXY TO GLUE WING ROOTS TO MAIN WING PIECE ALONG THIS EDGE

Cut Notch For Belly
Pan On Bottom Side



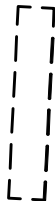
Approx. Location
Of Aileron Servo



Cut Notch For Vertical
Stabilizer On top Side



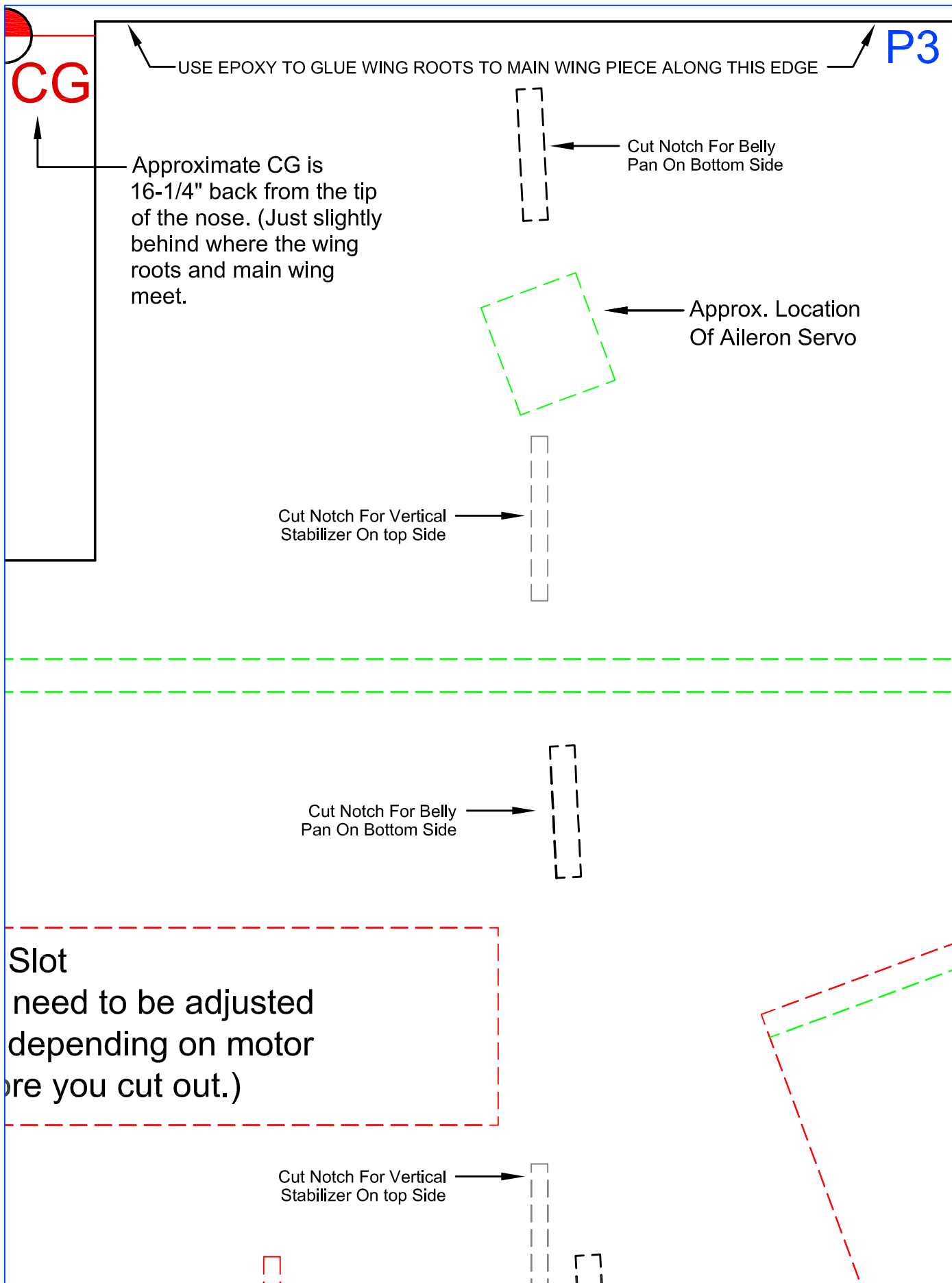
Cut Notch For Belly
Pan On Bottom Side

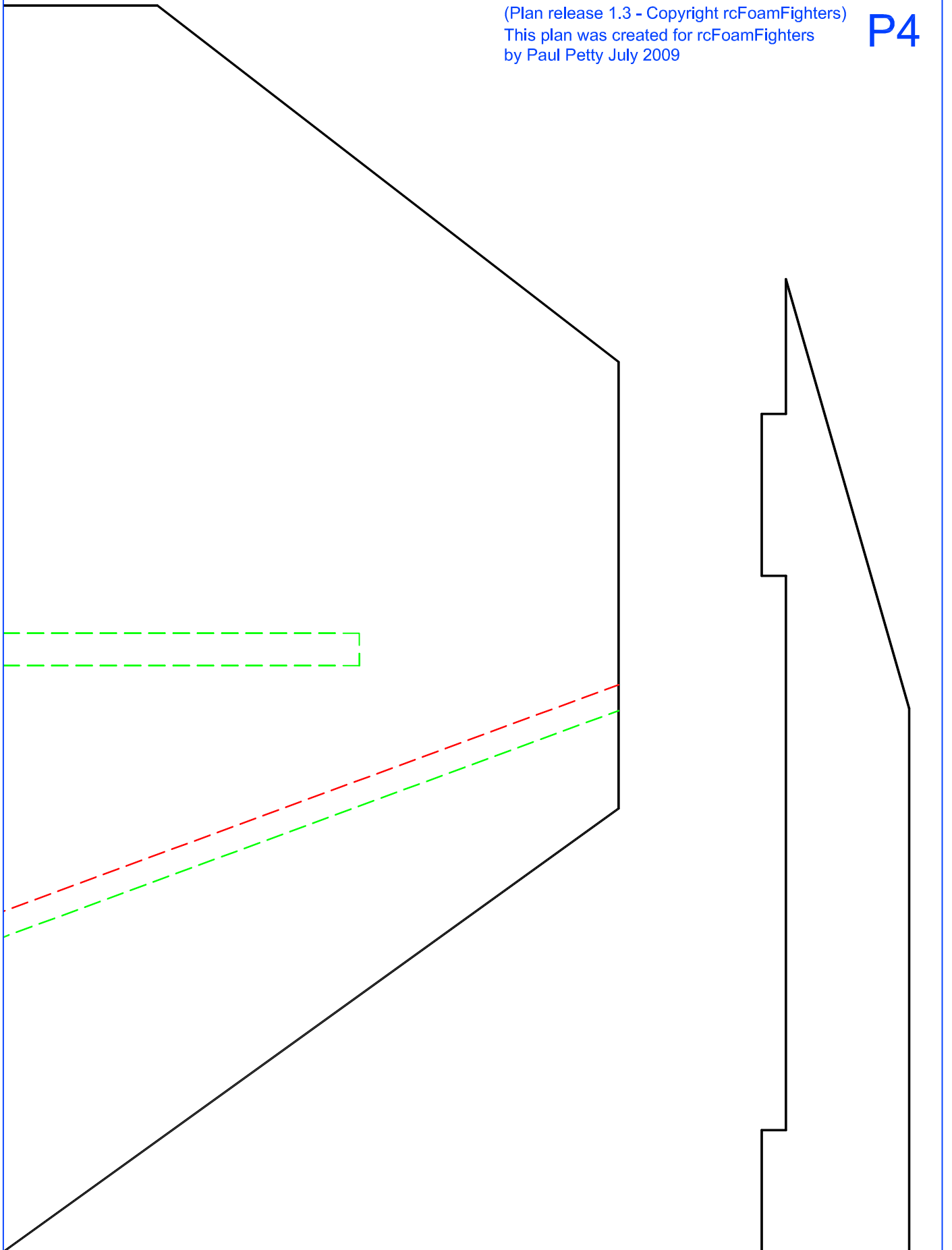


Prop
(Actual Location may
slightly forward or aft
used. Verify before

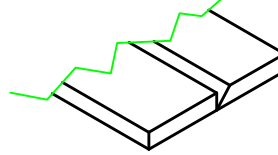
Cut Notch For Vertical
Stabilizer On top Side







(Isometric View)



VERTICAL STABILIZER PIECE
(make with 1/8" Balsa Wood)

Insure Tail Fin Be
Top Side of main

rcFoamFighters

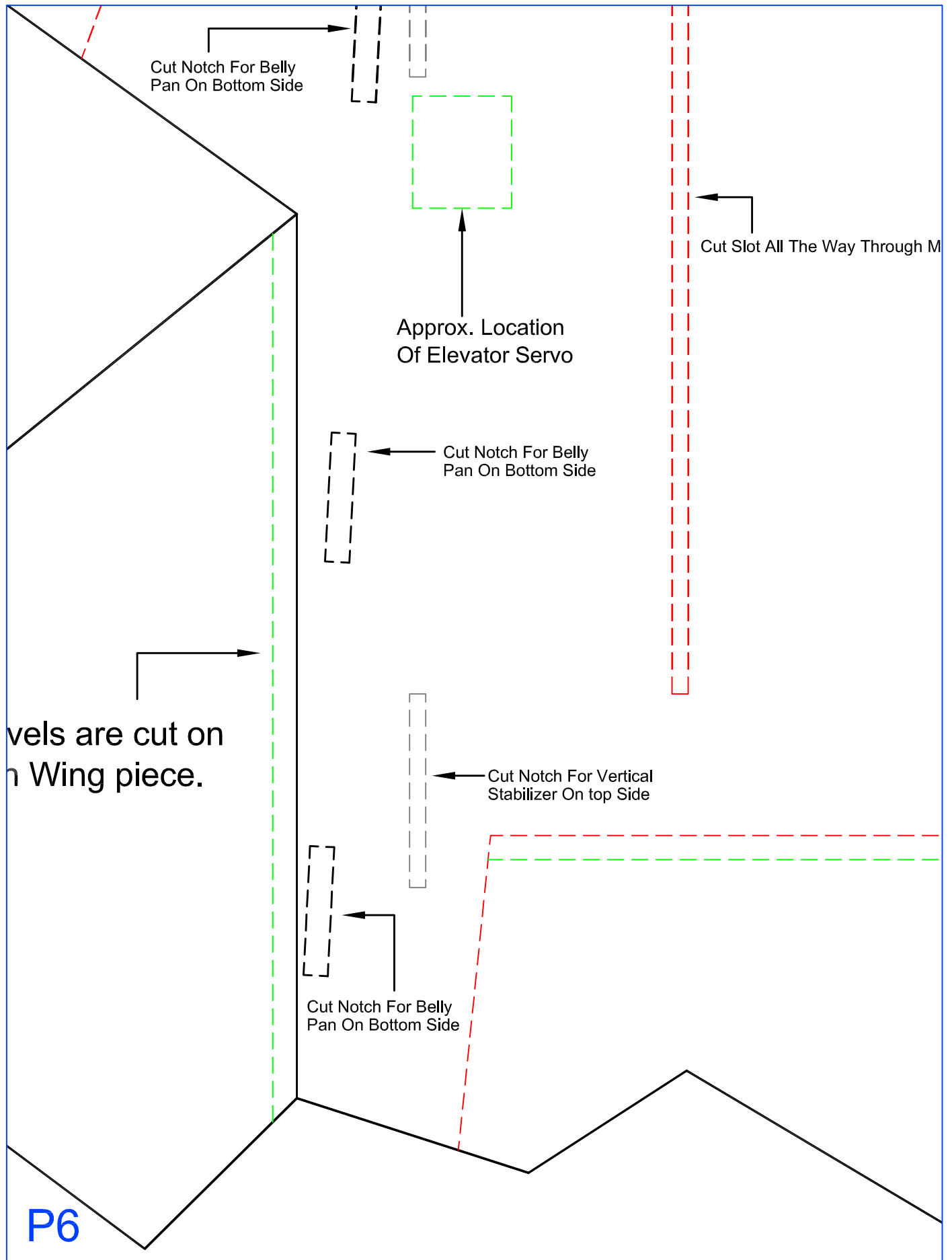
FF-23 (FoamFighter 23)

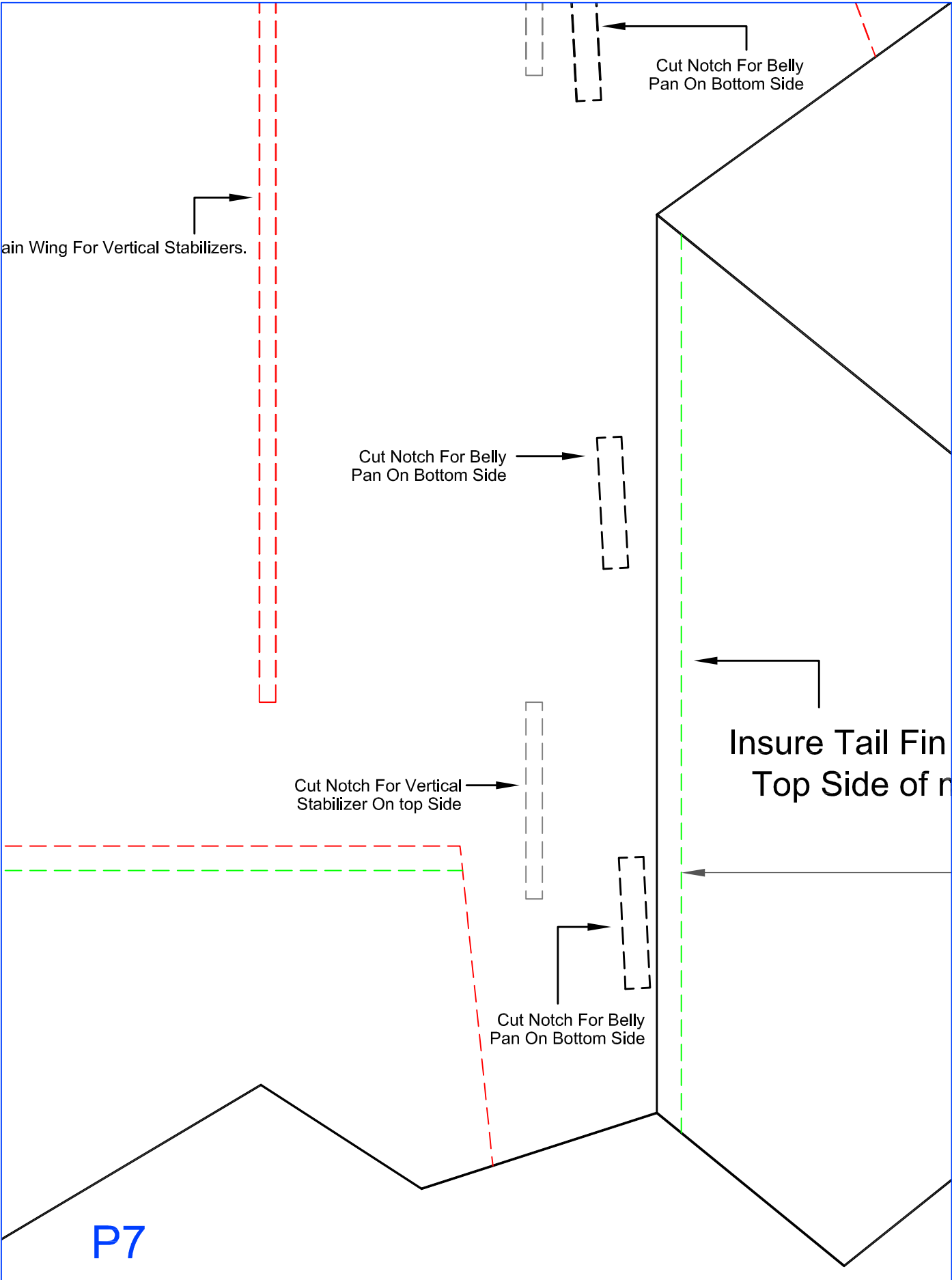
(Design by Paul Petty - July 2009 - rev 1.3)

P5

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VERTICAL STABILIZER PIECE
(make with 1/8" Balsa Wood)

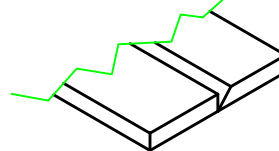
Bevels are cut on
main Wing piece.

Example of SINGLE 45°
Bevel Cut Tail Fins.

(Side View)

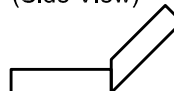


(Isometric View)



After Tail Fin Bevel Cuts
are done, Glue tail fins at
45° angles using tool.

(Side View)



P9

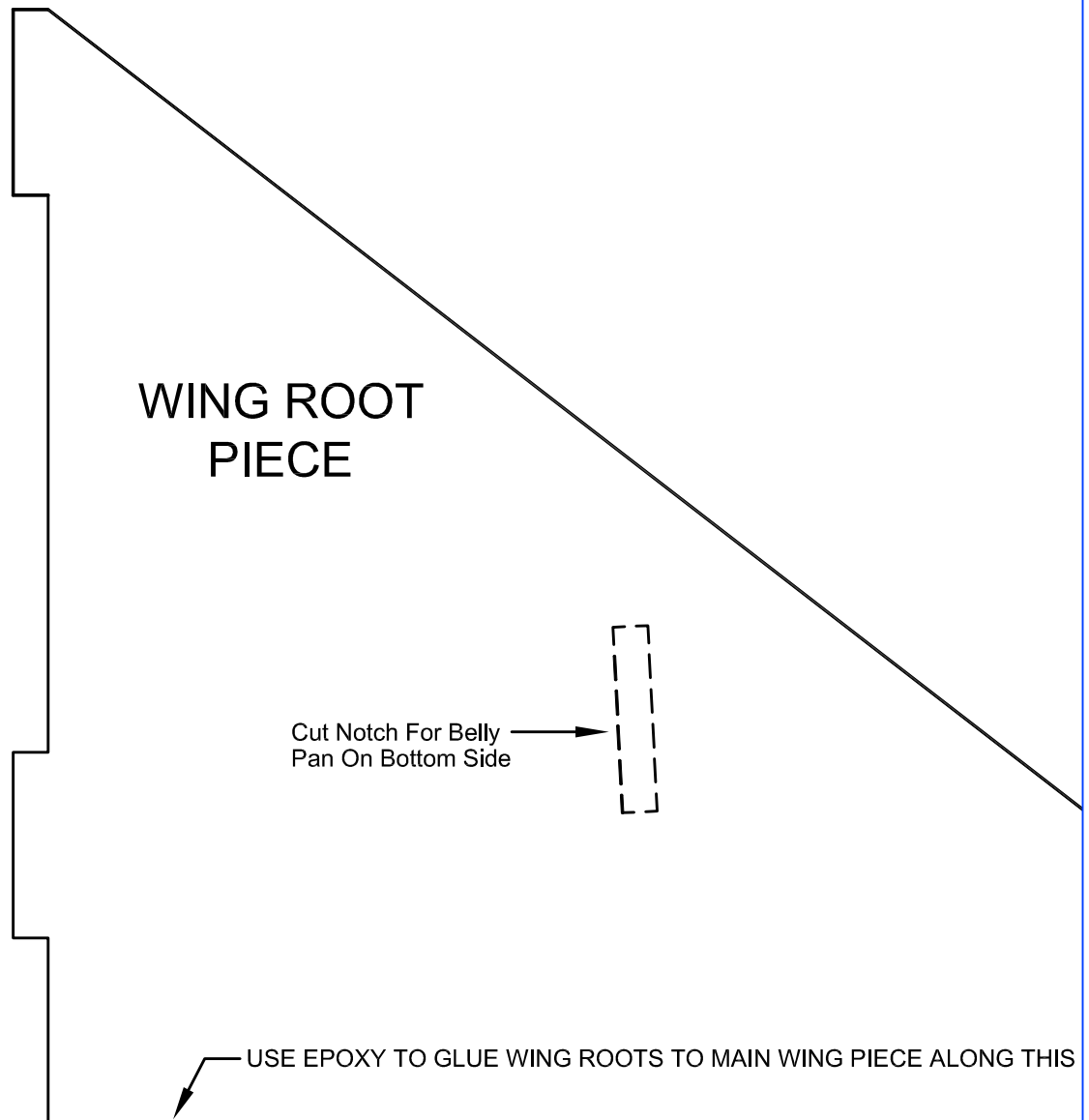
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FF-23 (FoamFighter 23)

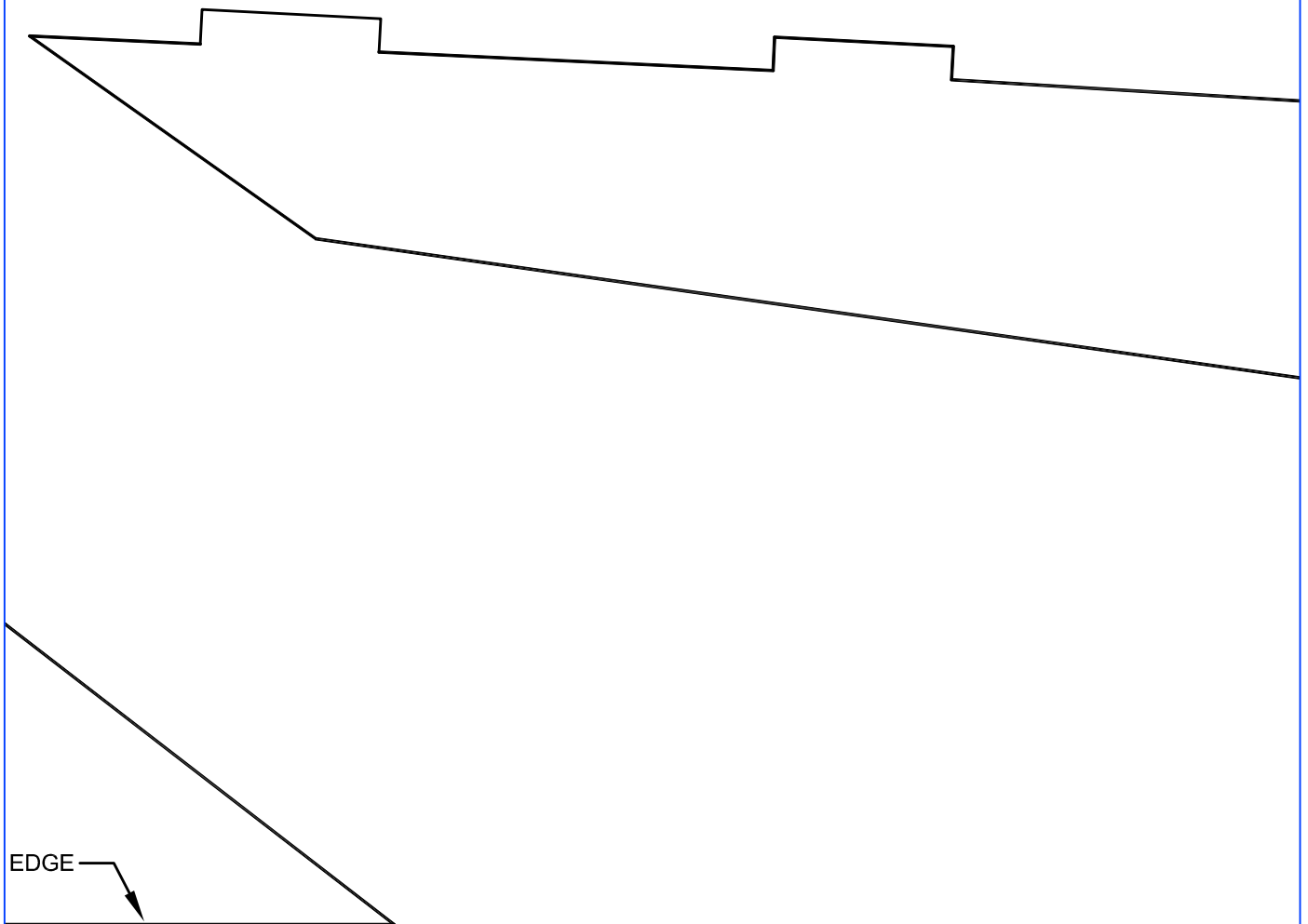
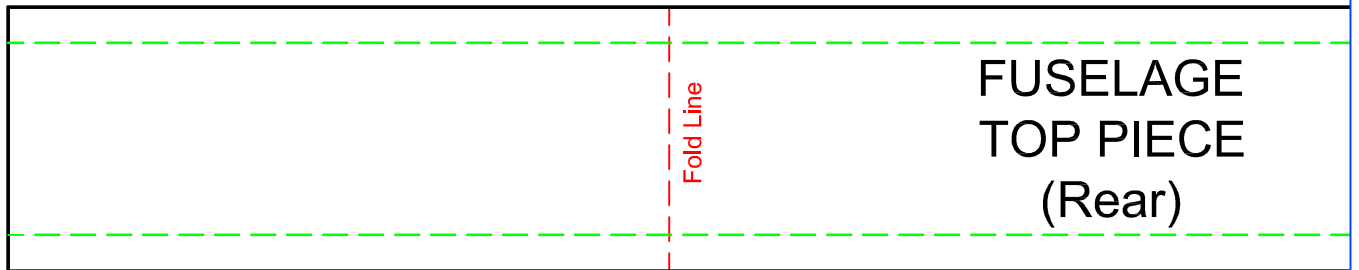
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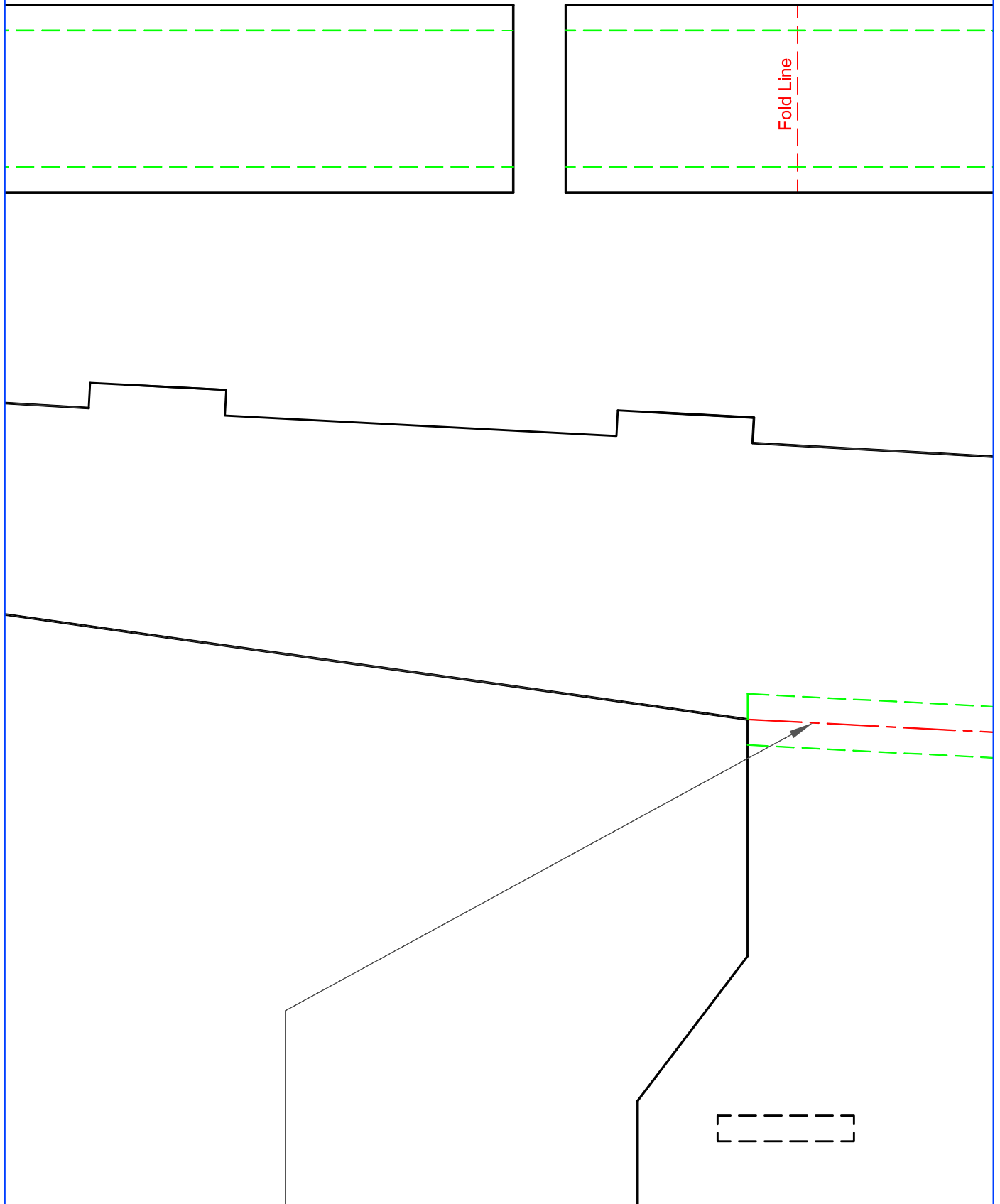
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P10

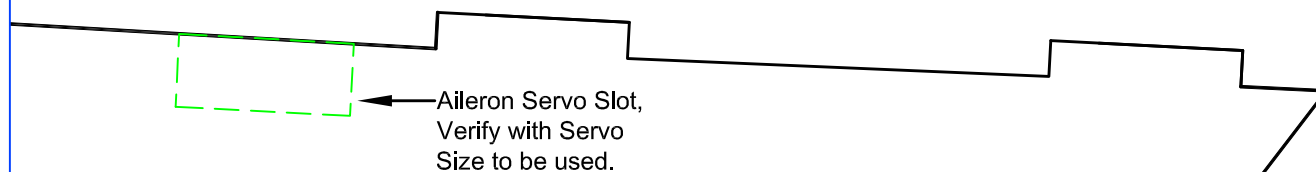
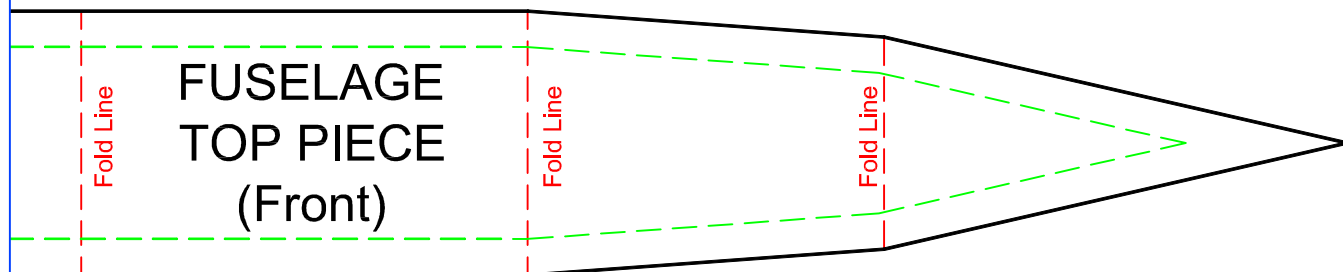


P11

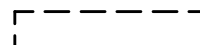
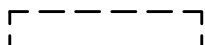


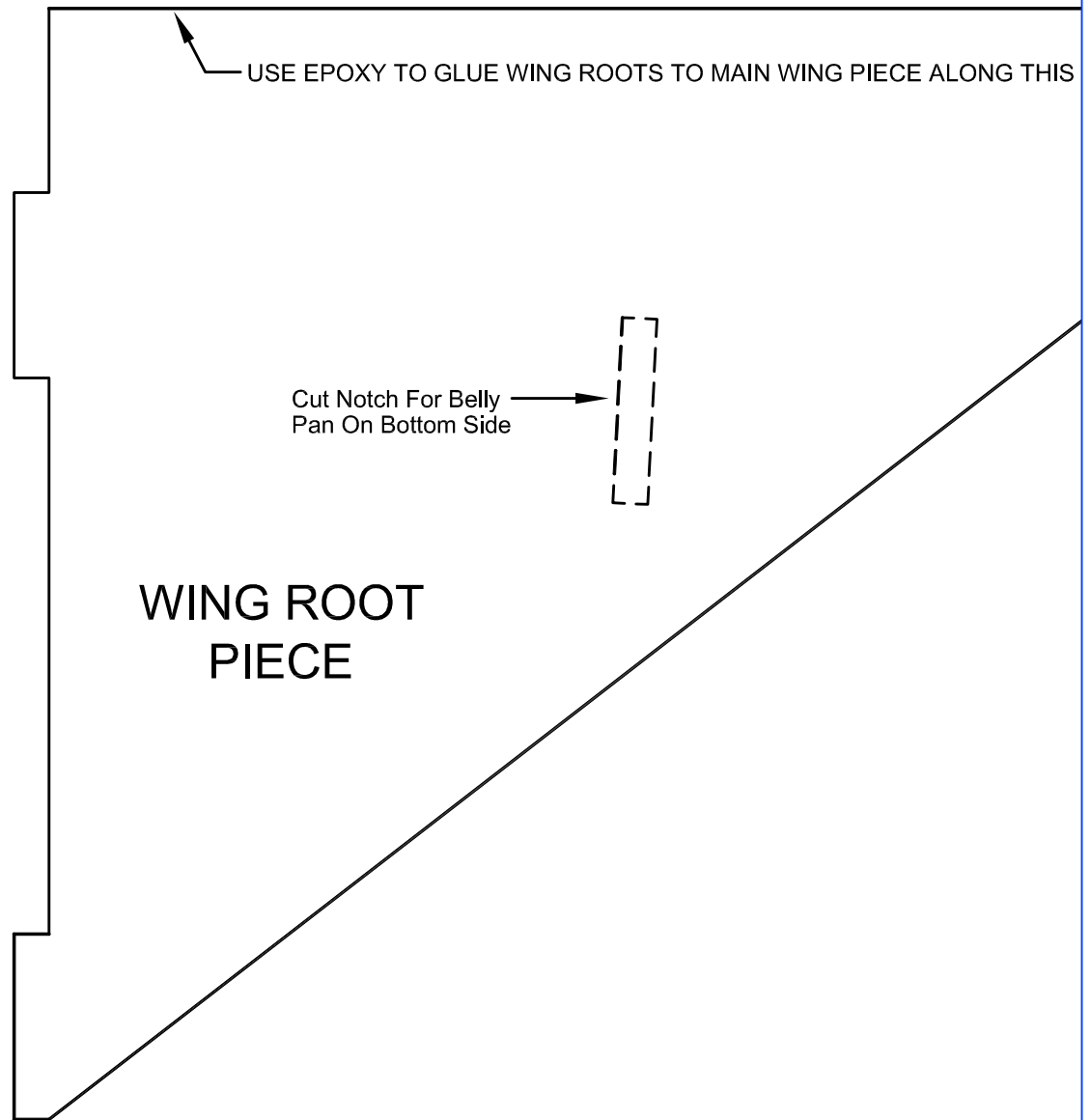
P12

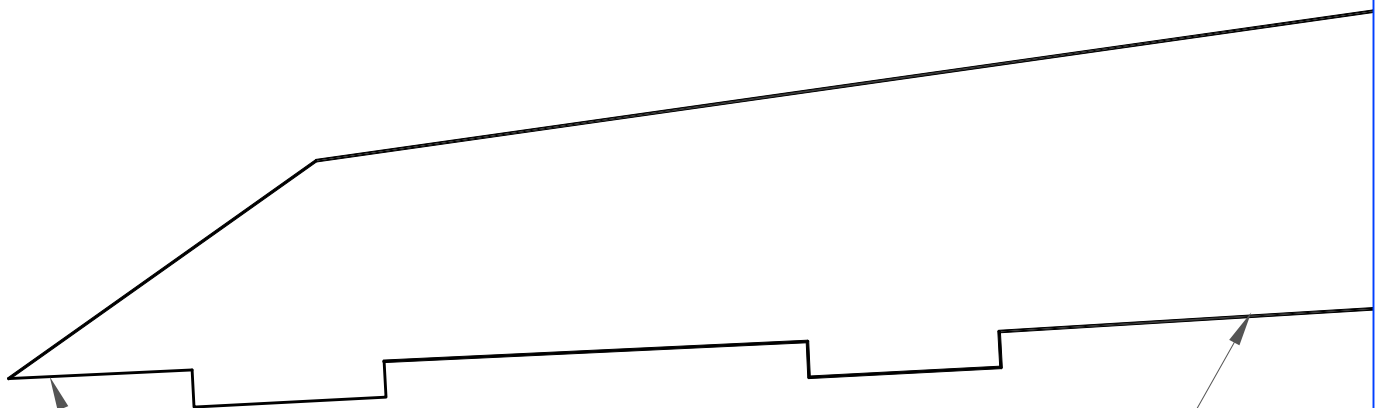
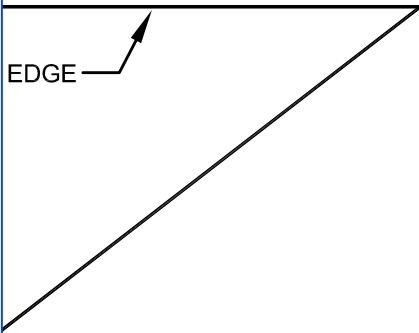
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Cut Notch For
Fuselage On This Side
(Typical for all 6 slots)






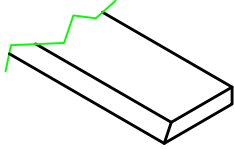


Example of 70° Bevel Cut

(Side View)



(Isometric View)



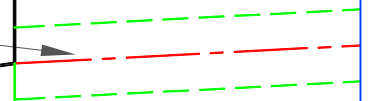
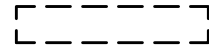
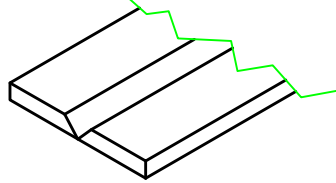
Create a shallow Bevel Cut (approx. 70°) along edge of the belly plate, this will allow the belly plate piece to sit flush up against the main wing.
(Typical along edge line of both sides)

Example of Double 45°
Bevel Cut.

(Side View)

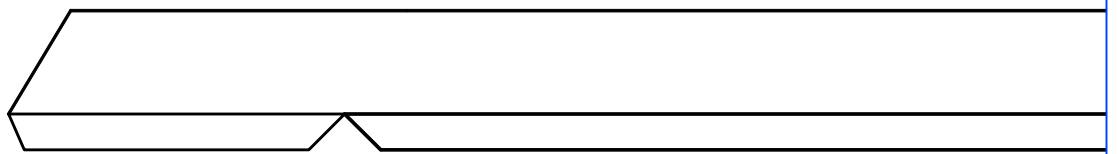


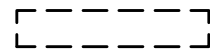
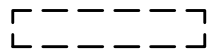
(Isometric View)



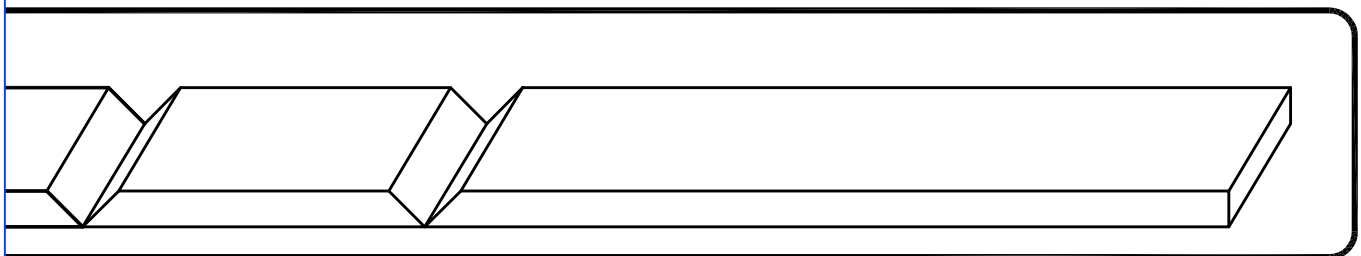
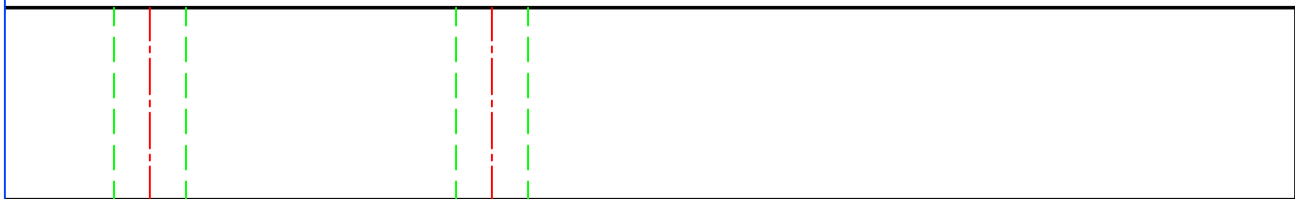
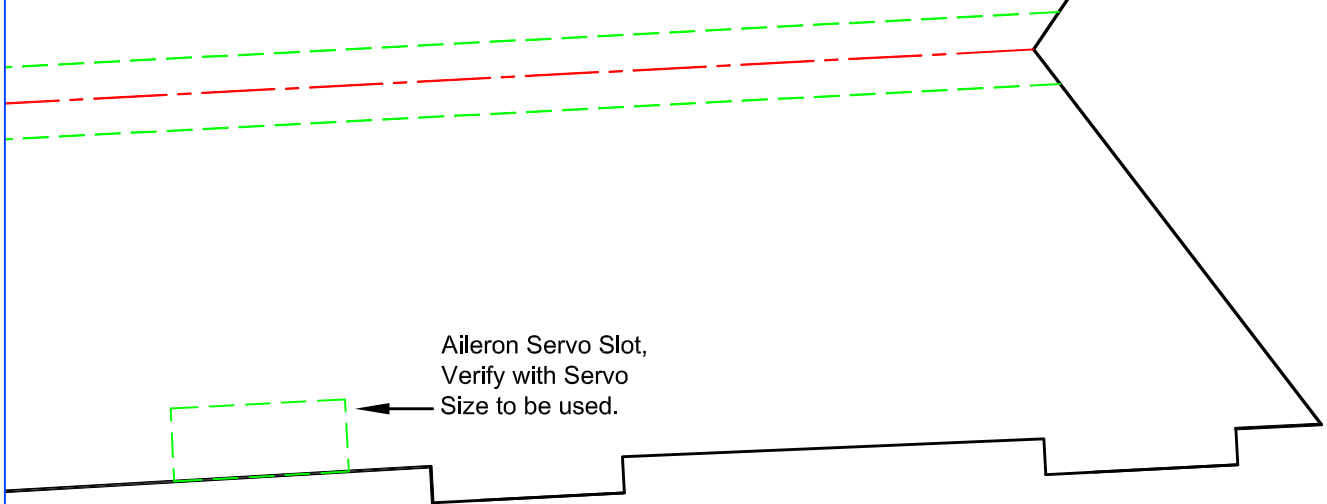
BATTERY
TRAY

EXAMPLE OF BATTERY TRAY DOUBLE 45° BEVEL CUTS

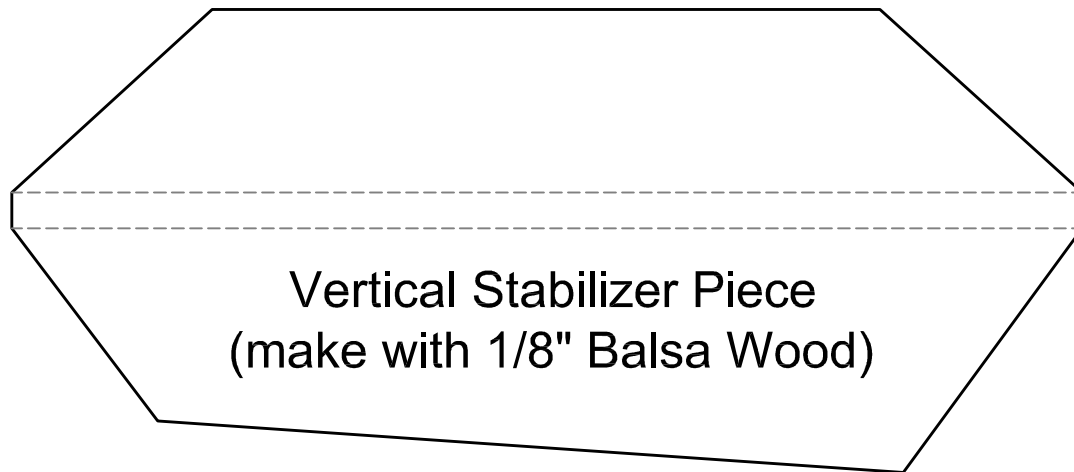




BELLY PLATE PIECE



P17

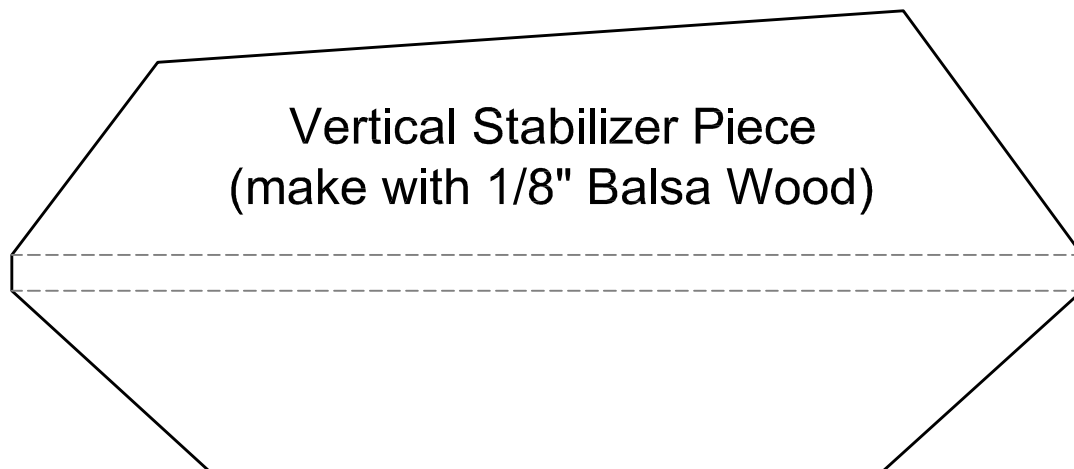


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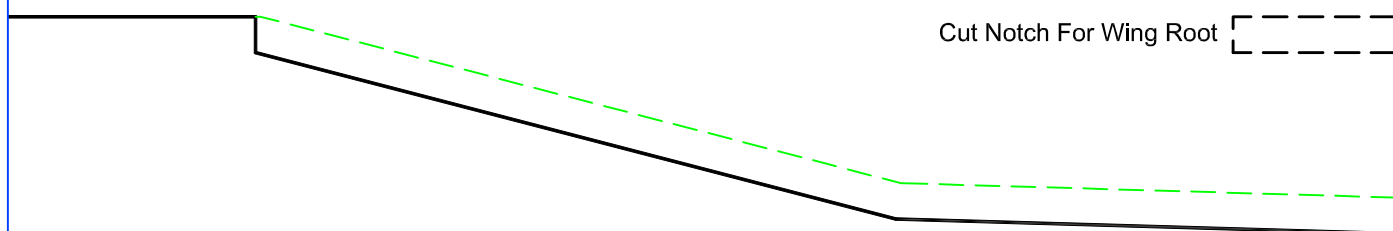
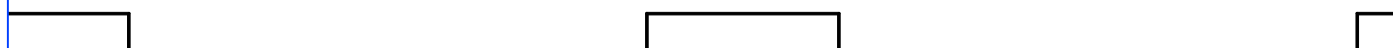
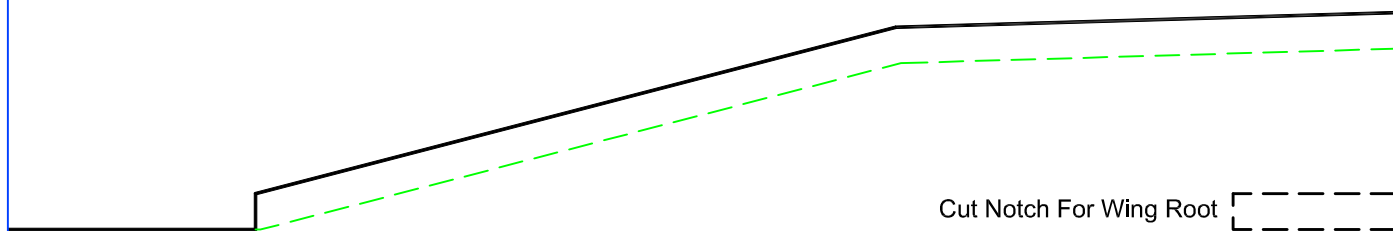
FF-23 (FoamFighter 23)

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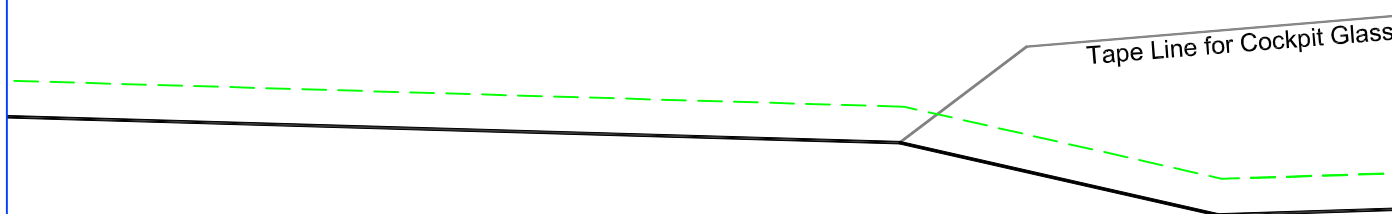
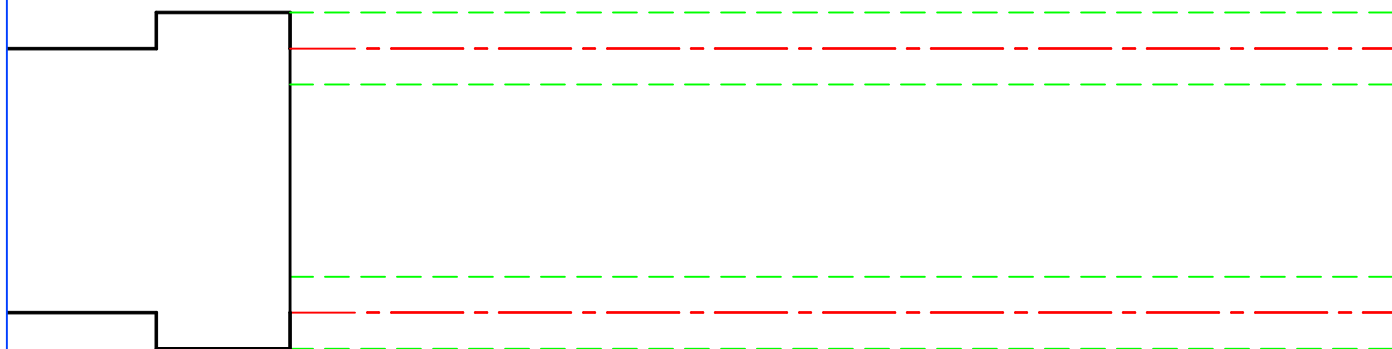
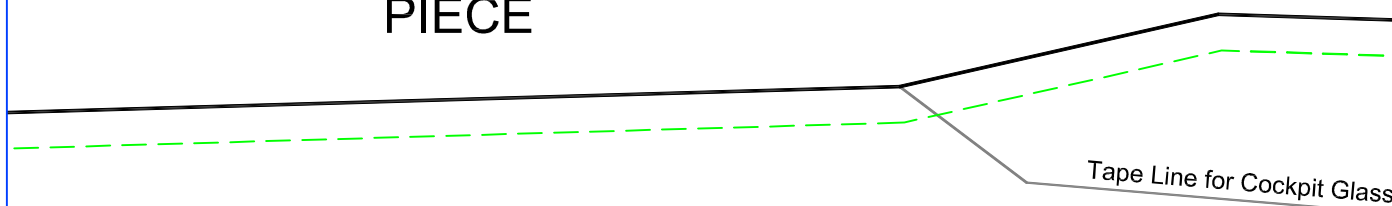


P18



P19

MAIN FUSELAGE PIECE



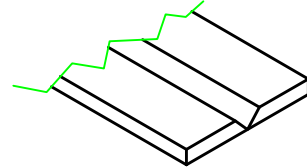
P20

Example of Double 45°
Bevel Cut.

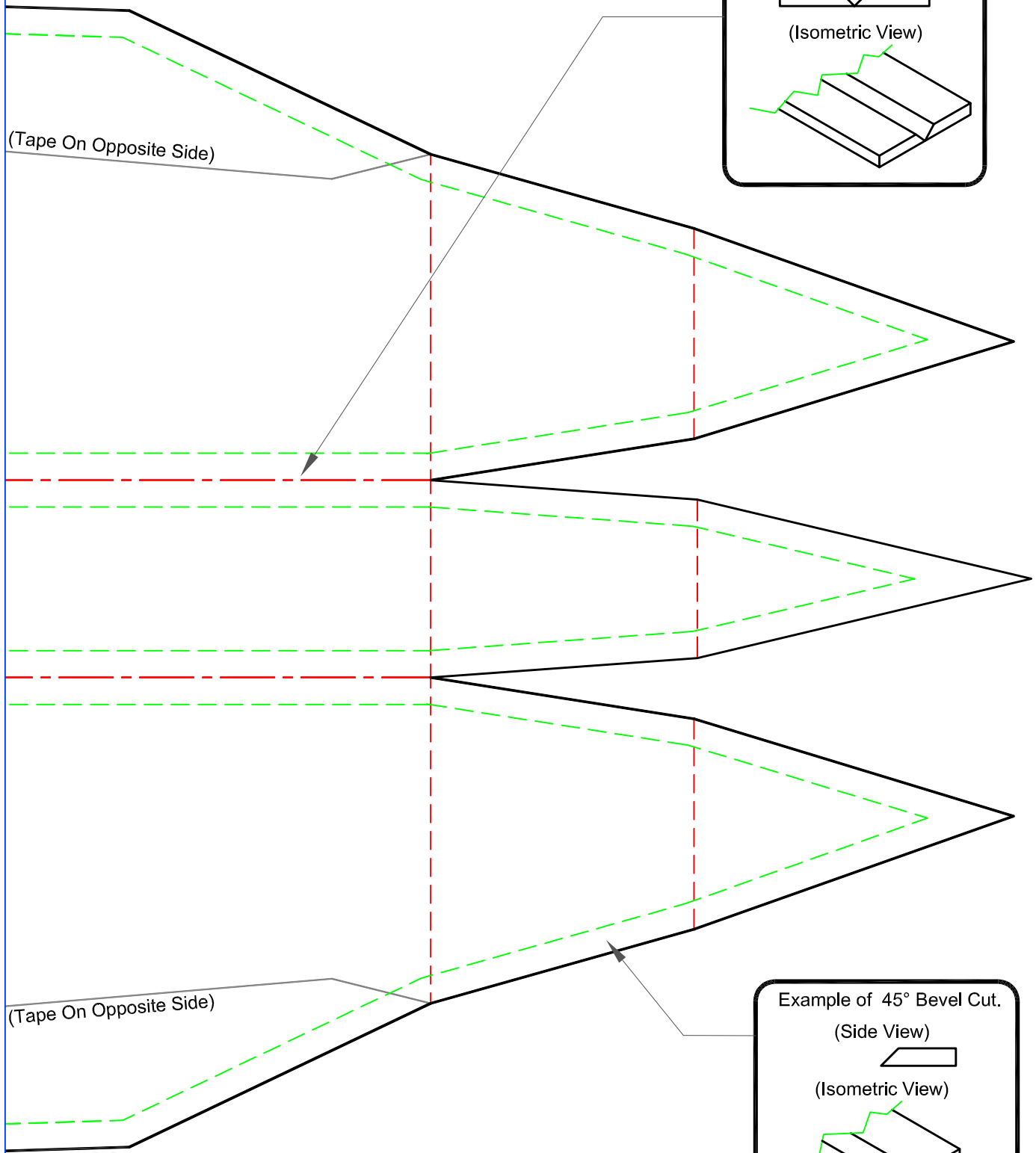
(Side View)



(Isometric View)



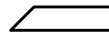
(Tape On Opposite Side)



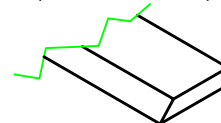
(Tape On Opposite Side)

Example of 45° Bevel Cut.

(Side View)



(Isometric View)



Bevel cut all the way
around the fuselage piece.

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