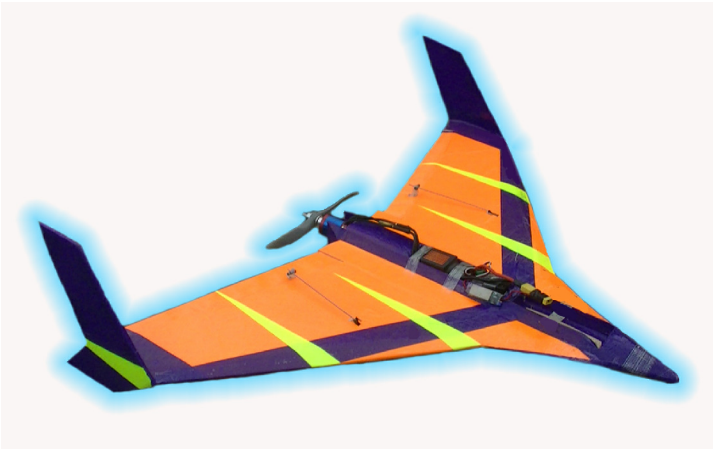
FOAM, GLUE, TAPE AND A LITTLE IMAGINATION....



(RC Model Airplane Construction Plans)

rcFoamFighters

FF-SkyFighter V4

(Original Design by Jon McCarty - Mar. 2010)

(CAD Drawing by Paul Petty - Apr 2010)

Basic Template Release Ver. 1.0

FREE PLAN - NOT TO BE SOLD

rcFoamFighters

FF-SkyFighter V4 Basic Template

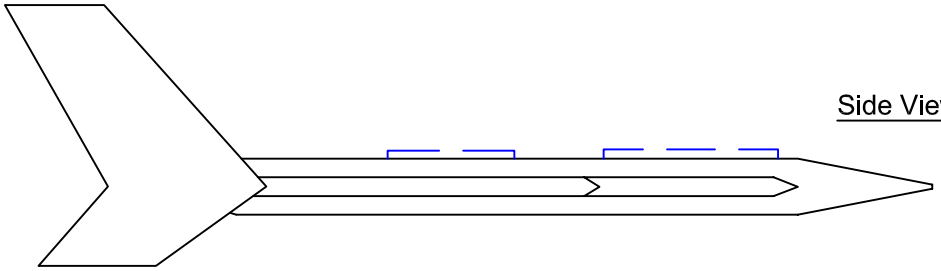
(Design by Jon McCarty - Feb 2010 - Rev 1.0)
(CAD Drawing by Paul Petty - Apr 2010)
(Basic Template Release 1.0 - Copyright rcFoamFighters)
(Contact rcFoamFighters at: admin@rcfoamfighters.com)
(Please Visit Our Blog at: http://rcfoamfighters.com/blog/)

Basic Specs as built by rcFoamFighters:

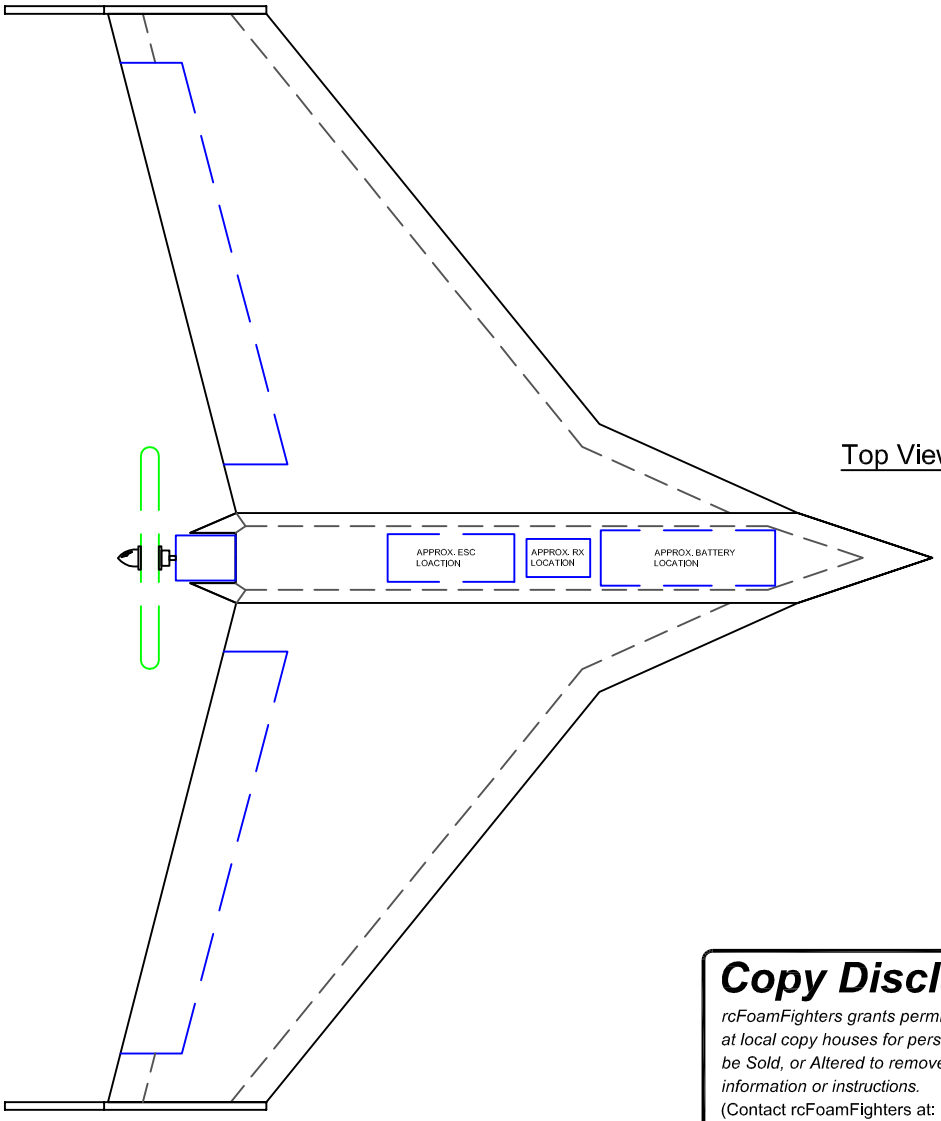
Wingspan: 34.33 Inches (87.2cm)
Length: 23.4 Inches (59.44cm)
All Up Weight (AUW): 37oz. (1048.5 gms) with Basic Setup

Note, weight and top speed may vary depending on materials, motor, battery and electronics used. The weight given here is based on the model Jon of the rcFoamFighters Bloody Mick's Squad made using 1.9 EPP Foam covered in fiberglass weave.

Side View



Top View



Copy Disclaimer

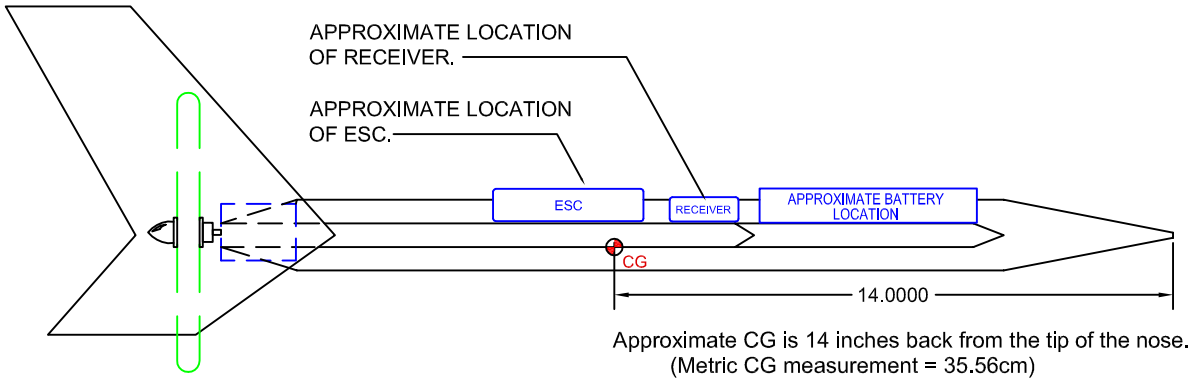
RECOMMENDED PARTS:

BASIC OPTION	PERFORMANCE OPTION
Motor: Turnigy SK3536-1400	Motor: Turnigy 3648-1450
ESC: HK 90A	ESC: HK 90A
Battery: 2650mAh 3s	Battery: 2450mAh 5s
Prop: APC 10x5	Prop:APC Sport 7x8
Approx Top Speed: 80 mph	Approx Top Speed: 120 mph
Servos: 2 Each Metal Gear	Servos: 2 Each Metal Gear
Radio & Receiver: Any 4-ch or better (2.4ghz preferred)	Radio & Receiver: Any 4-ch or better (2.4ghz preferred)

Plane was originally designed to be made from 1ea 24x36 Sheet of 15mm 1.9 EPP Foam and 1ea 12x36 Sheet of 6mm 1.9 EPP Foam. Foam was then covered in Henry's style fiberglass weave and 3M 90 adhesive. Other materials than EPP may be used, but additional carbon fiber or wood spars may be required.

Disclaimer (Please Read):

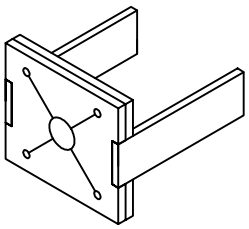
- This is a design template for a high performance, high speed RC aircraft. This plane should only be built and flown by experienced pilots with adequate skill to fly fast, maneuverable planes.
- DO NOT fly this plane where it can endanger people, livestock or property.
- ANY PERSONS DECIDING TO BUILD AND FLY THIS PLANE DOES SO AT HIS/HER OWN RISK AND LIABILITY. 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 EXTREME 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.



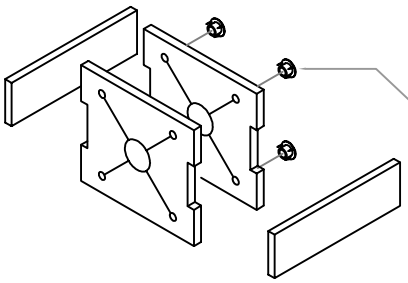
Approximate CG is 14 inches back from the tip of the nose.
(Metric CG measurement = 35.56cm)

EXAMPLE OF SCRATCH BUILT MOTOR MOUNT (MADE FROM 1/8" PLYWOOD SHEETS)

ASSEMBLE AS SHOWN. USE EPOXY OR OTHER ADHESIVE TO GLUE TOGETHER.



ASSEMBLED VIEW



EXPLODED VIEW

INSERT 4 EACH, 4-40 BLIND NUTS INTO BACK OF MOTOR MOUNT PLATE. INSURE HOLE PATTERN IS DRILLED TO MATCH MOTOR TO BE USED. (USE 4 EACH 4-40 HEX BOLTS TO SECURE MOTOR TO MOUNT.)

TEMPLATE ASSEMBLY KEY PLAN

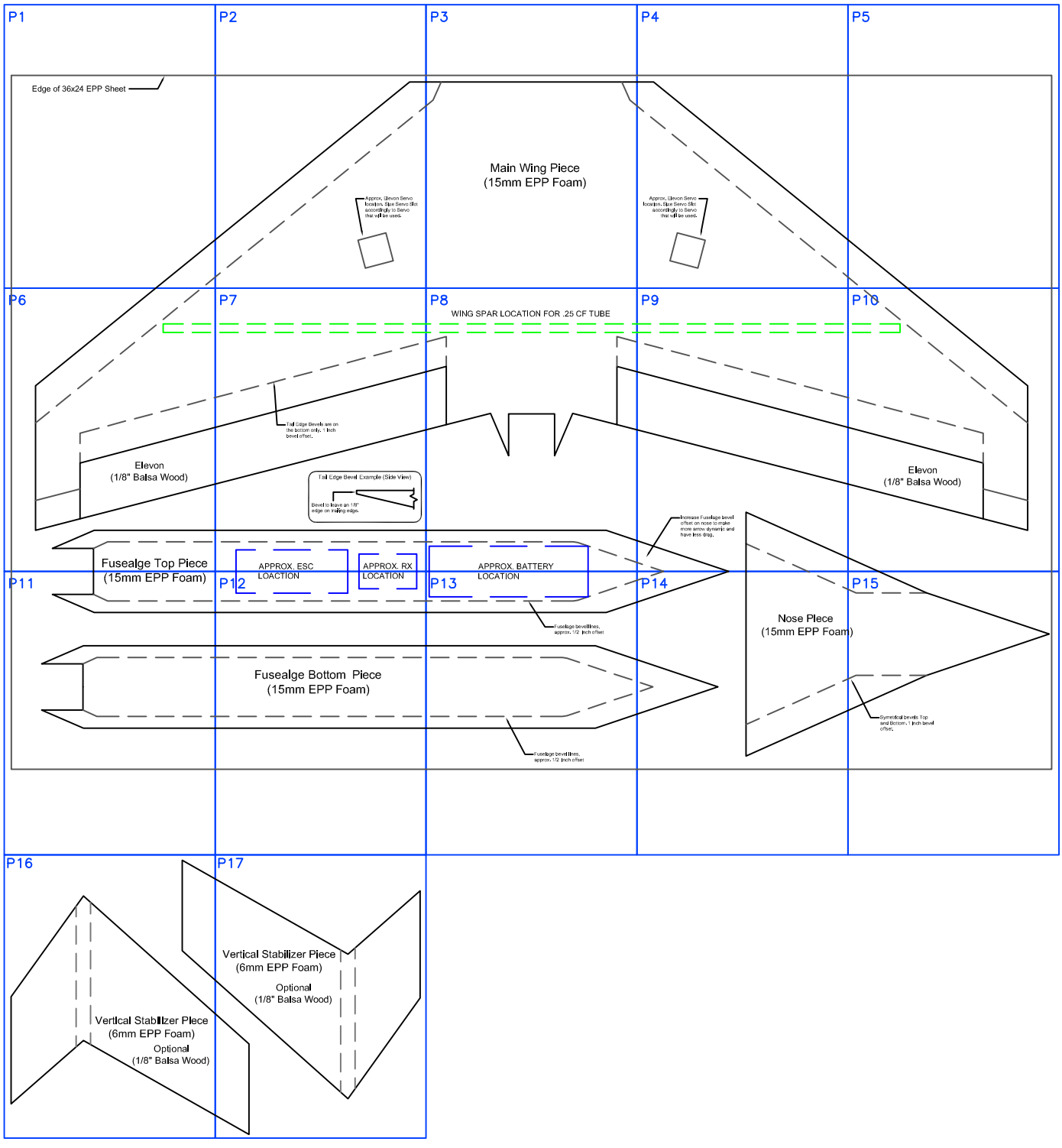
rcFoamFighters

FF-SkyFighter V4

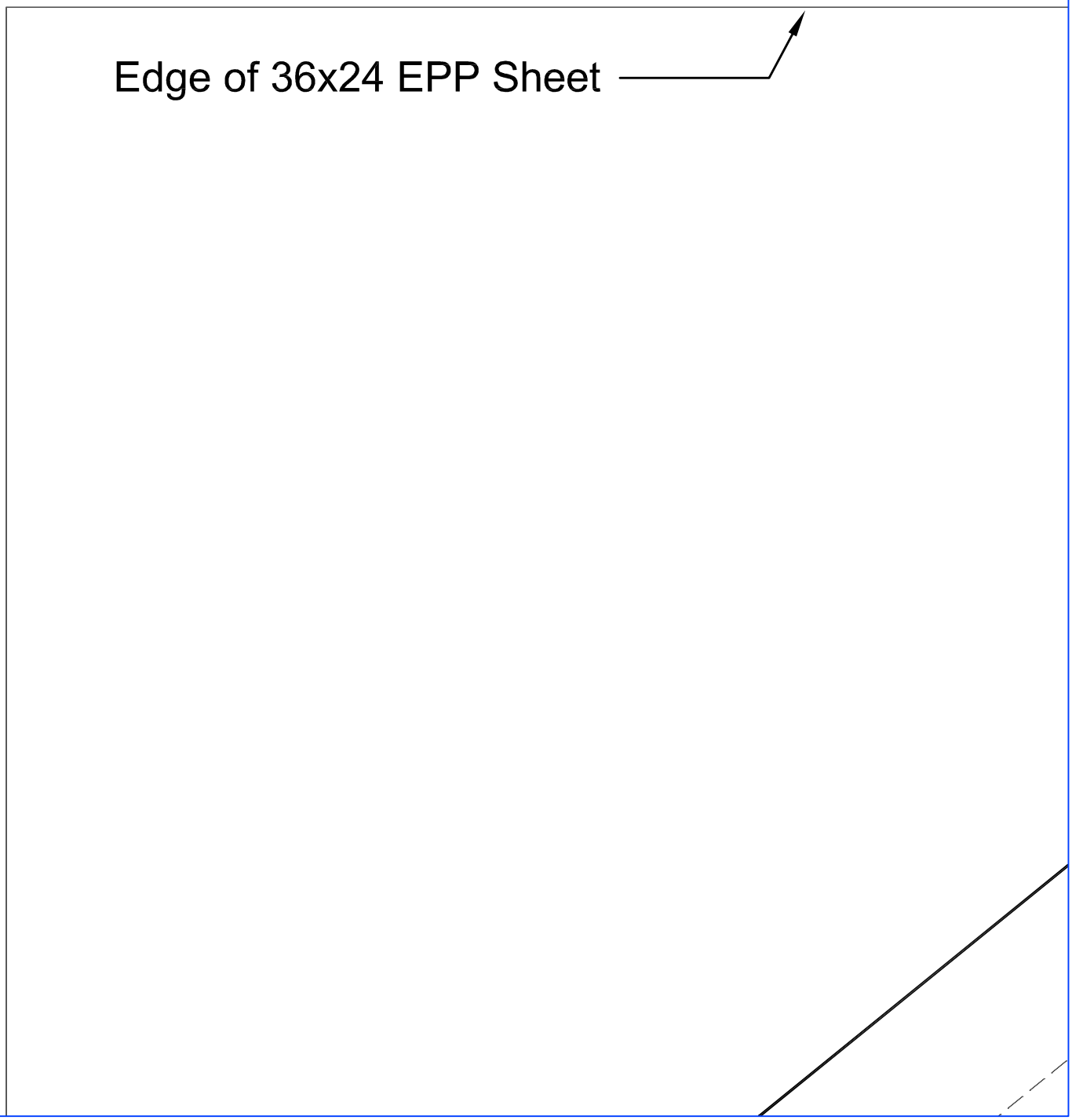
(Design by Jon McCarty - Mar. 2010 - Rev 1.0)

(CAD Drawing by Paul Petty - Apr. 2010)

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



P 1



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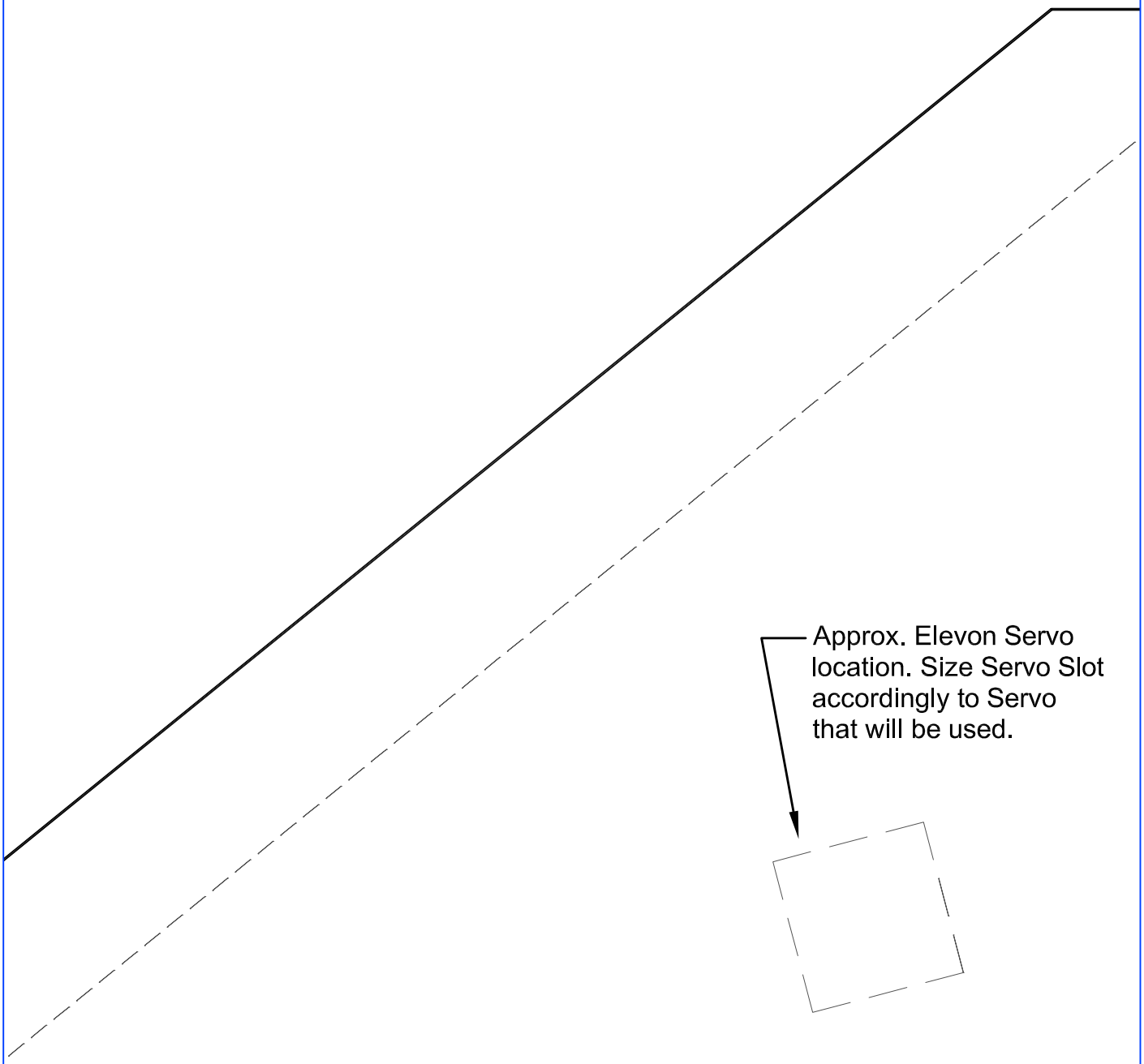
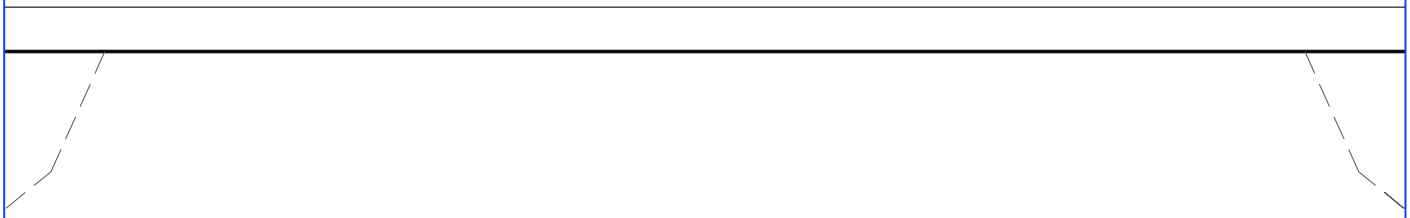
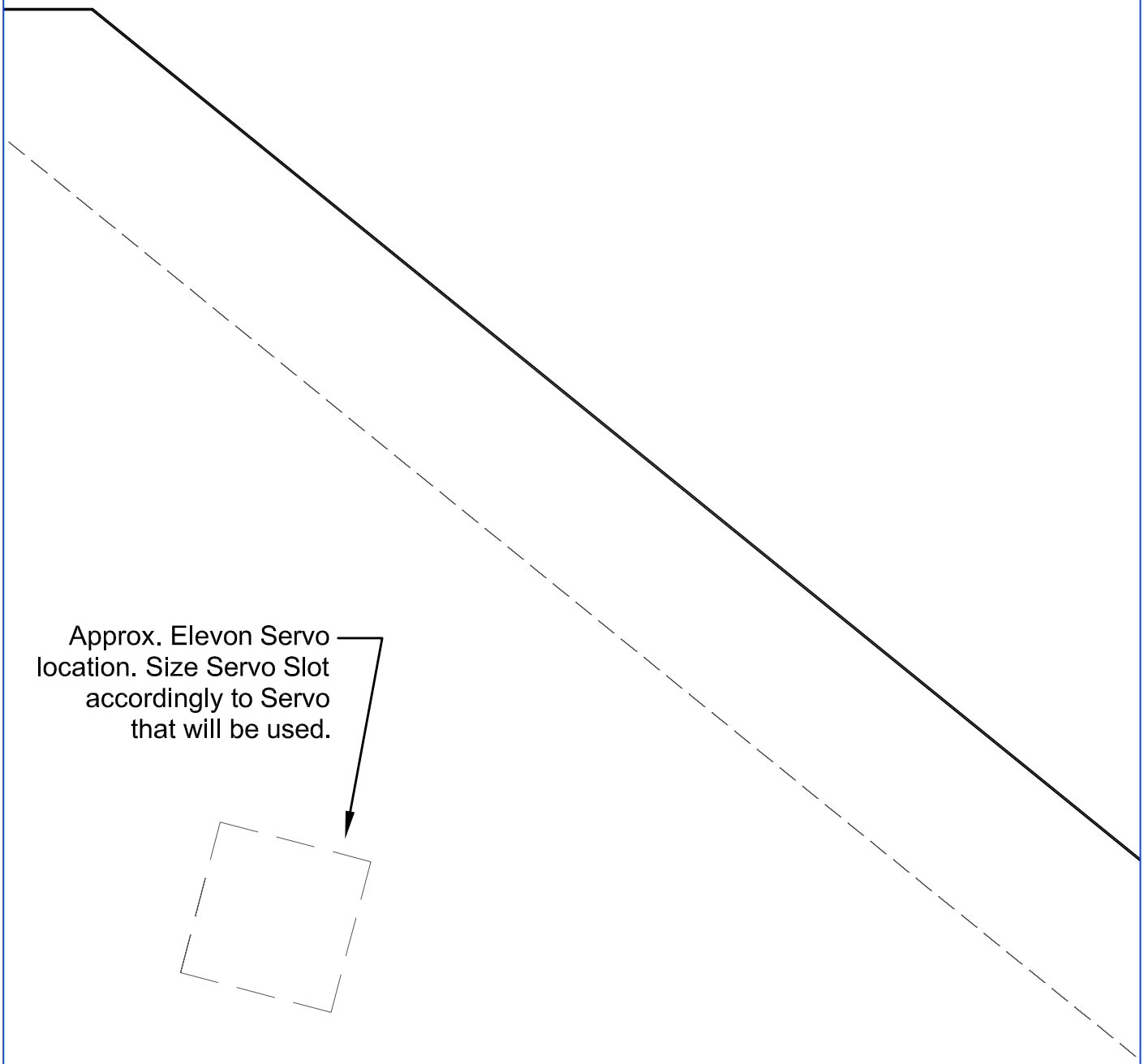

Approx. Elevon Servo location. Size Servo Slot accordingly to Servo that will be used.

P3

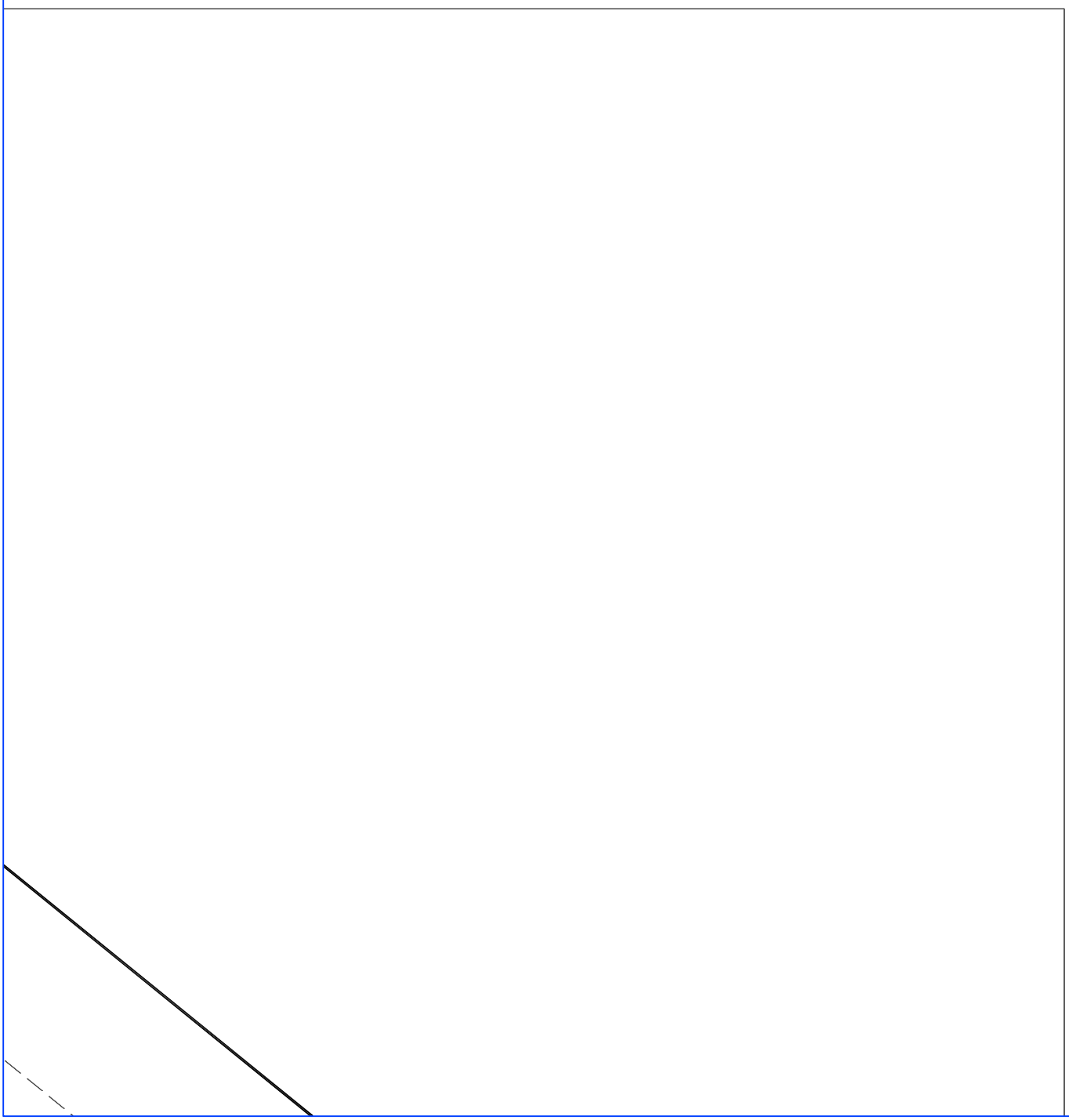


Main Wing Piece
(15mm EPP Foam)

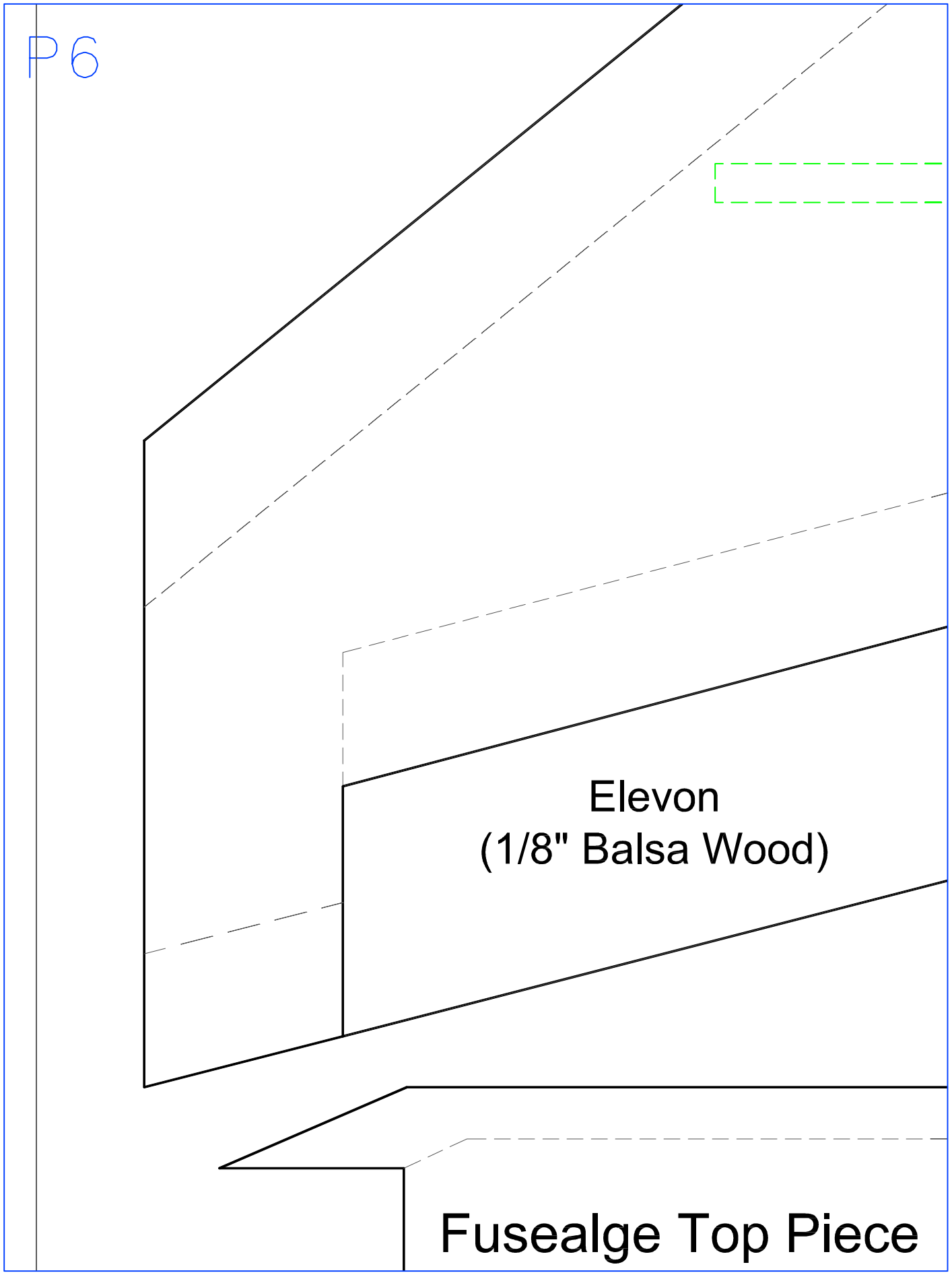
P 4


Approx. Elevon Servo location. Size Servo Slot accordingly to Servo that will be used.

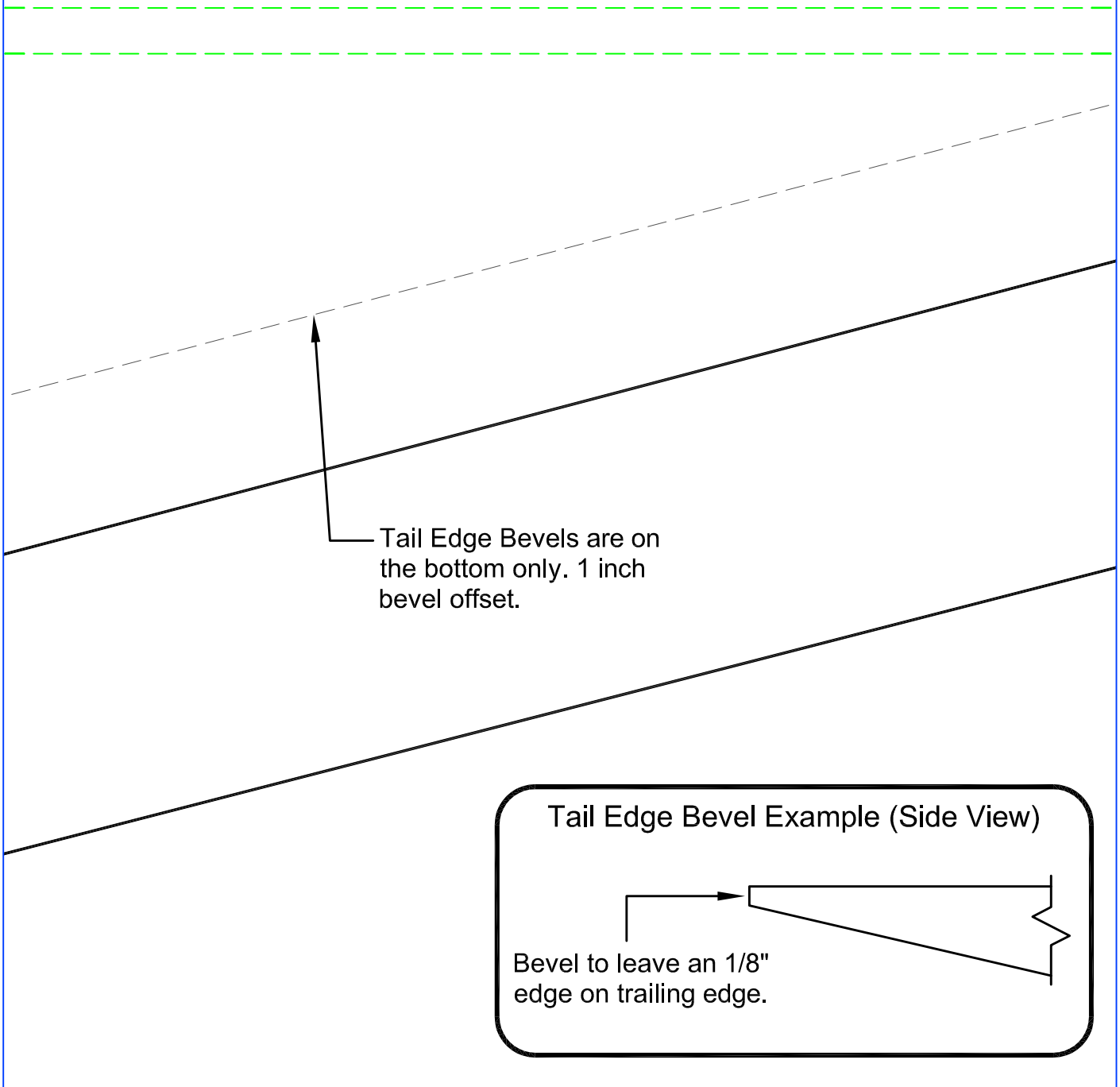
P5



P6



P7

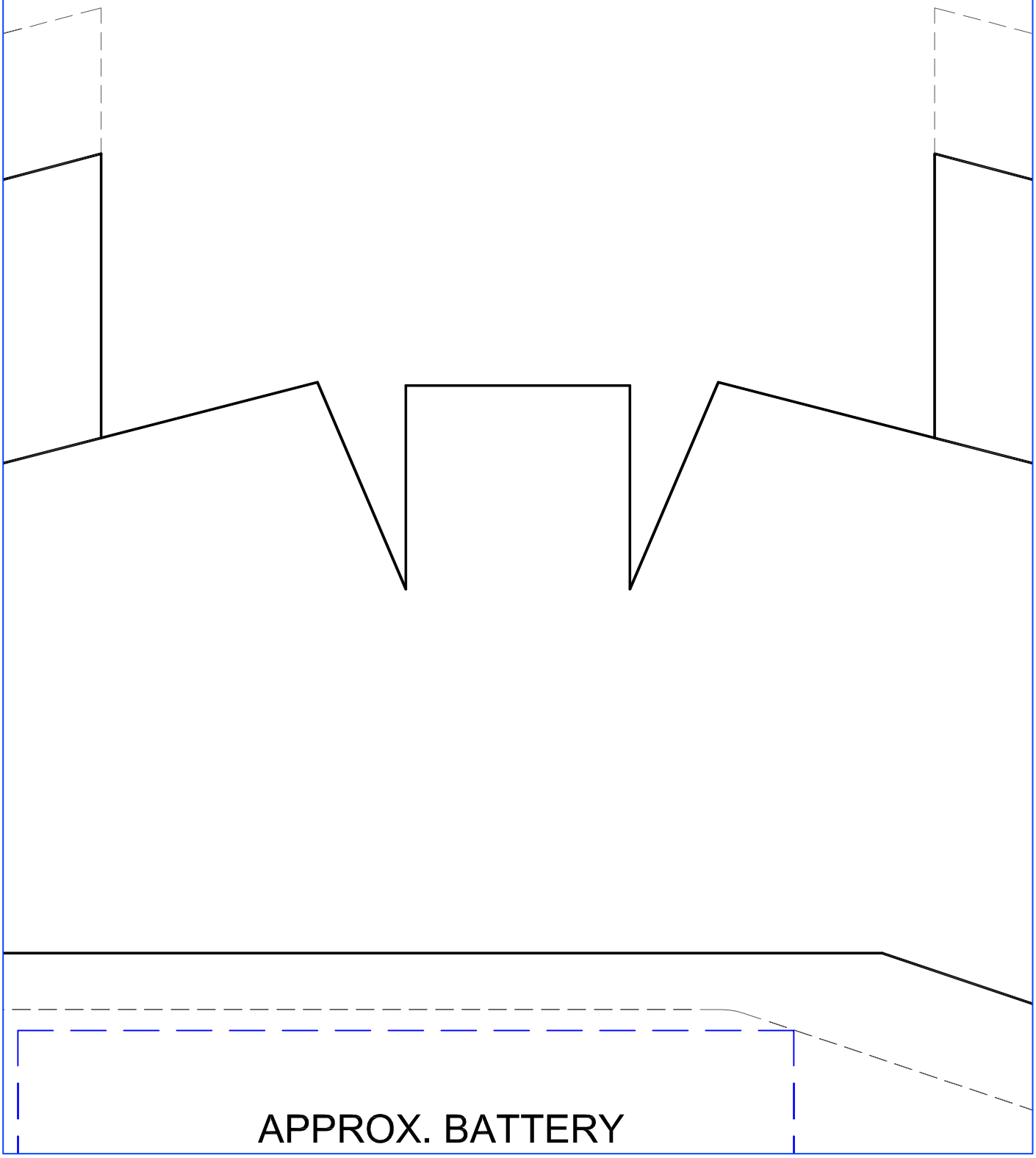


APPROX. ESC

APPROX. RX

P8

WING SPAR LOCATION FOR .25 CF TUBE



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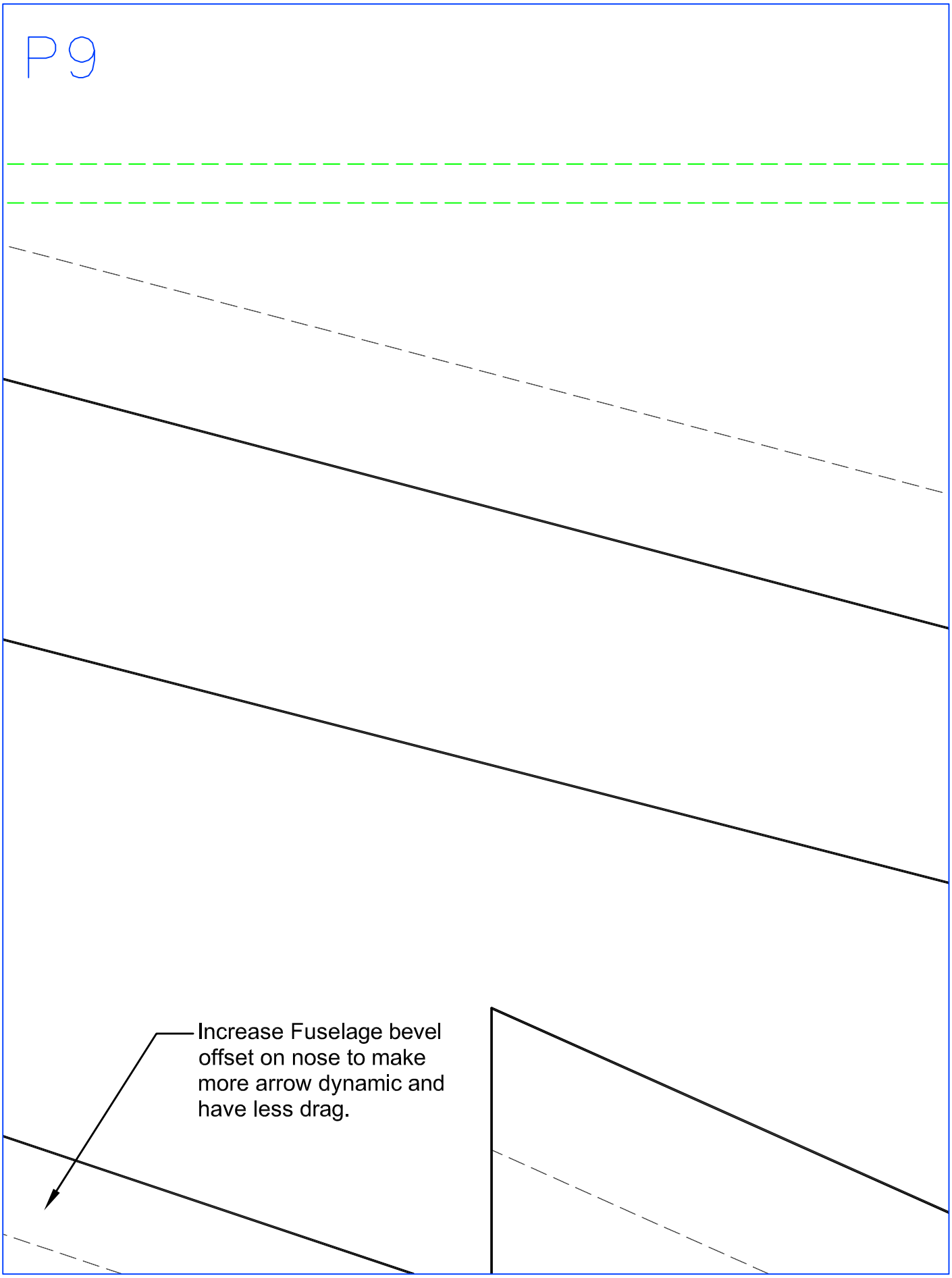
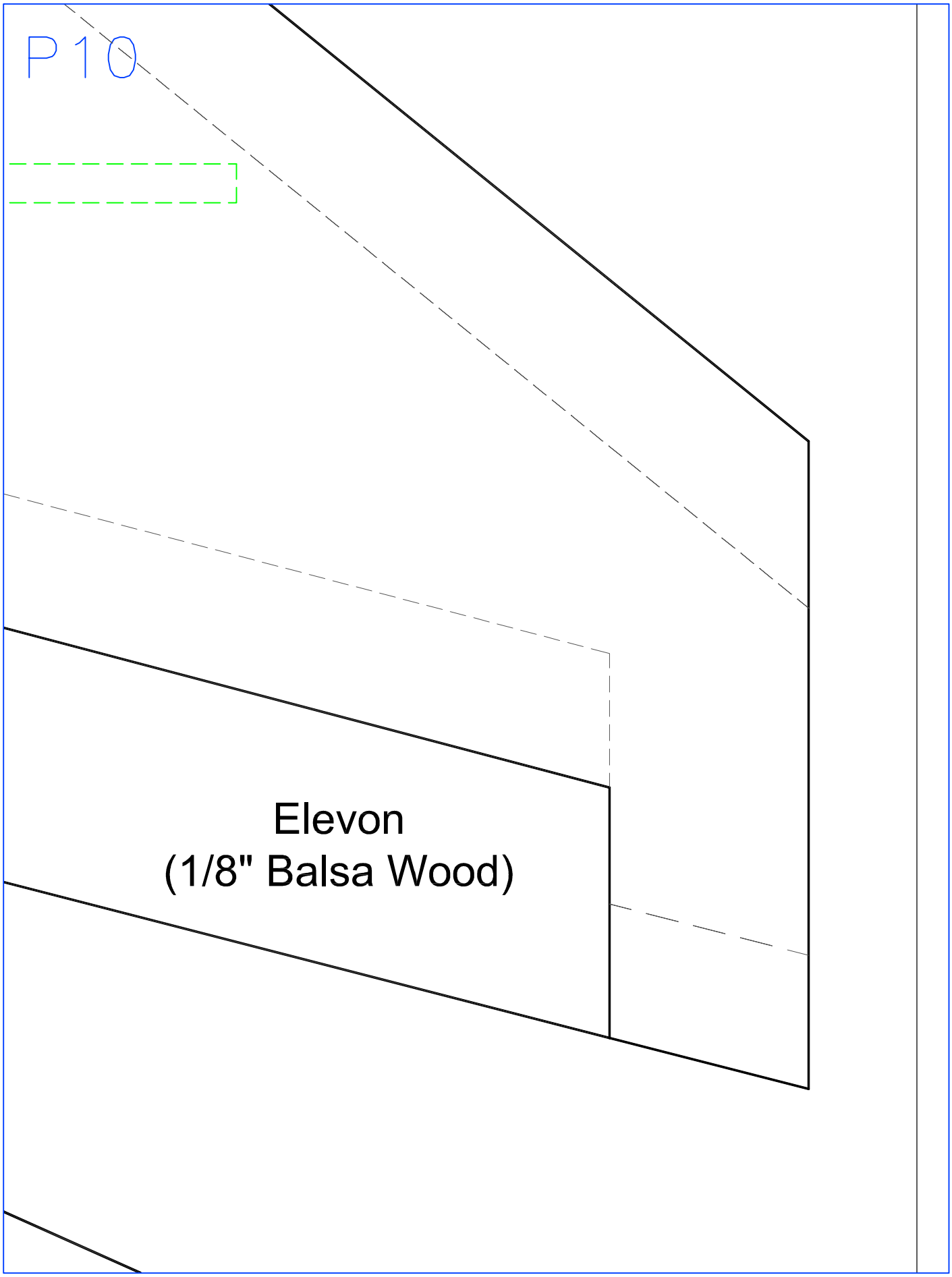
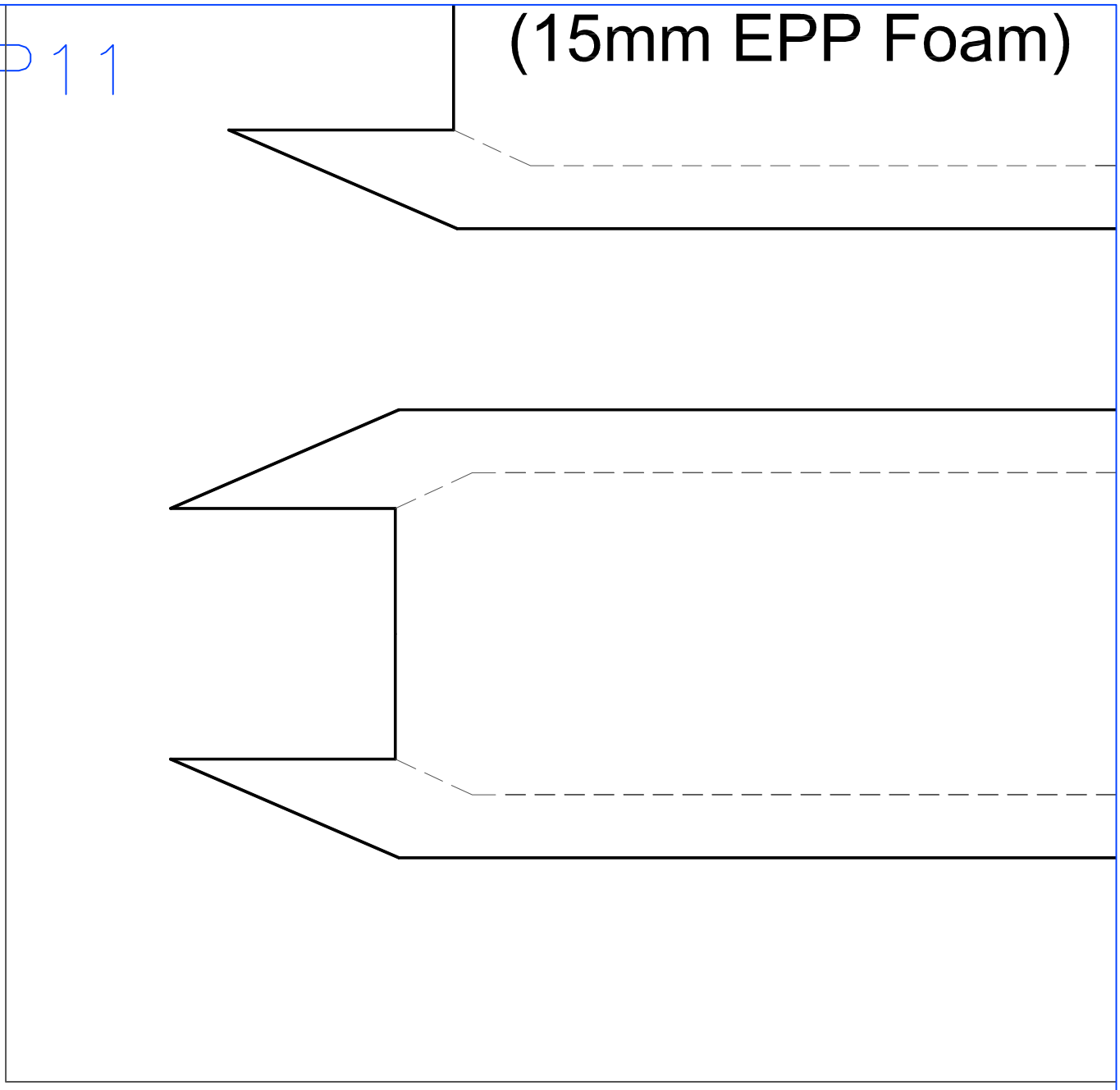

Increase Fuselage bevel offset on nose to make more arrow dynamic and have less drag.


P10
Elevon
(1/8" Balsa Wood)

P11

(15mm EPP Foam)

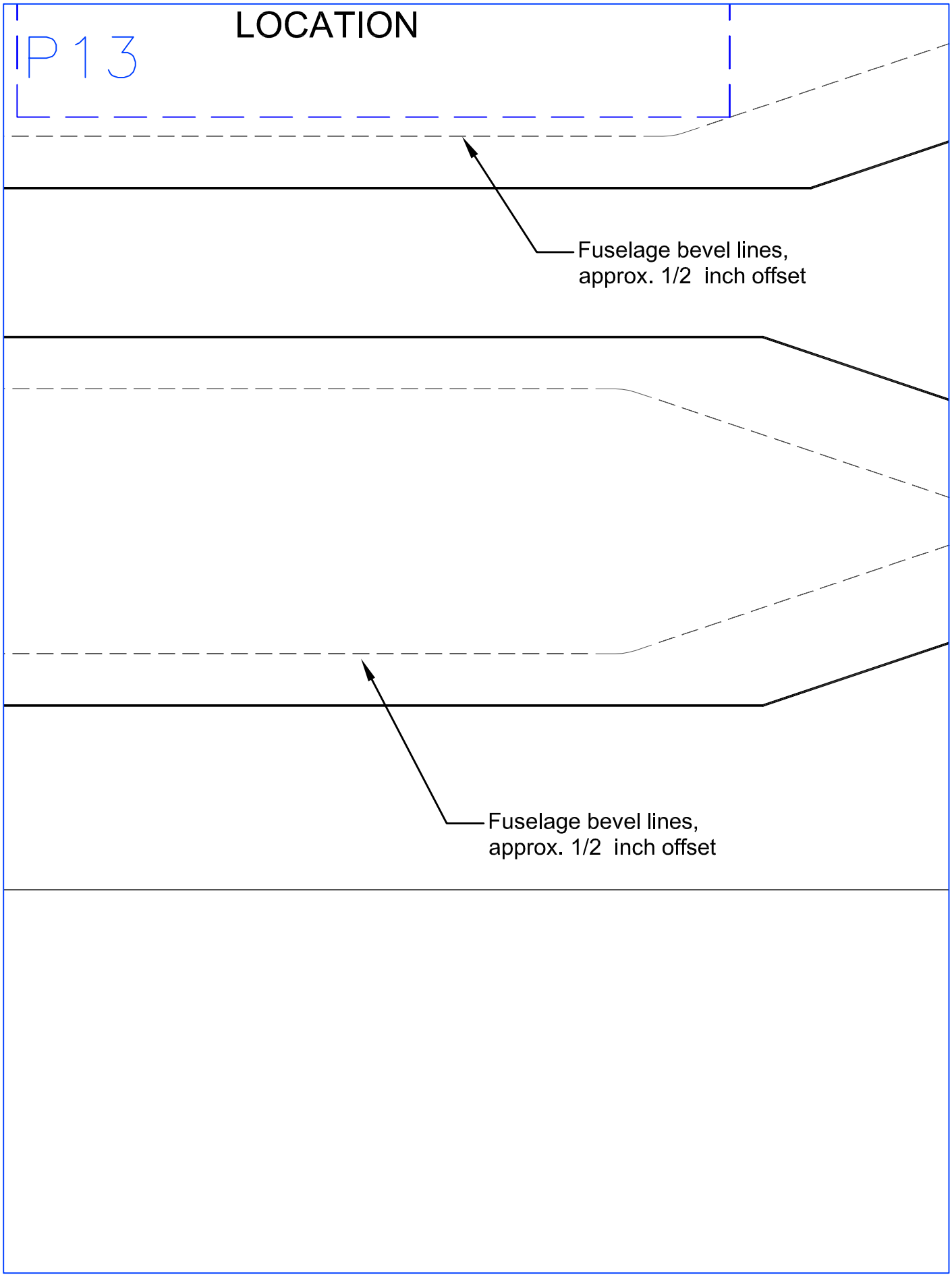


P 12

LOACTION

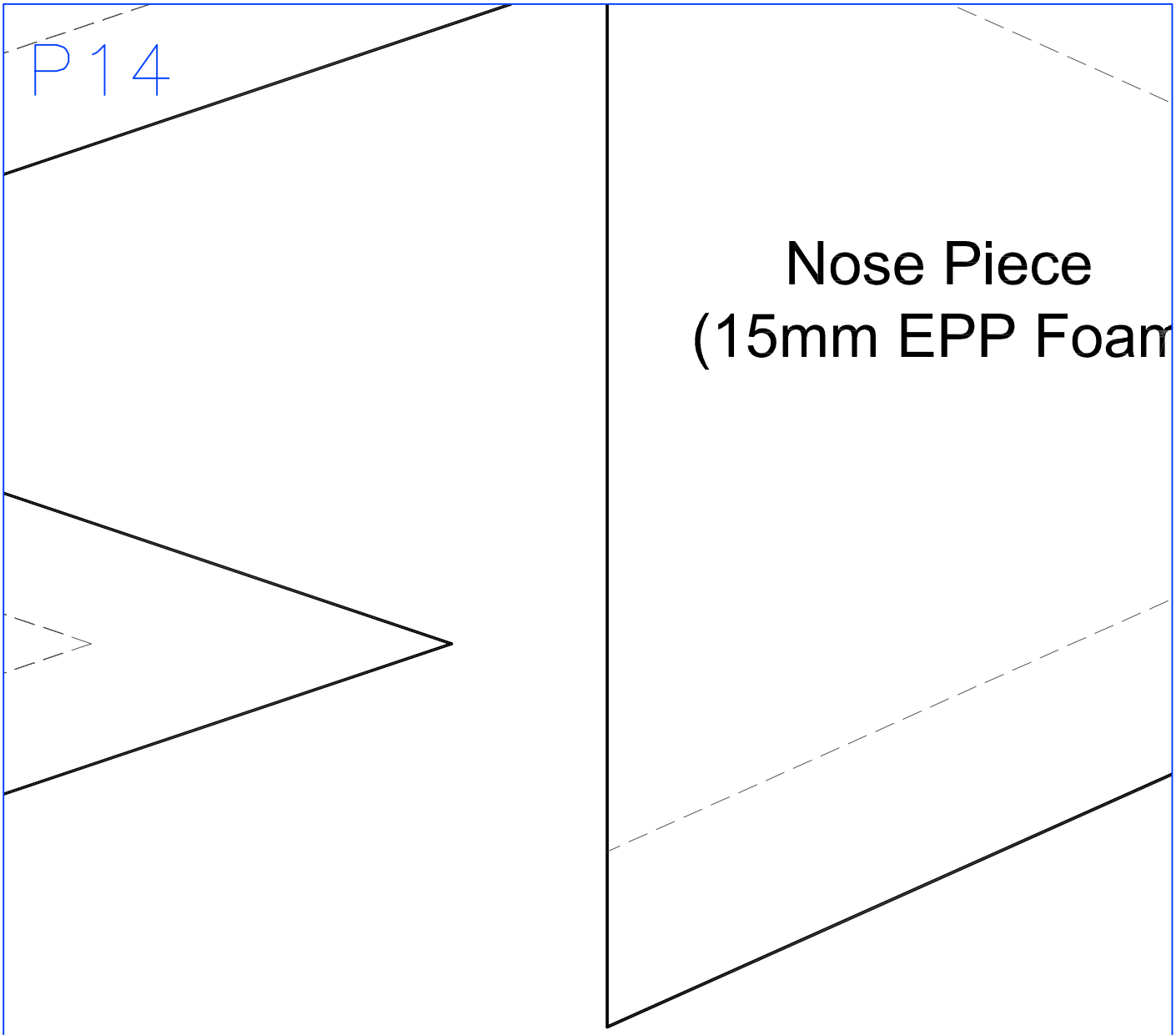
LOCATION

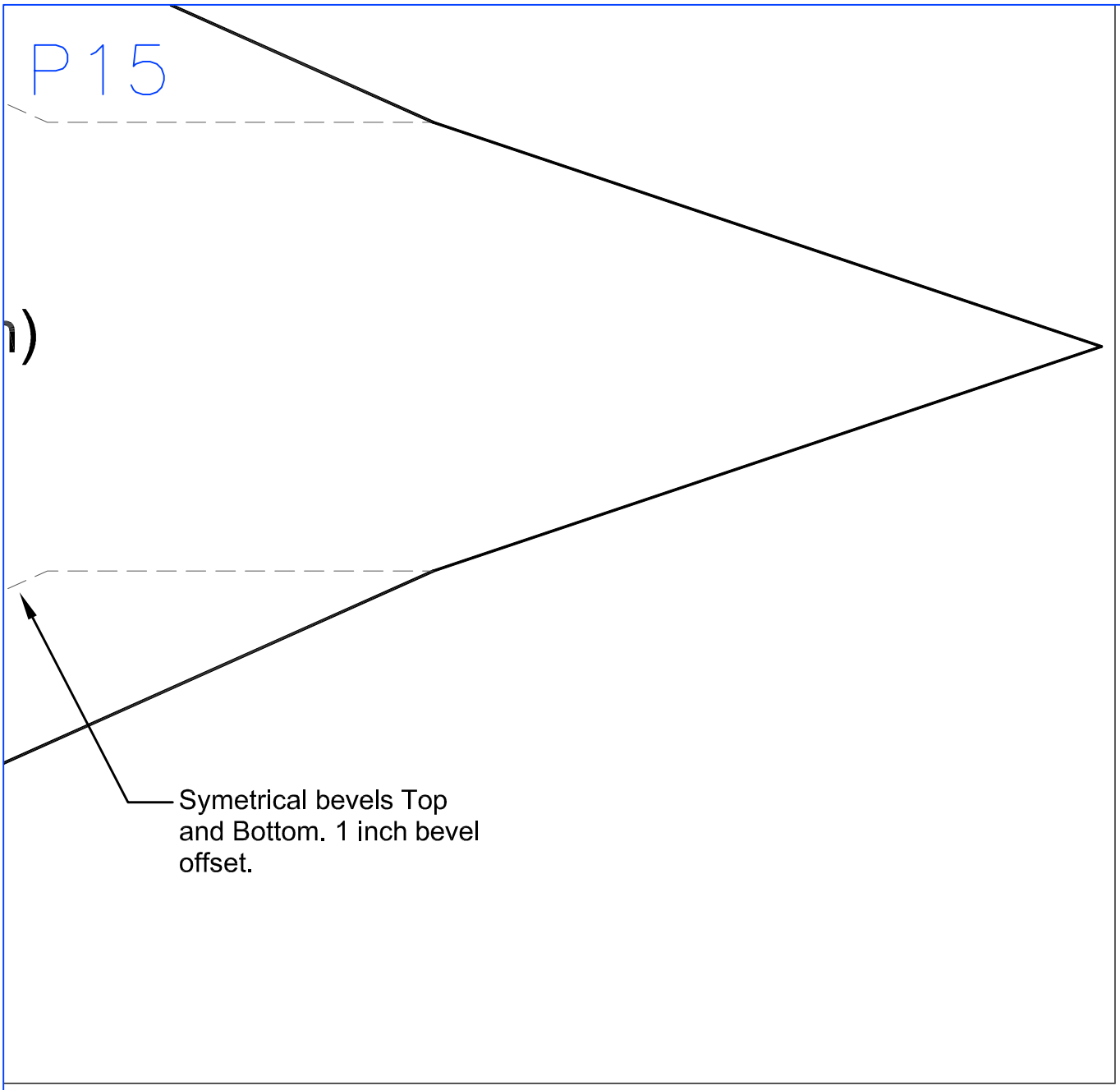
Fusealge Bottom Piece
(15mm EPP Foam)


LOCATION
P13
Fuselage bevel lines,
approx. 1/2 inch offset
Fuselage bevel lines,
approx. 1/2 inch offset

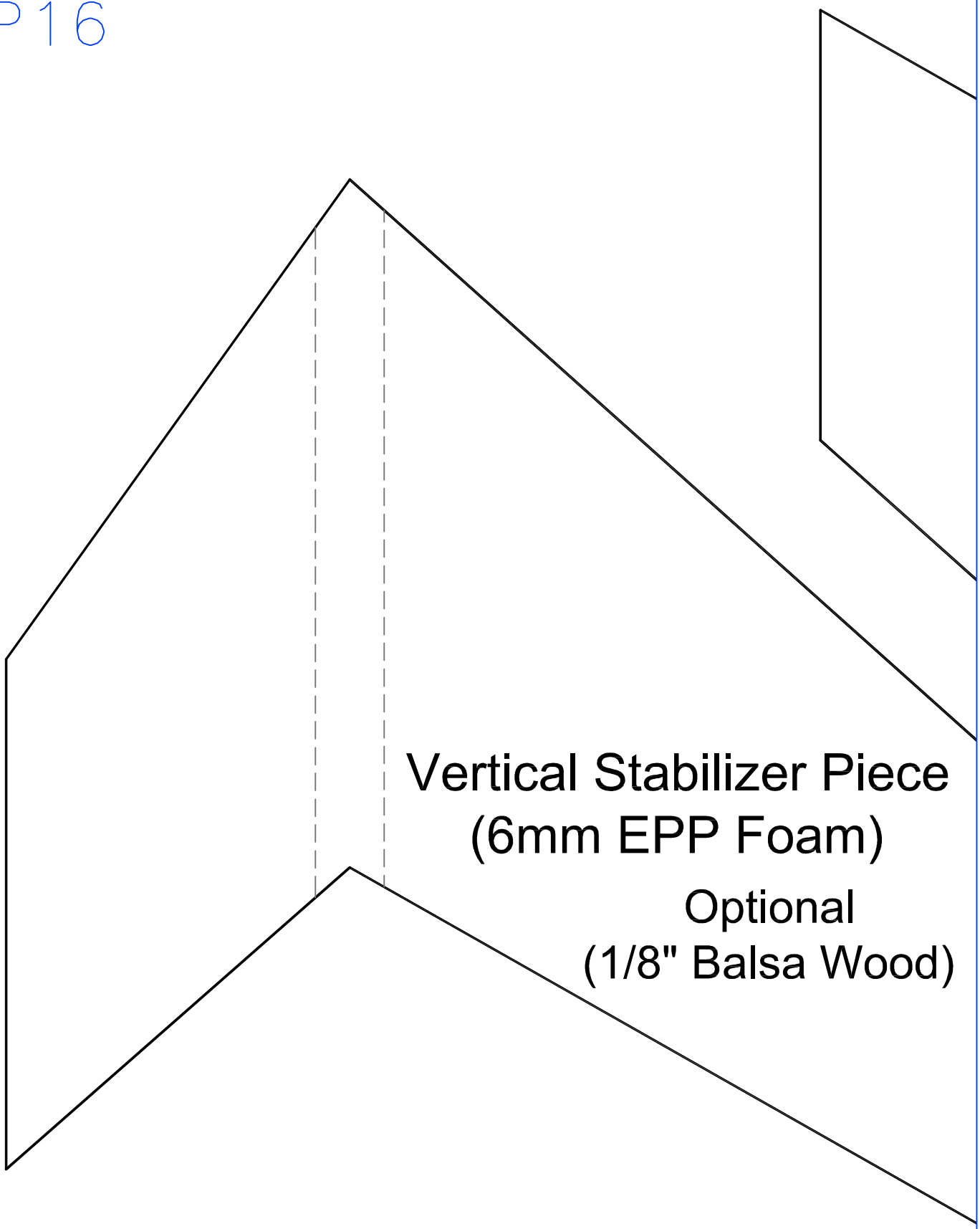
P14

Nose Piece
(15mm EPP Foam




P15
n)
Symetrical bevels Top
and Bottom. 1 inch bevel
offset.

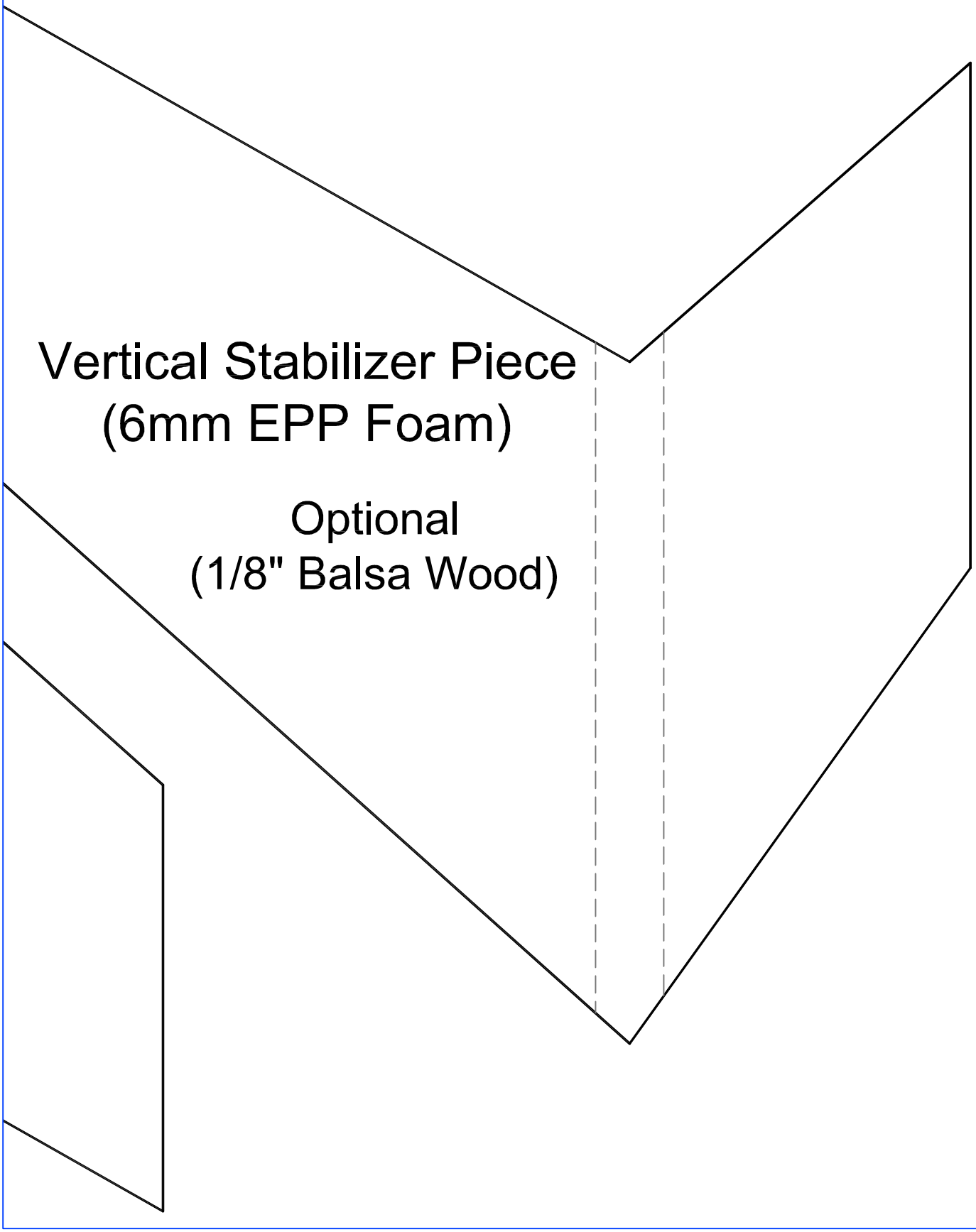
P16



Vertical Stabilizer Piece
(6mm EPP Foam)

Optional
(1/8" Balsa Wood)

P17


Vertical Stabilizer Piece
(6mm EPP Foam)
Optional
(1/8" Balsa Wood)