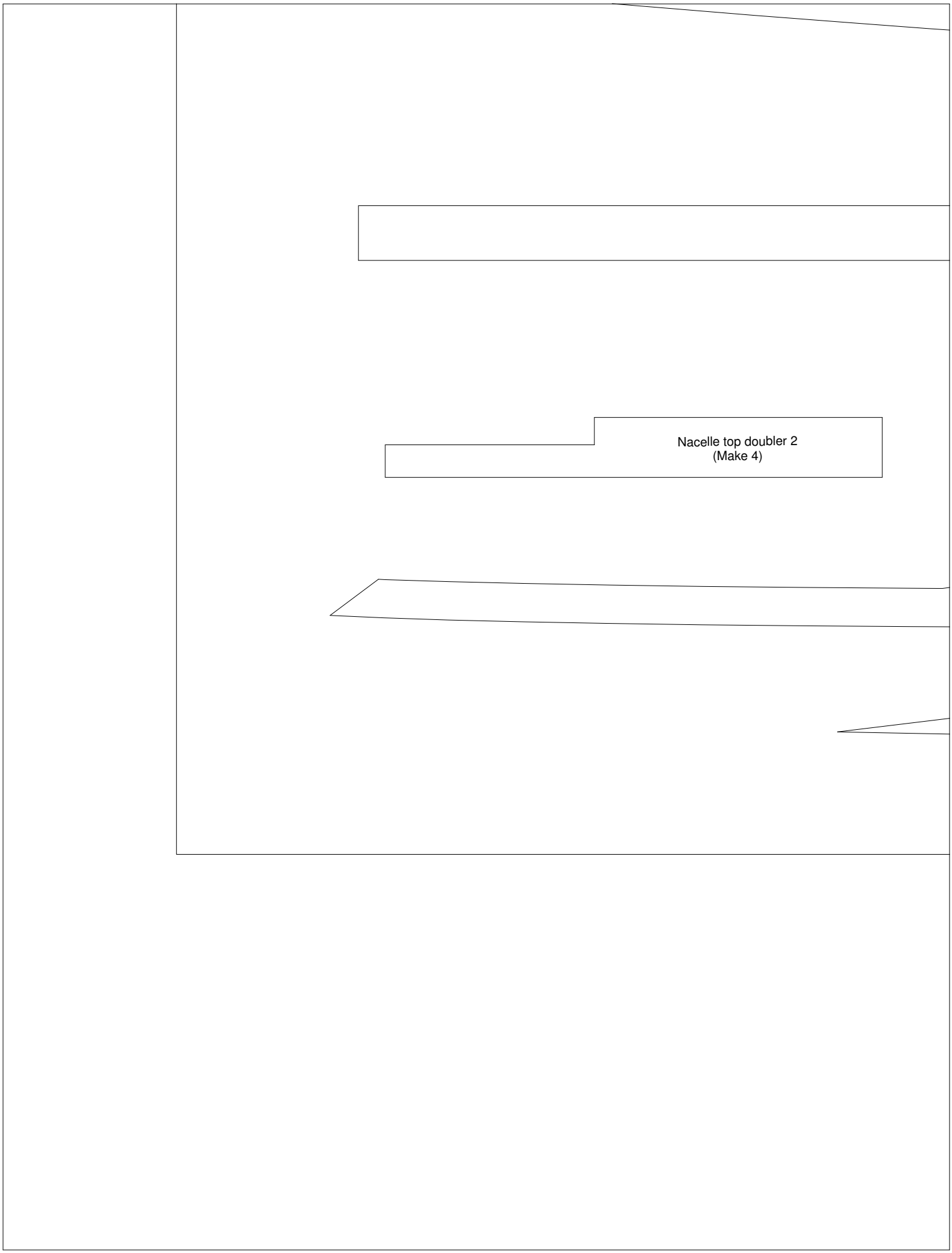
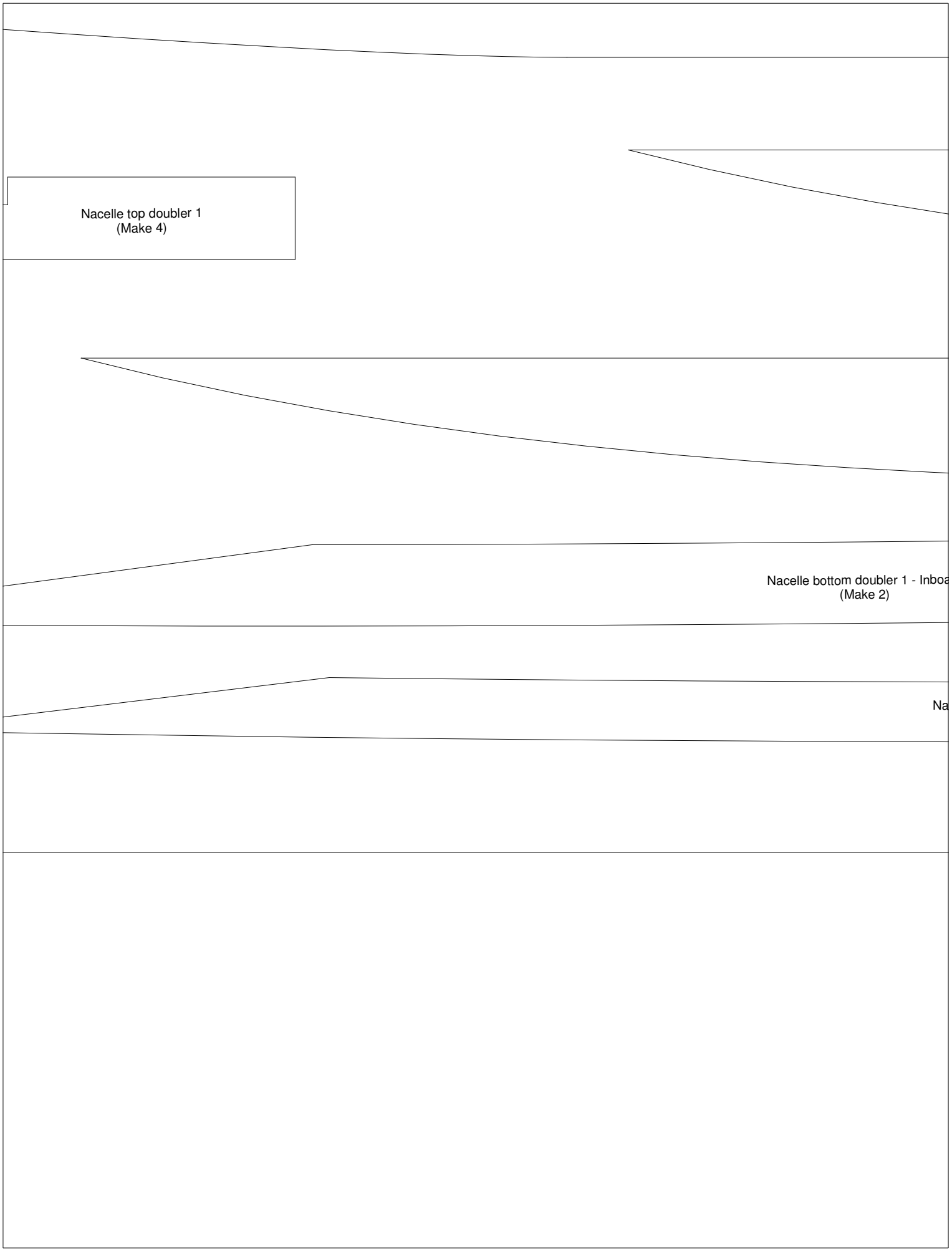
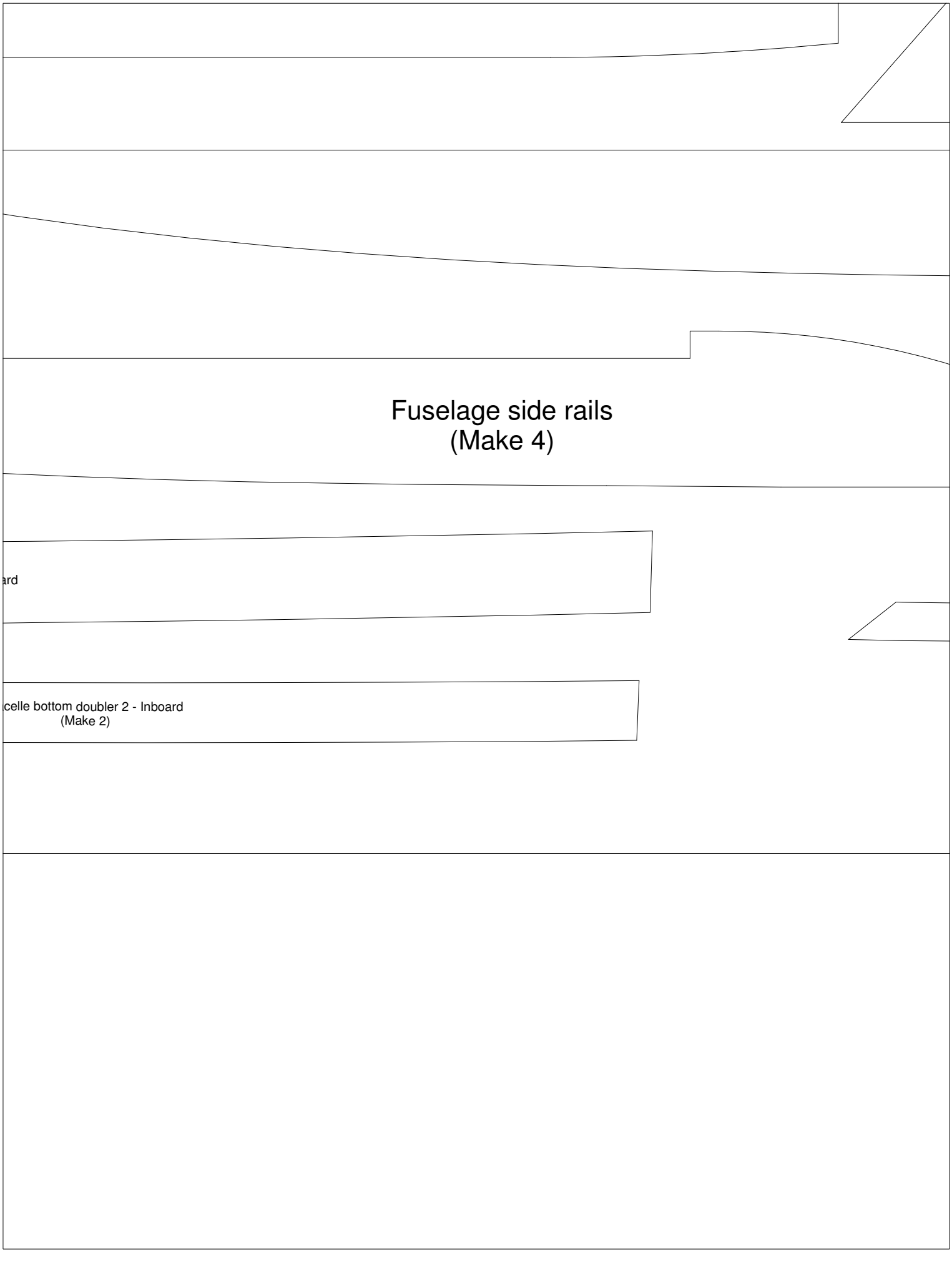
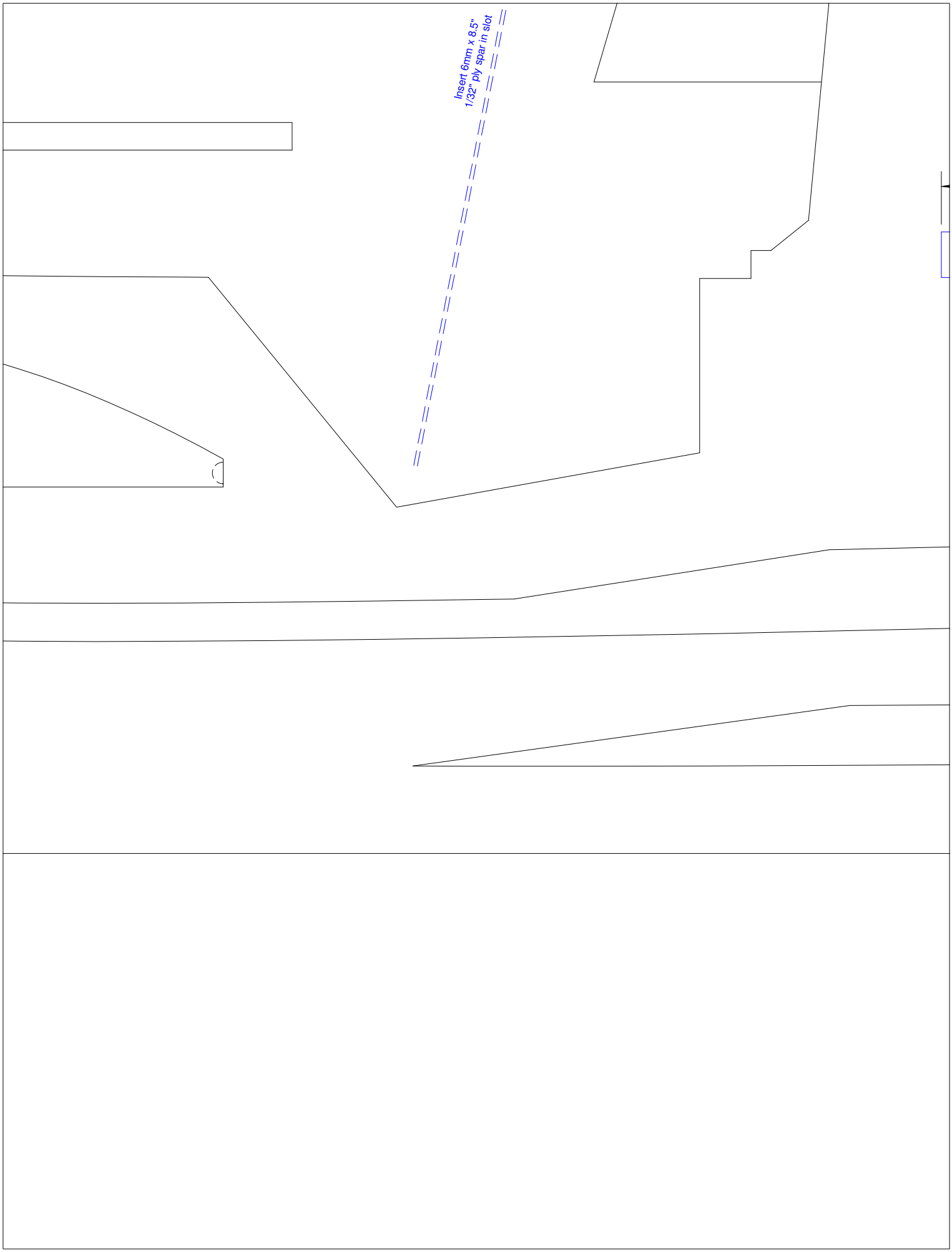
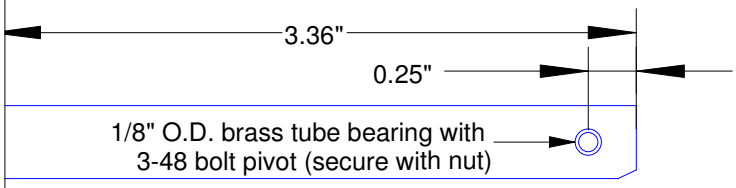

Nacelle top doubler 2
(Make 4)


Nacelle top doubler 1
(Make 4)
Nacelle bottom doubler 1 - Inboa
(Make 2)
Na

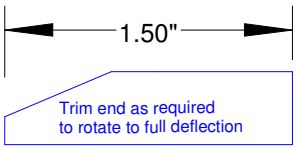

Fuselage side rails
(Make 4)
ard
celle bottom doubler 2 - Inboard
(Make 2)


Insert 6mm x 8.5"
1/32" ply spar in slot

Side plates for thrust
vectoring motor mount
(Make 2 each from 1/8" ply)



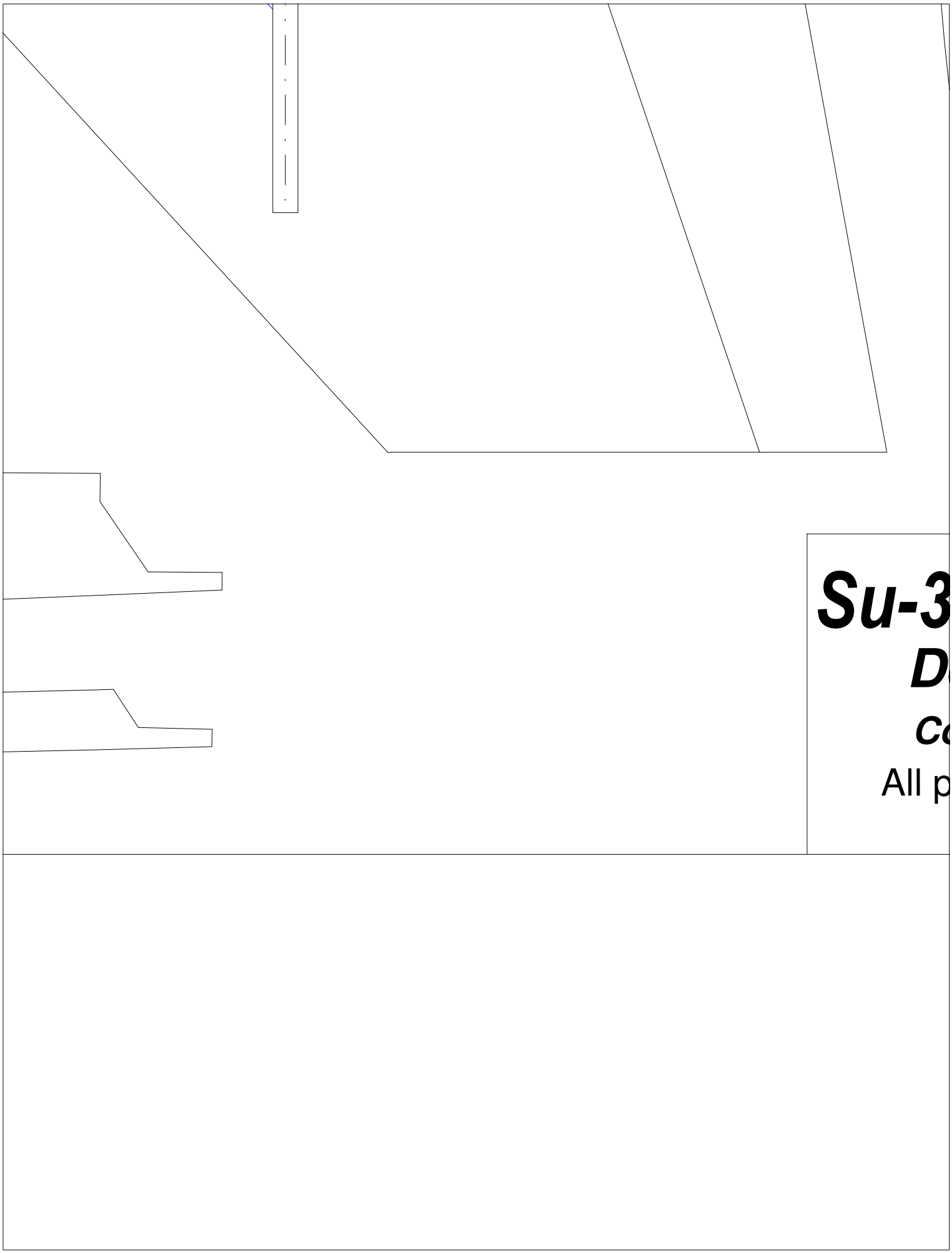

Main motor mount stick
(3/8" sq hardwood)

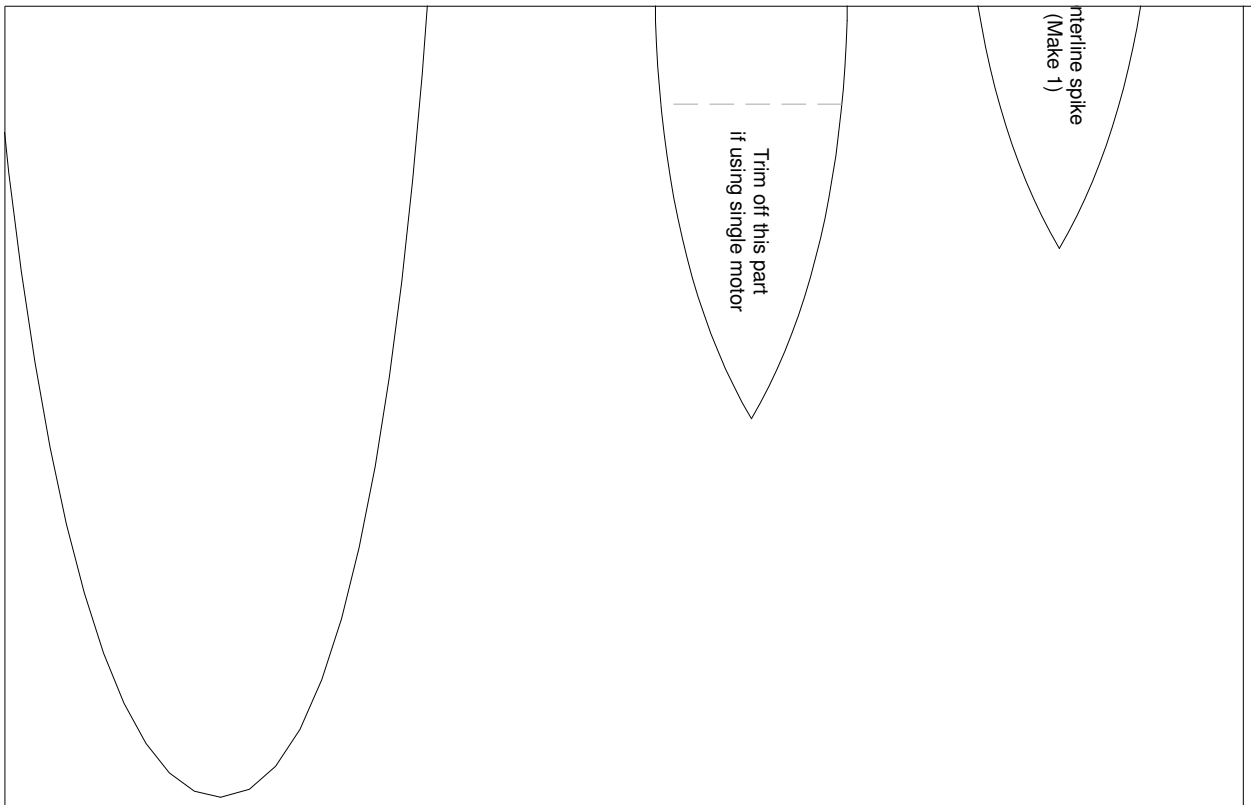



Movable portion of
motor mount stick
(3/8" sq hardwood)

Nacelle bottom doubler 1 - Outboard
(Make 2)

Nacelle bottom doubler 2 - Outboard
(Make 2)


Su-3
D
Co
All p




# 37 Super Flanker Park Jet

## Designed by Steve Shumate

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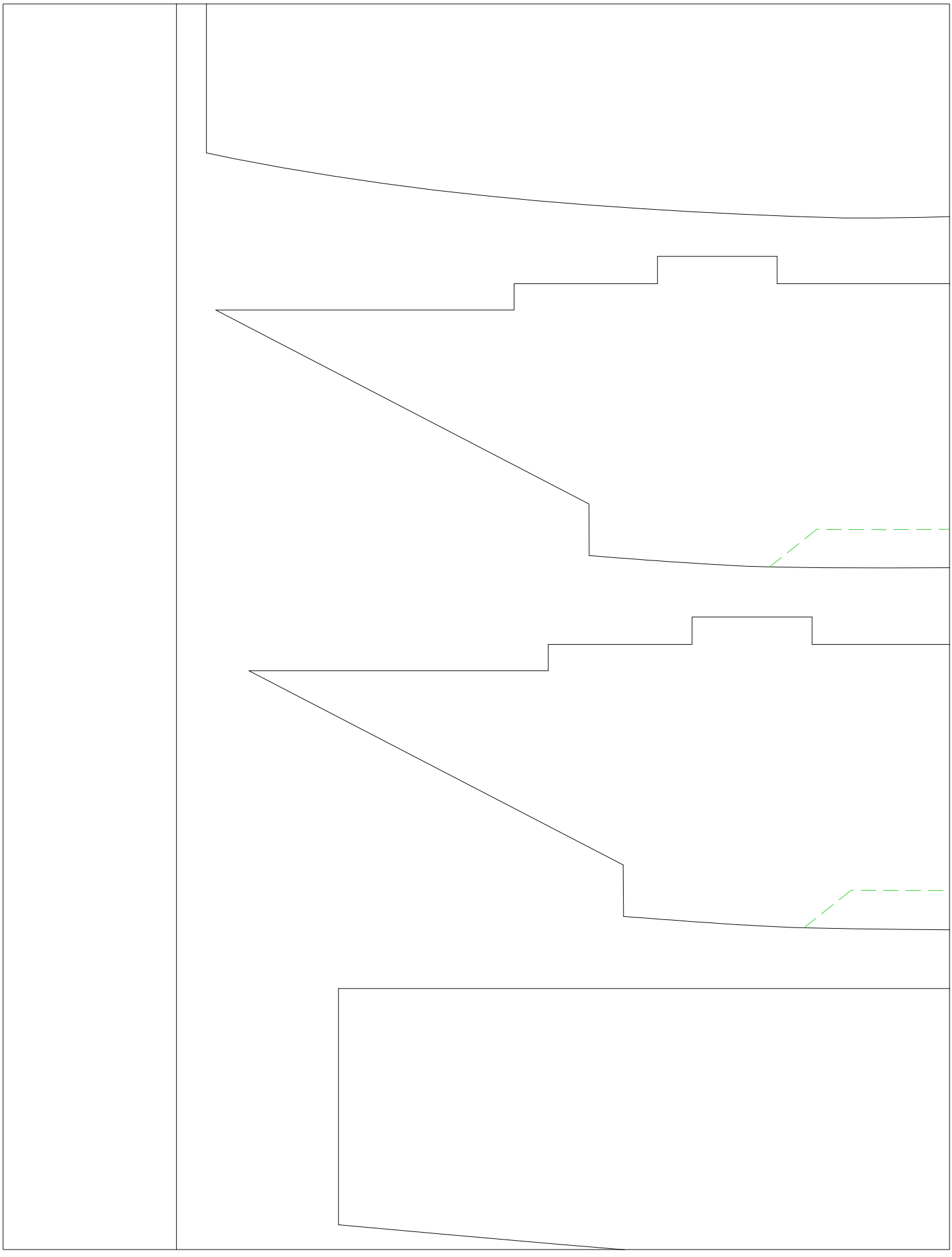
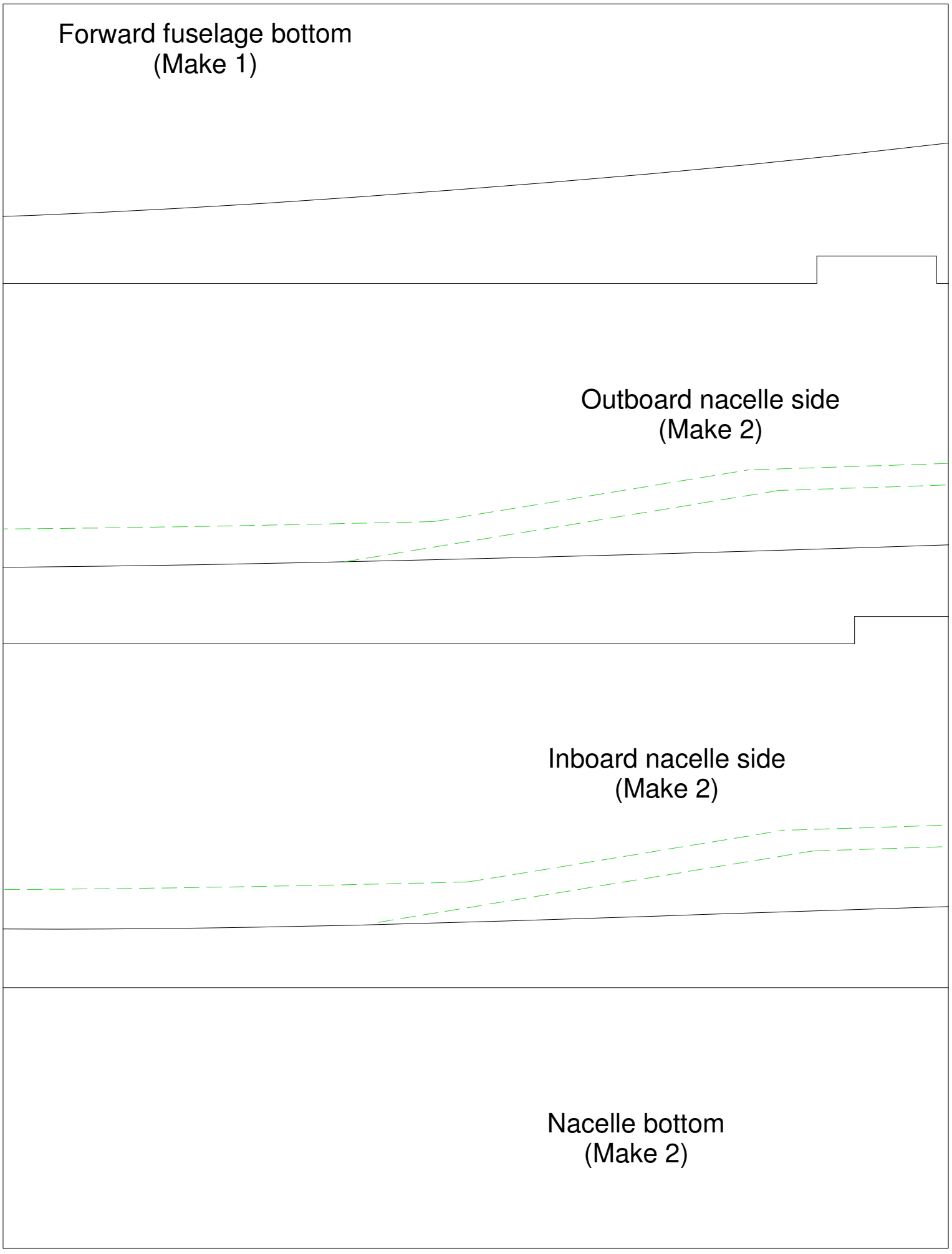
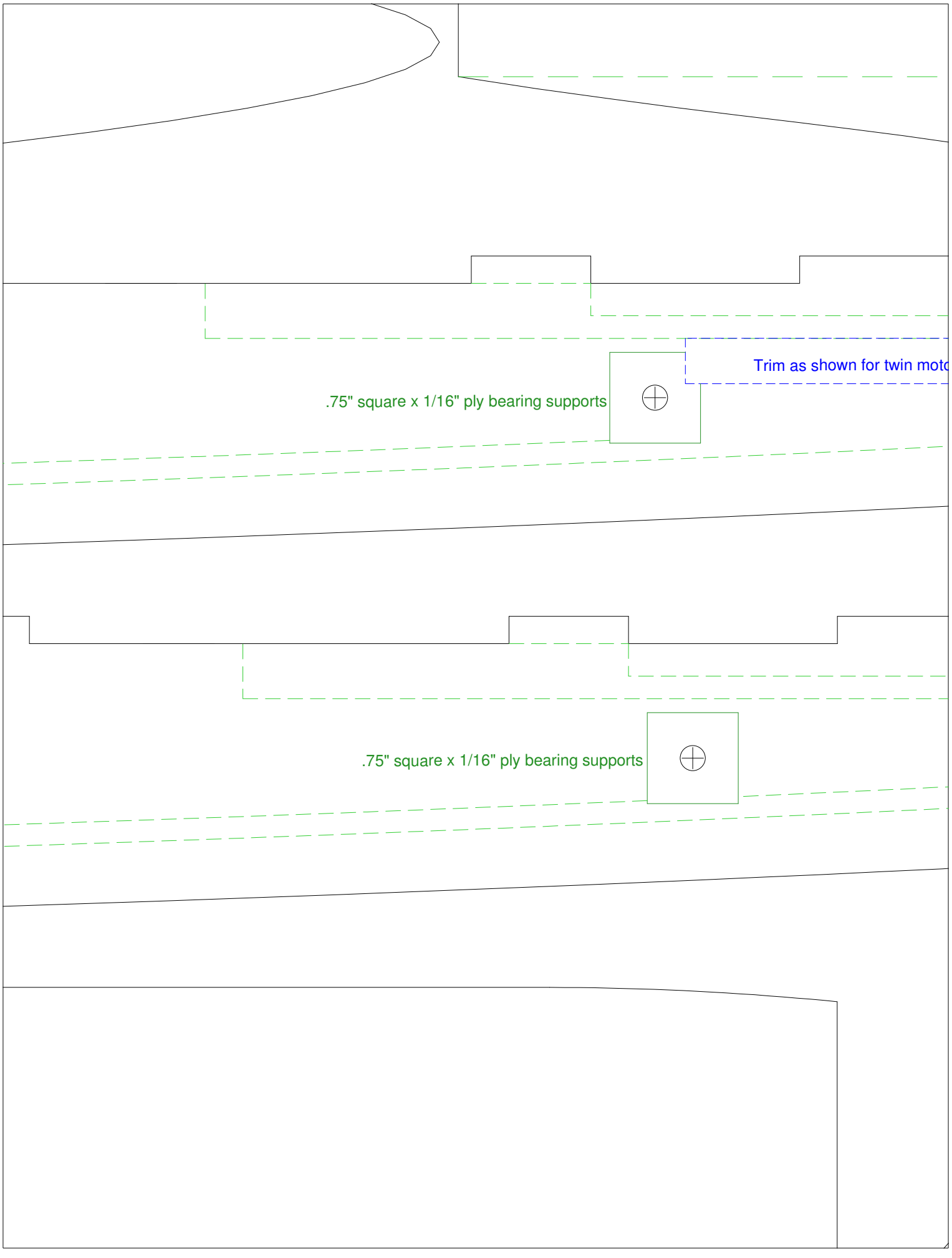
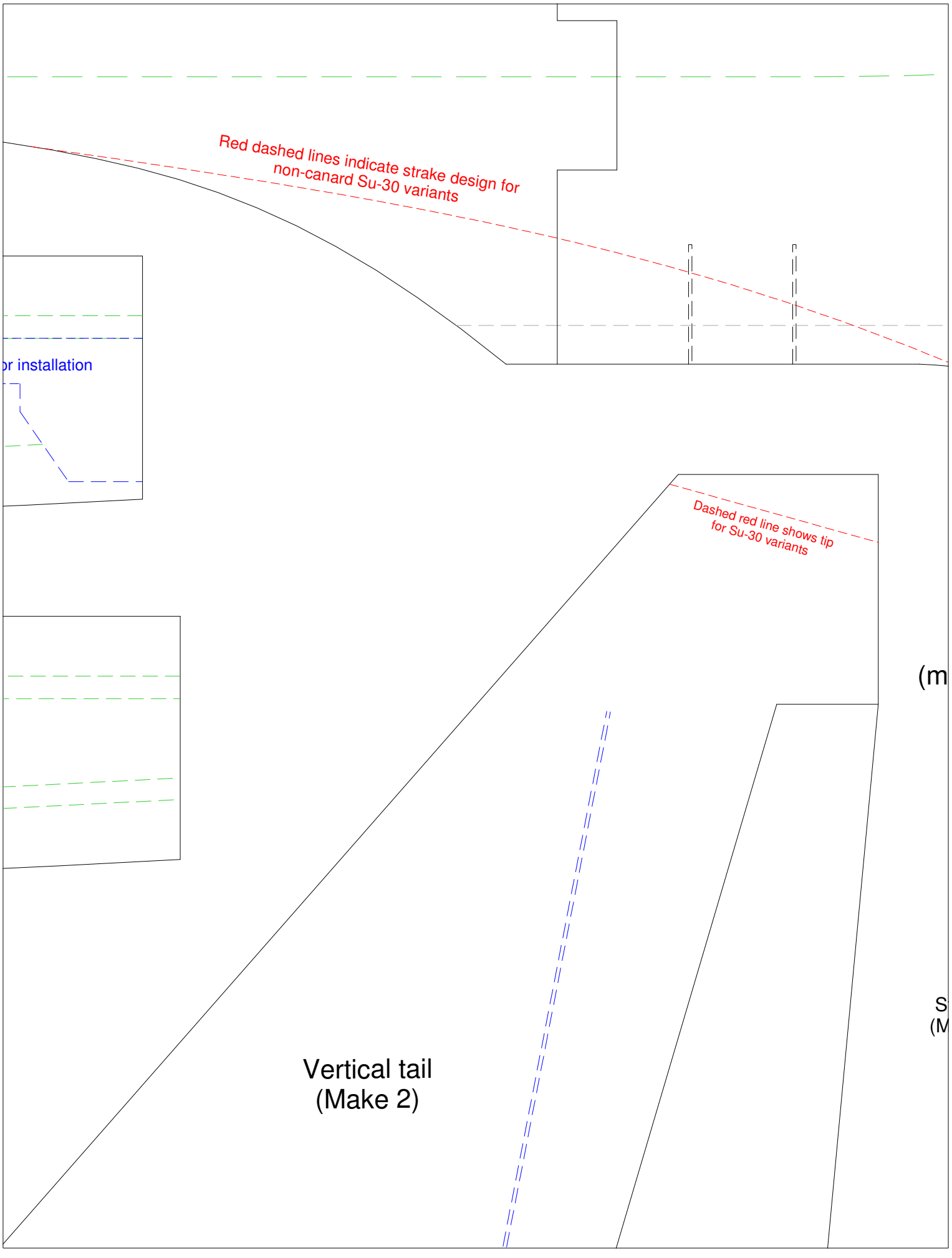
Parts made from 6mm Depron or BlueCore foam unless otherwise specified



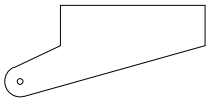

Forward fuselage bottom
(Make 1)
Outboard nacelle side
(Make 2)
Inboard nacelle side
(Make 2)
Nacelle bottom
(Make 2)


Trim as shown for twin moto
.75" square x 1/16" ply bearing supports
.75" square x 1/16" ply bearing supports

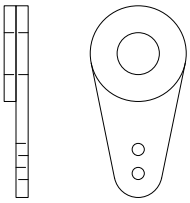

Red dashed lines indicate strake design for non-canard Su-30 variants
or installation
Dashed red line shows tip for Su-30 variants
(m
S
(M
Vertical tail
(Make 2)

Insert 6mm x 1.1.5"
1/32" ply spar in slot
for extra strength (opt)

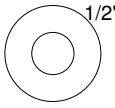
Rudder control horns
ake 2 from 1/32" plywood)



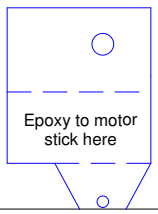
Glue one doubler to
control horn as shown

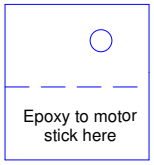


tabilator control horn
lake 2 from 1/16" ply)

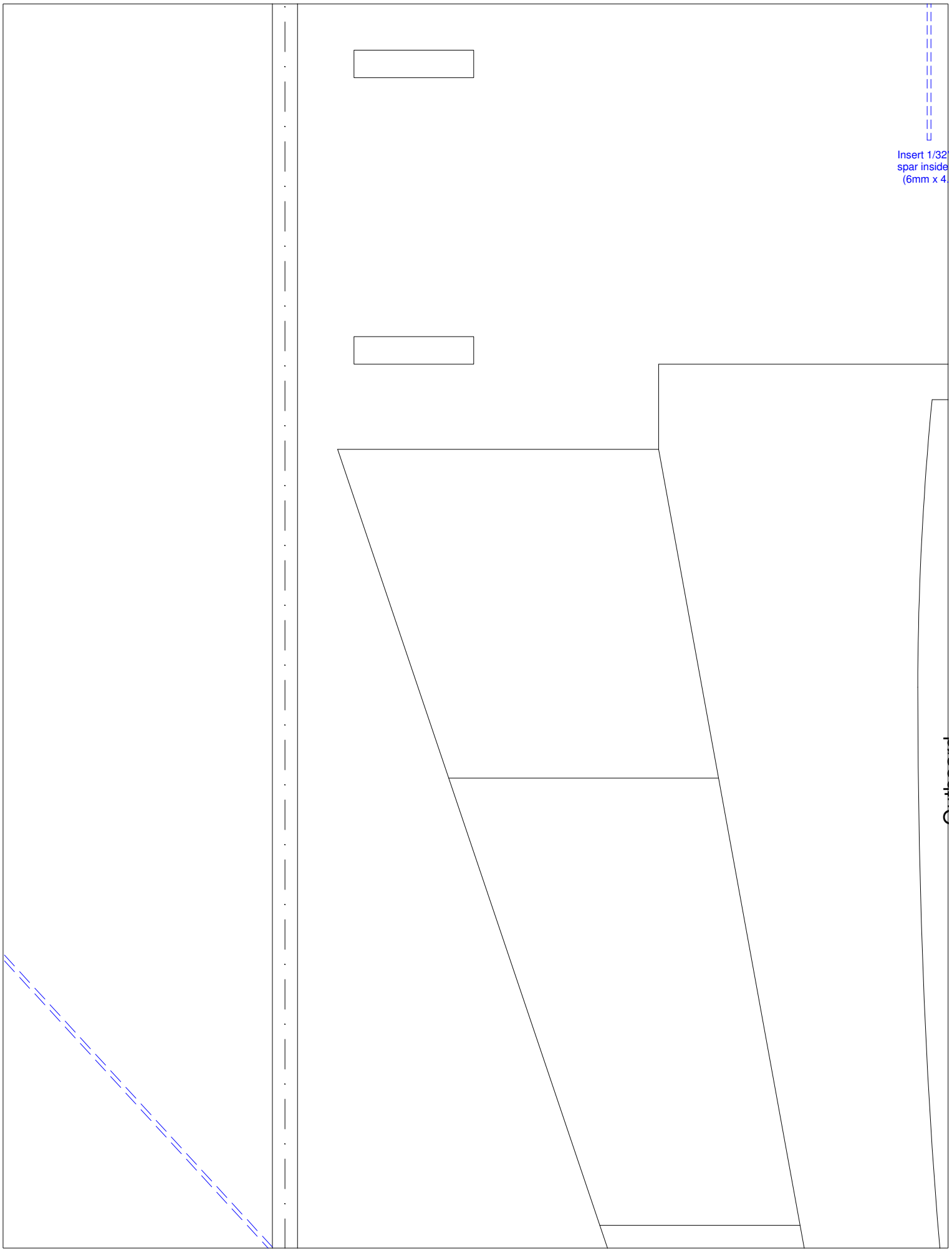


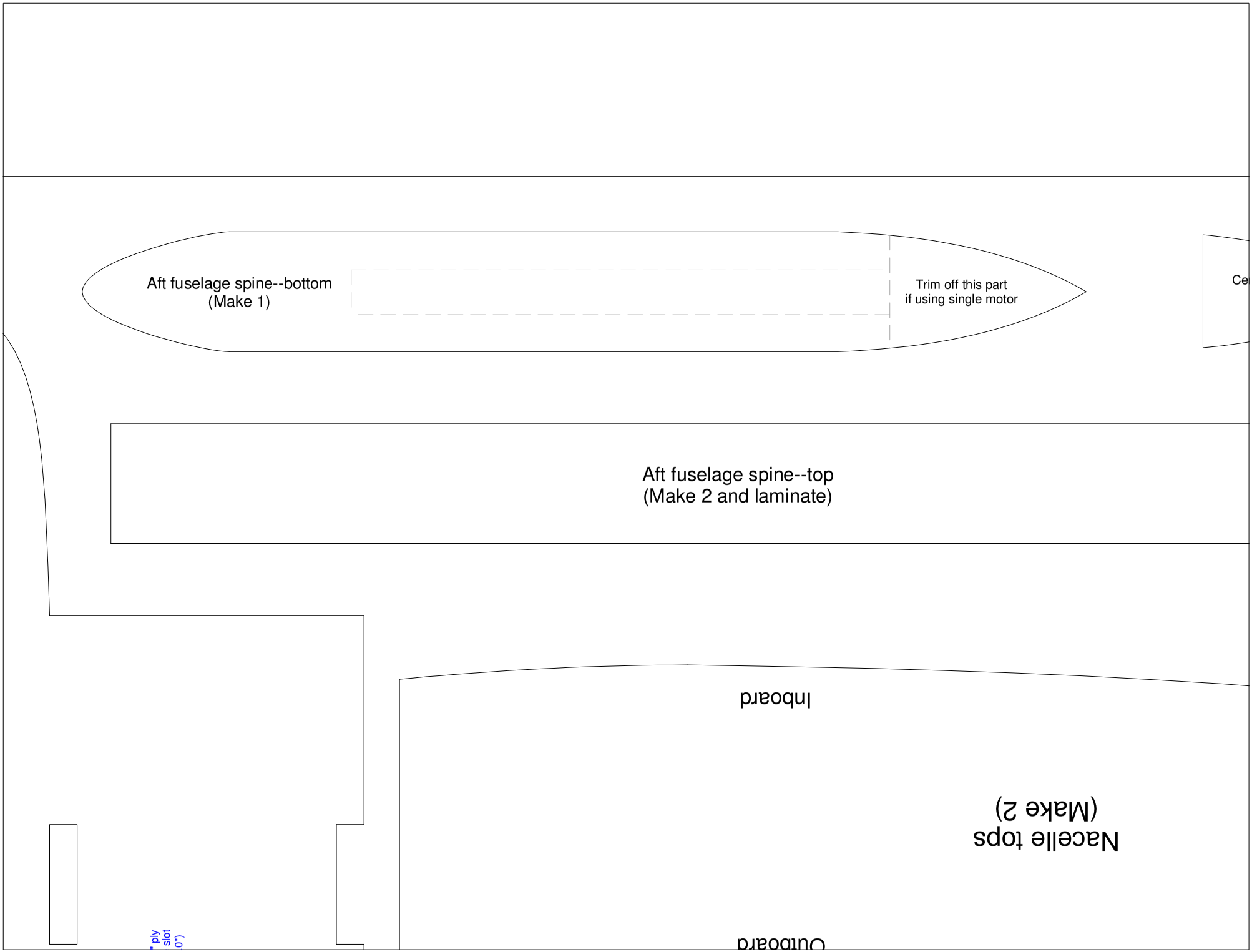

Stabilator control horn
doublers/end stops
(Make 6 from 1/16" ply)

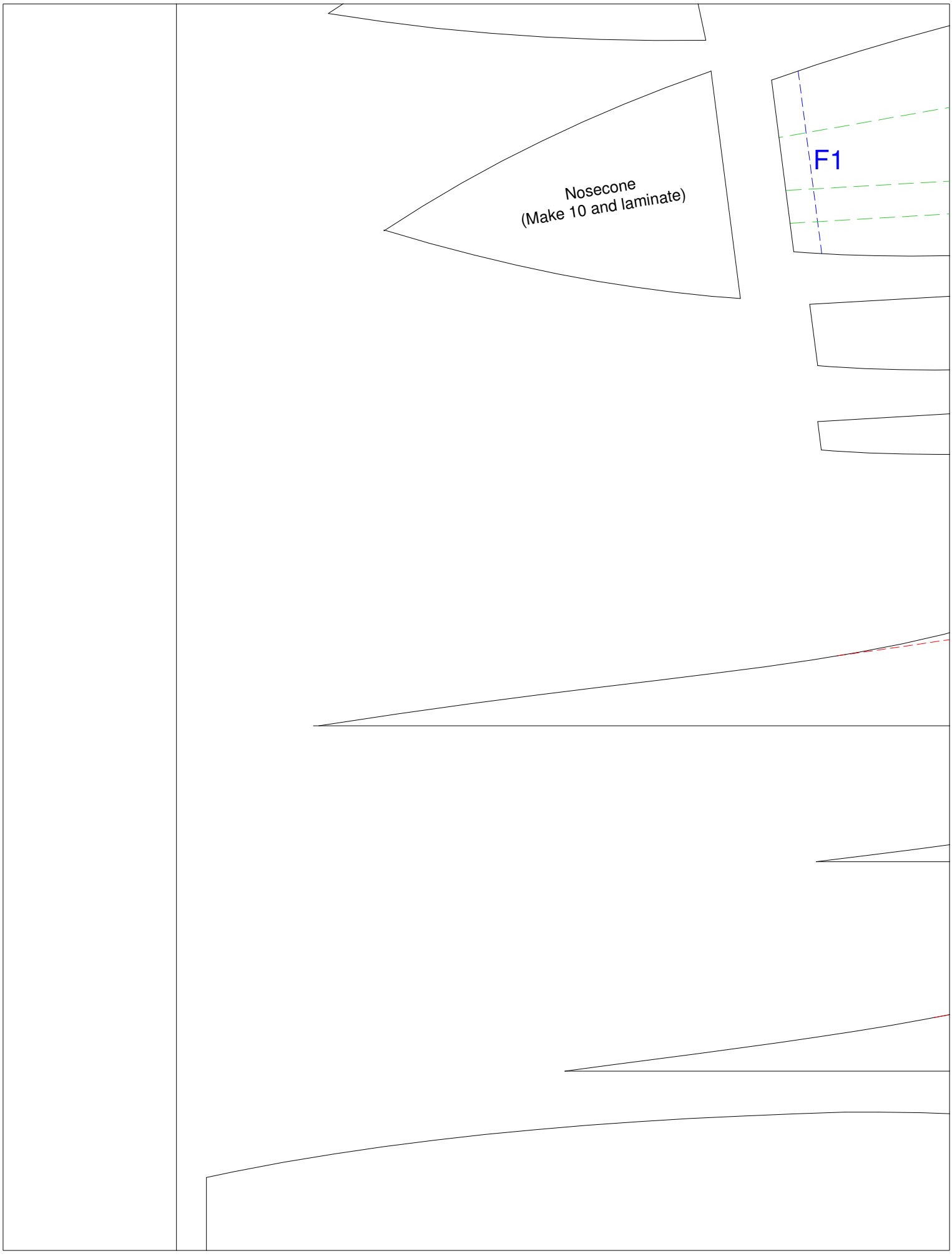


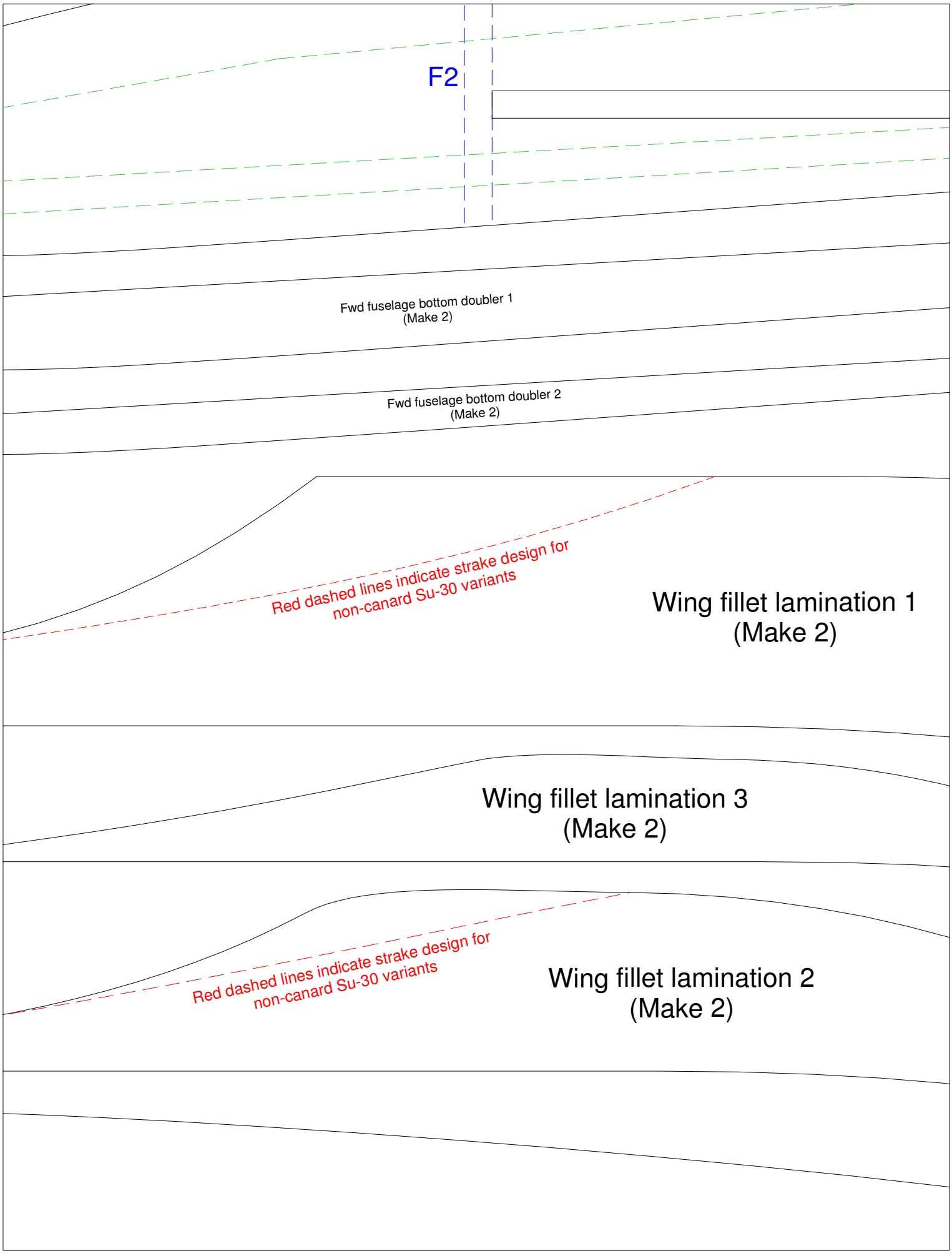



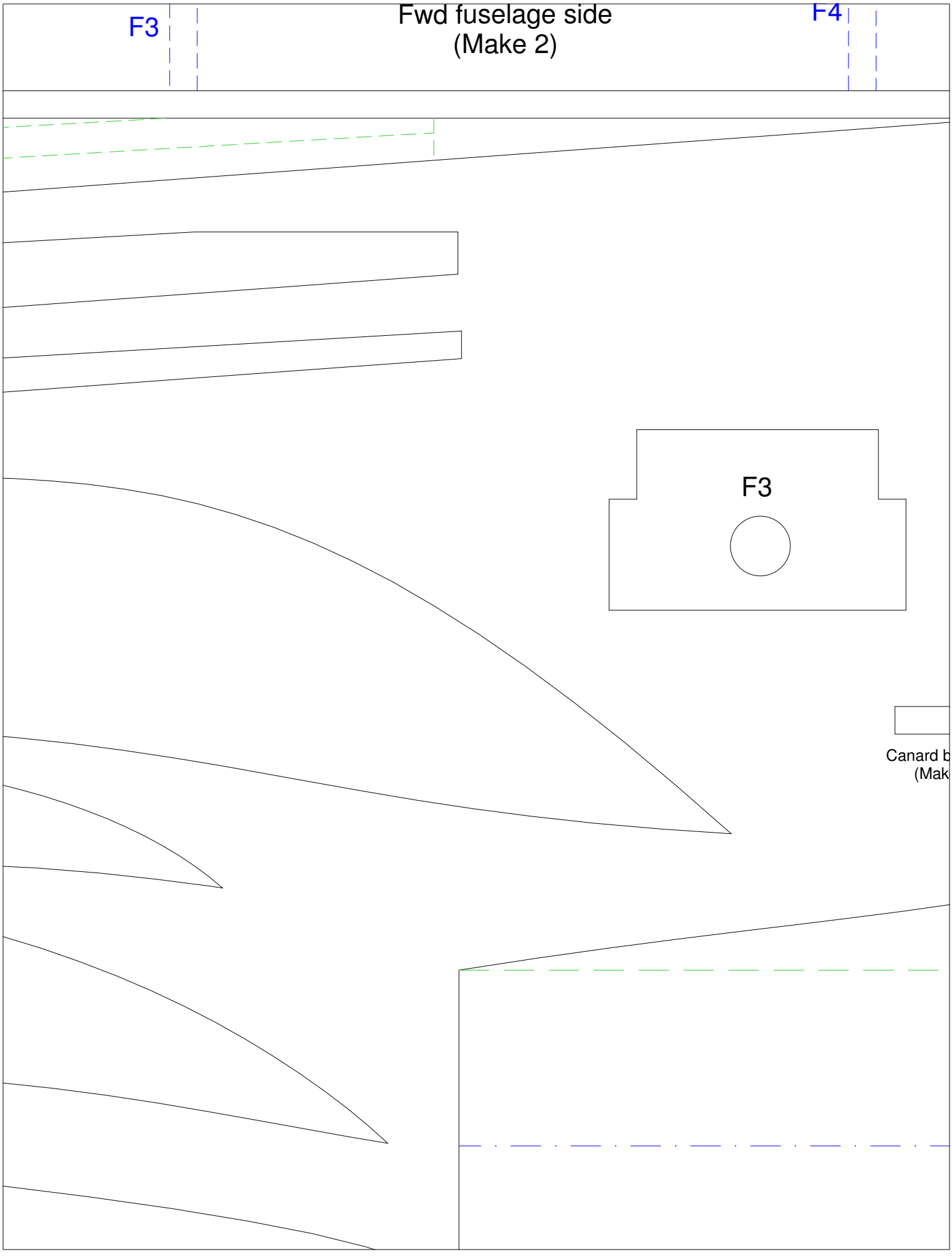

Note: If using a motor other than the LSPJ, modify the height of the side plates to ensure the centerline of the motor is aligned with the pivot bolt (to minimize strain on the servo)

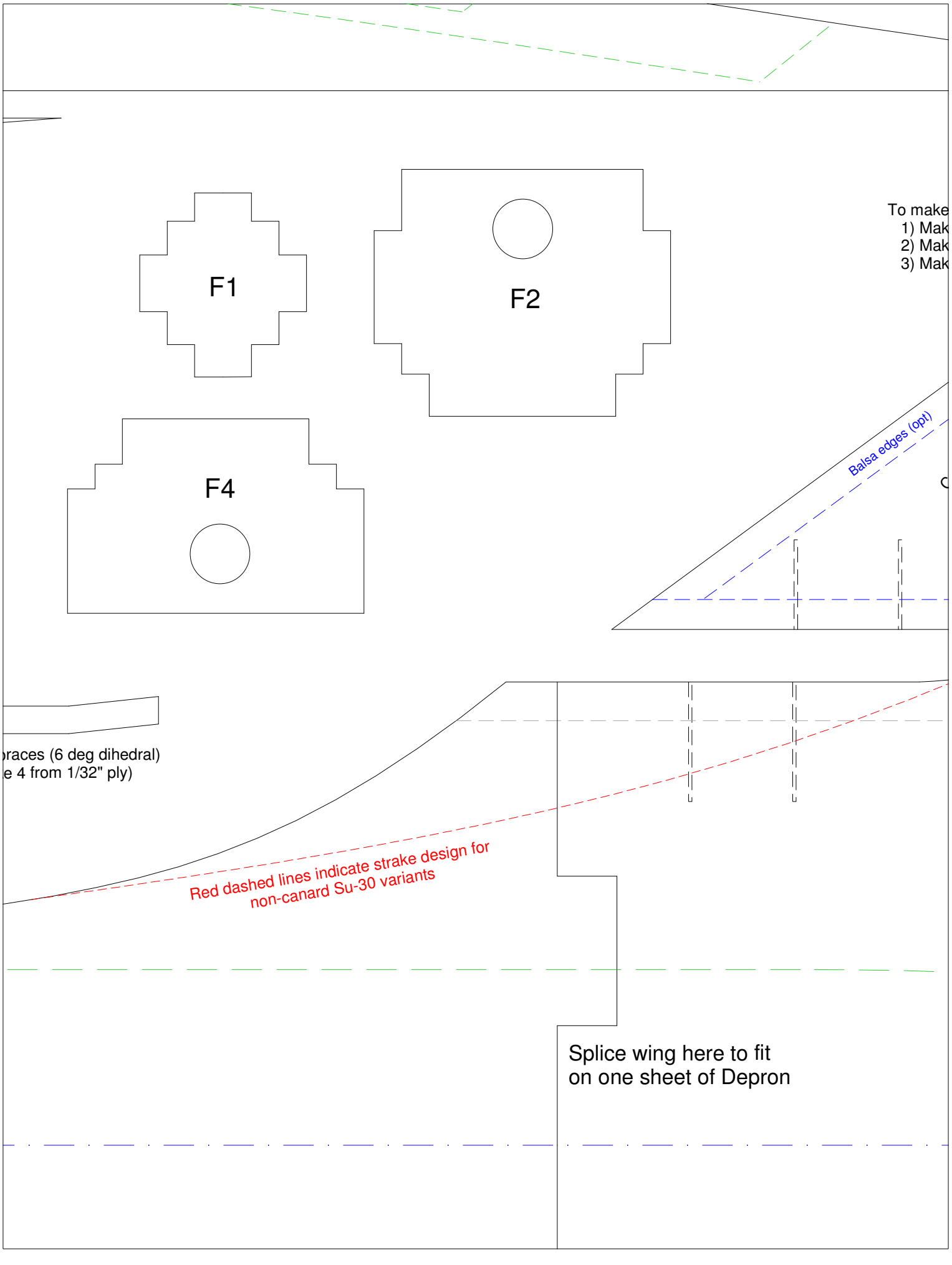

Insert 1/32
spar inside
(6mm x 4.

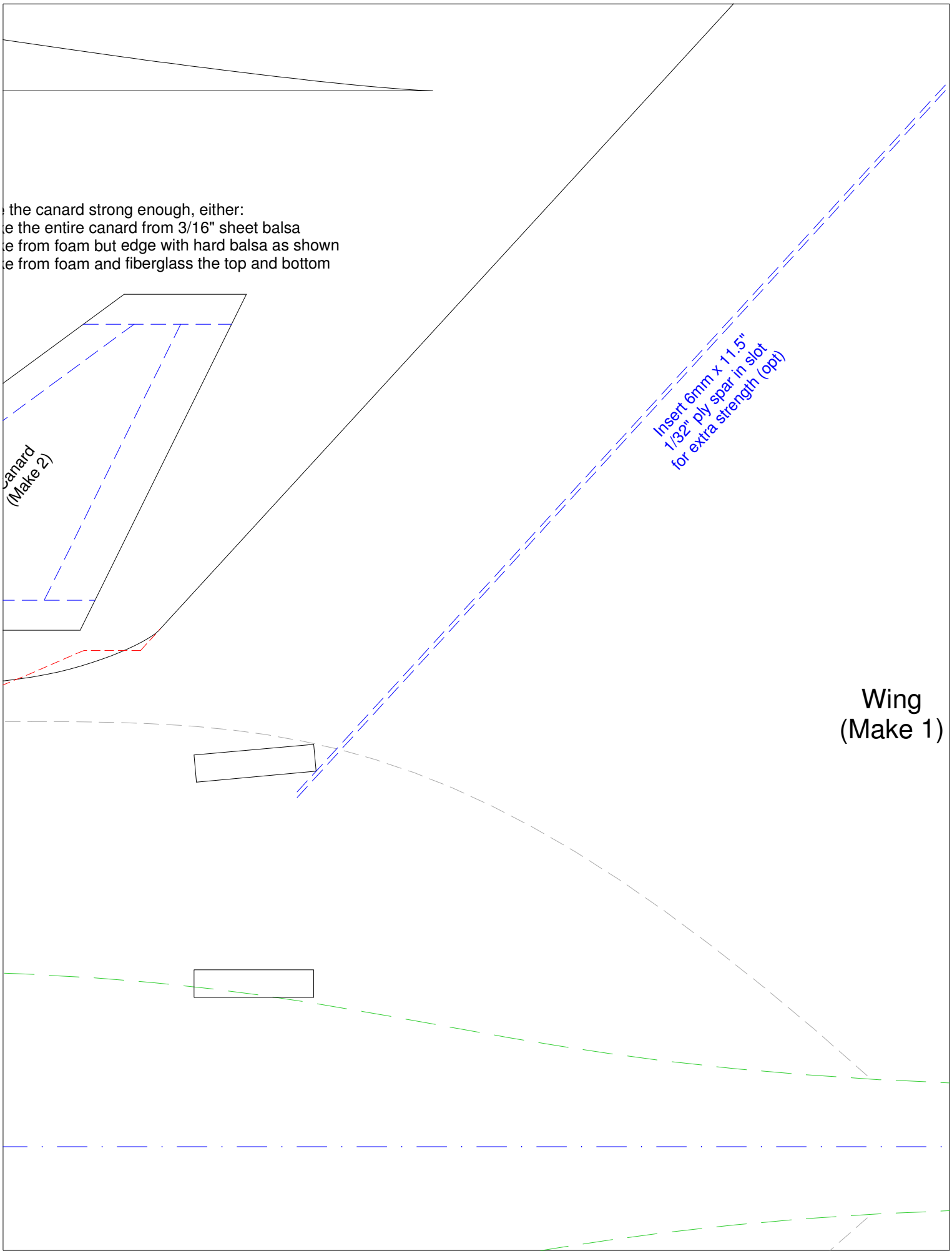

Aft fuselage spine--bottom
(Make 1)
Trim off this part
if using single motor
Aft fuselage spine--top
(Make 2 and laminate)
Inboard
Nacelle tops
(Make 2)
Outboard


Nosecone
(Make 10 and laminate)
F1

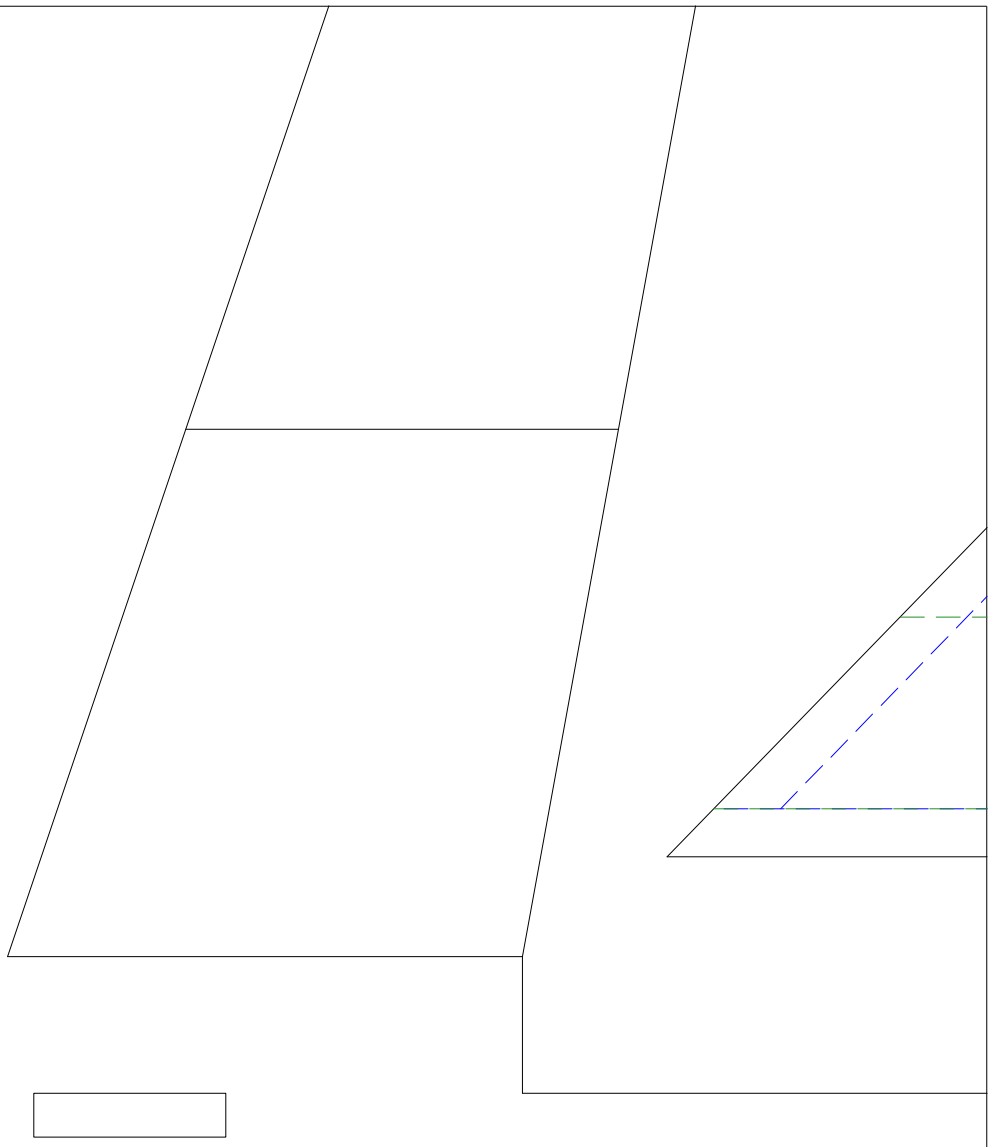

F2
Fwd fuselage bottom doubler 1
(Make 2)
Fwd fuselage bottom doubler 2
(Make 2)
Red dashed lines indicate strake design for
non-canard Su-30 variants
Wing fillet lamination 1
(Make 2)
Wing fillet lamination 3
(Make 2)
Red dashed lines indicate strake design for
non-canard Su-30 variants
Wing fillet lamination 2
(Make 2)


F3
Fwd fuselage side
(Make 2)
F4
F3
Canard b
(Mak

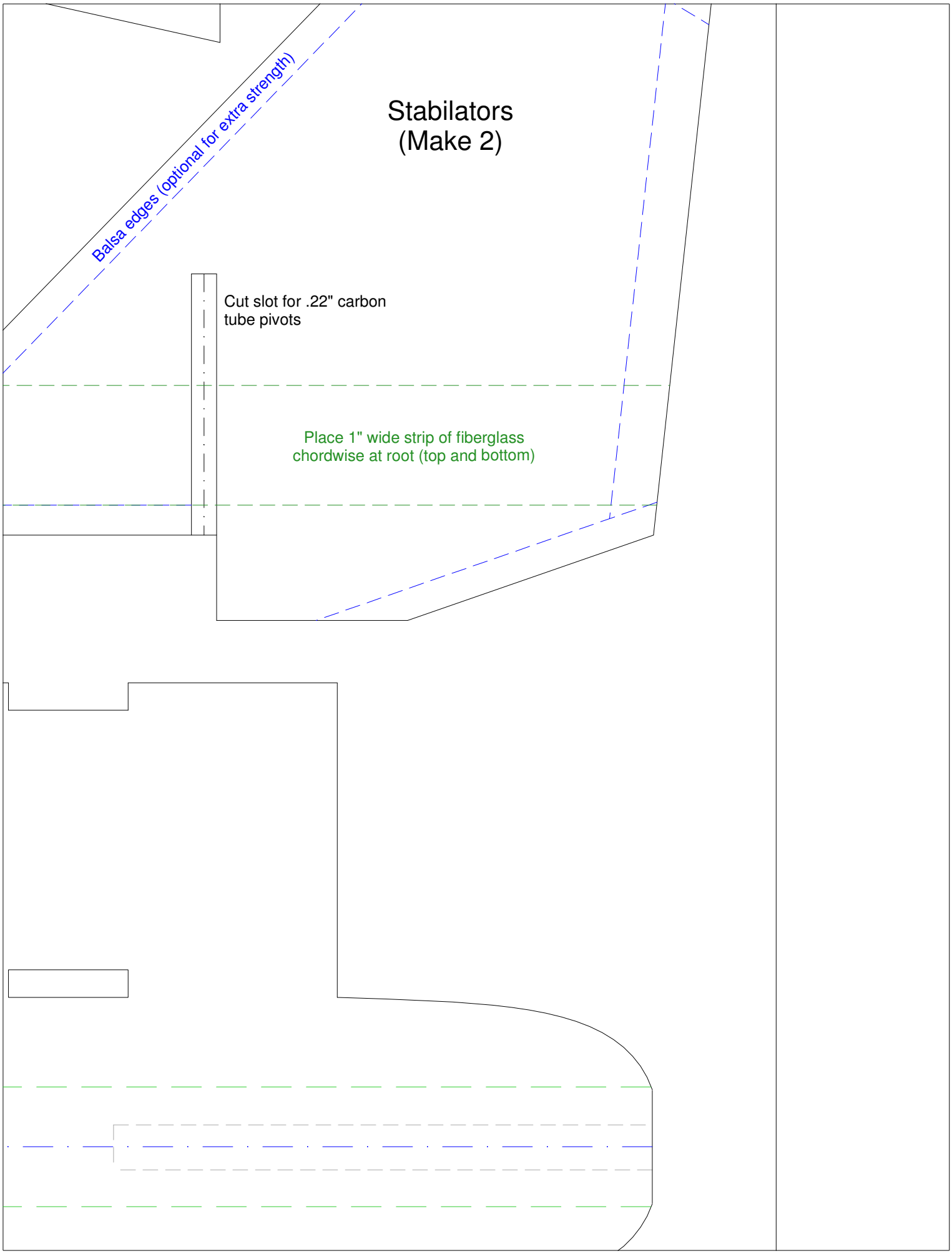

F1
F2
F4
To make
1) Mak
2) Mak
3) Mak
Balsa edges (opt)
races (6 deg dihedral)
e 4 from 1/32" ply)
Red dashed lines indicate strake design for
non-canard Su-30 variants
Splice wing here to fit
on one sheet of Depron

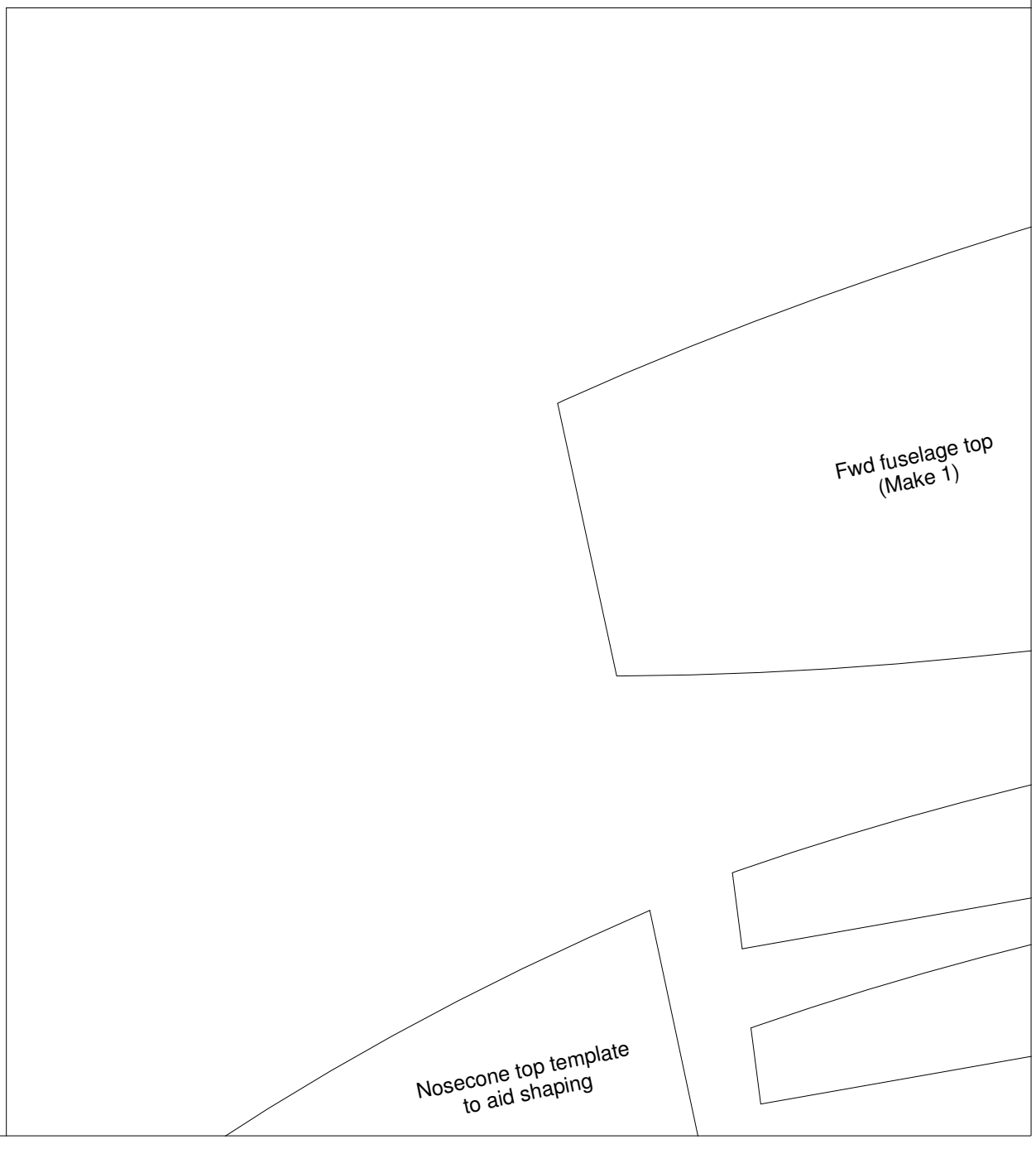

the canard strong enough, either:
e the entire canard from 3/16" sheet balsa
e from foam but edge with hard balsa as shown
e from foam and fiberglass the top and bottom
anard
(Make 2)
Insert 6mm x 11.5"
1/32" ply spar in slot
for extra strength (opt)
Wing
(Make 1)

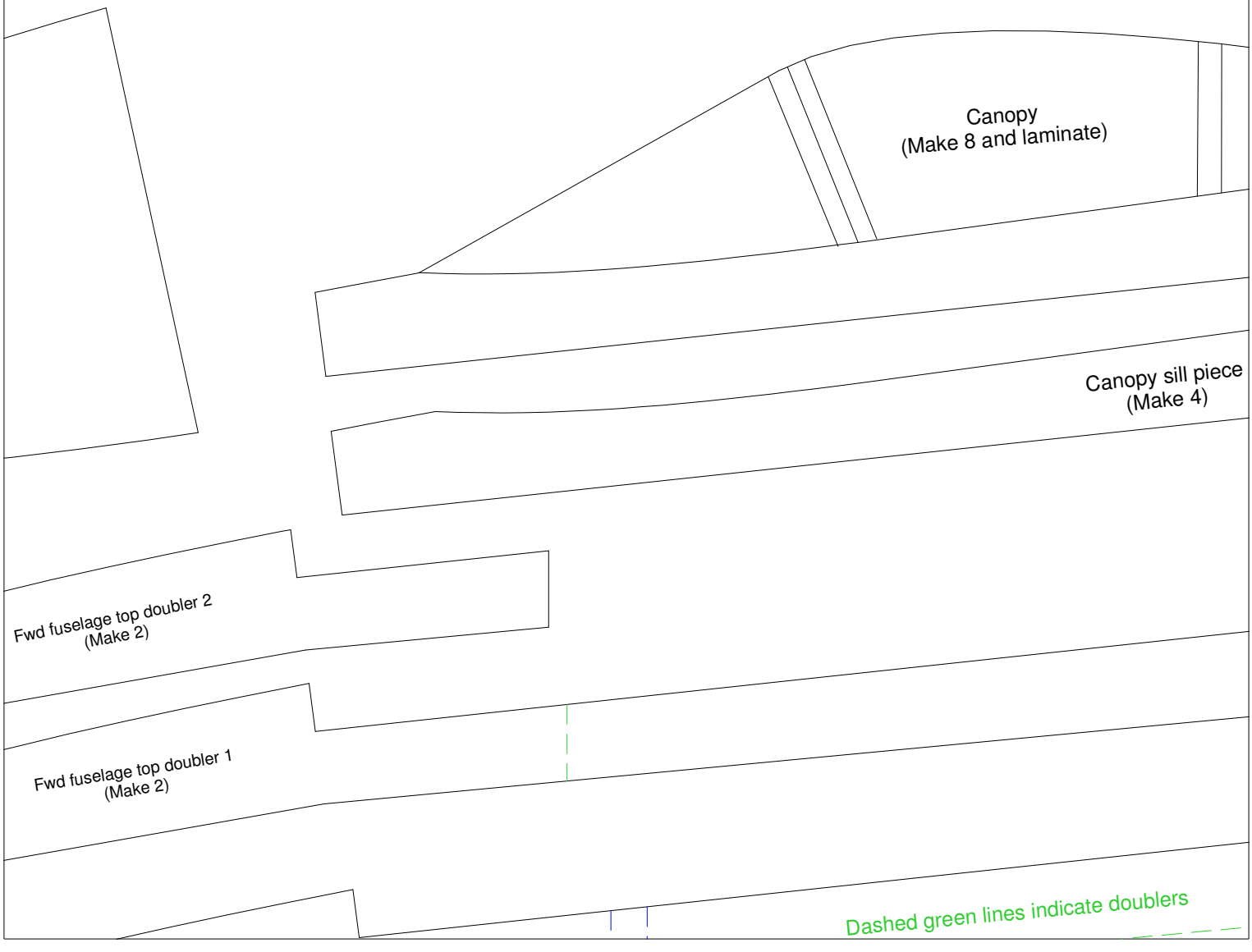
.22" carbon tube spar

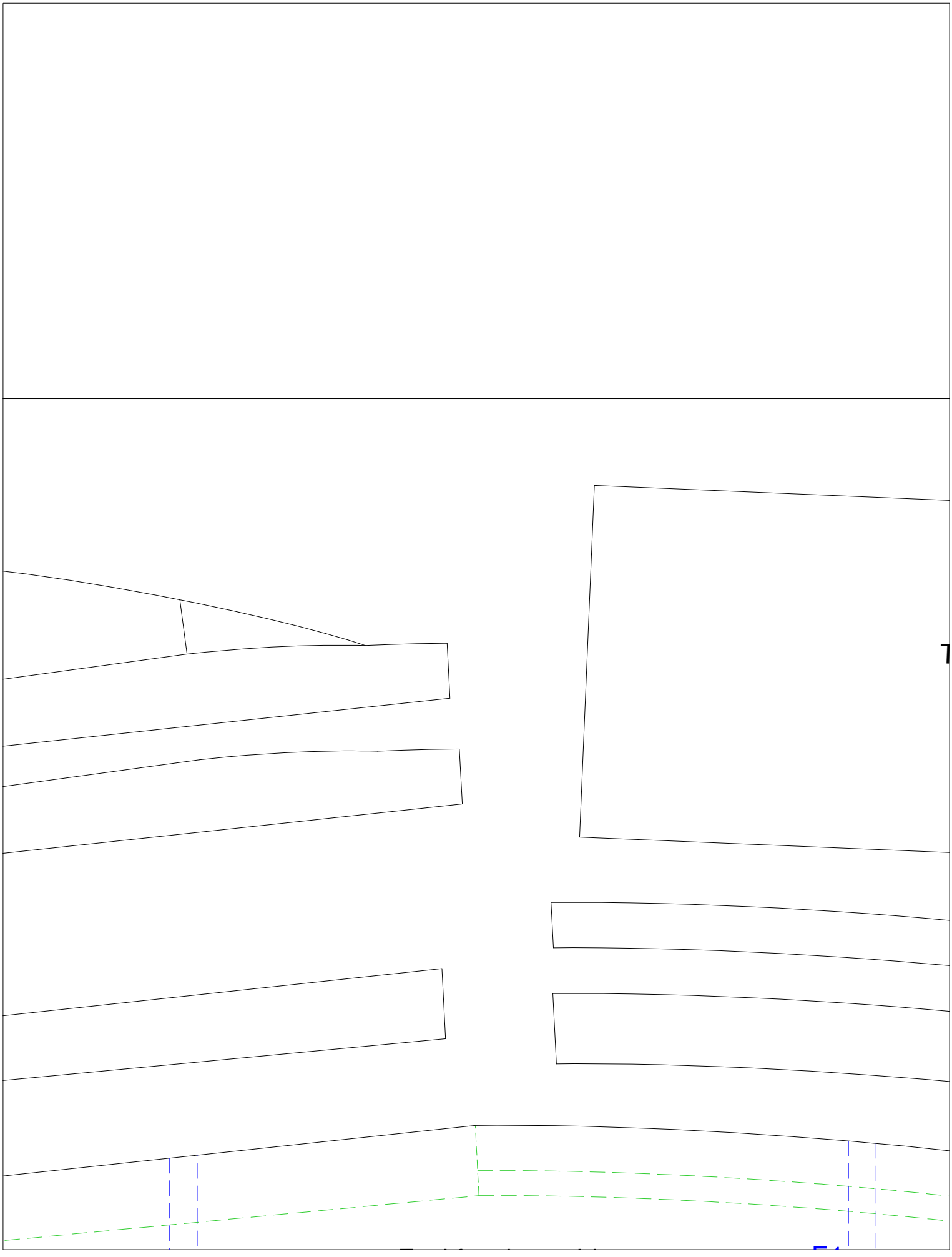


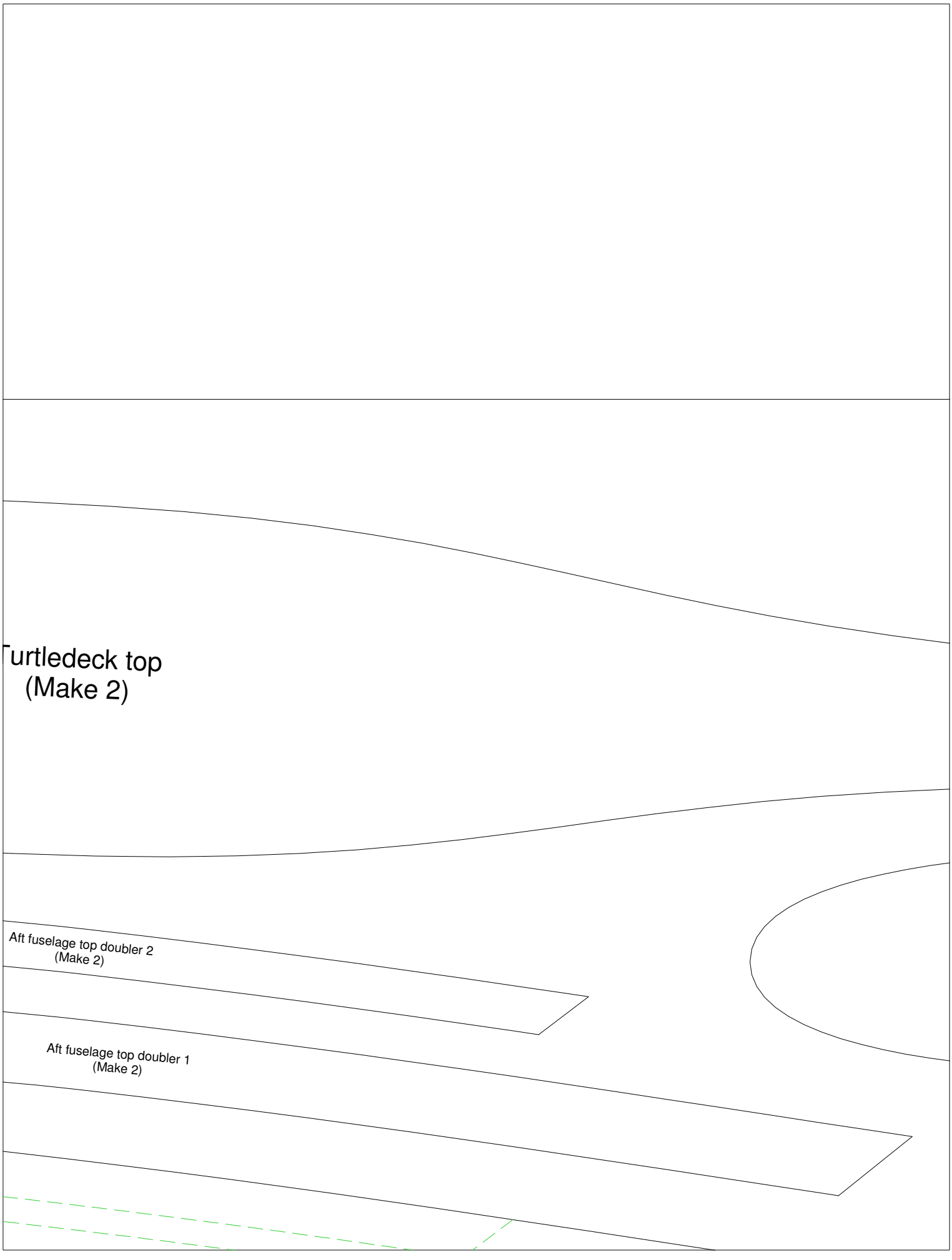
Cut slots to fit tabs in
nacelle sides (typical)

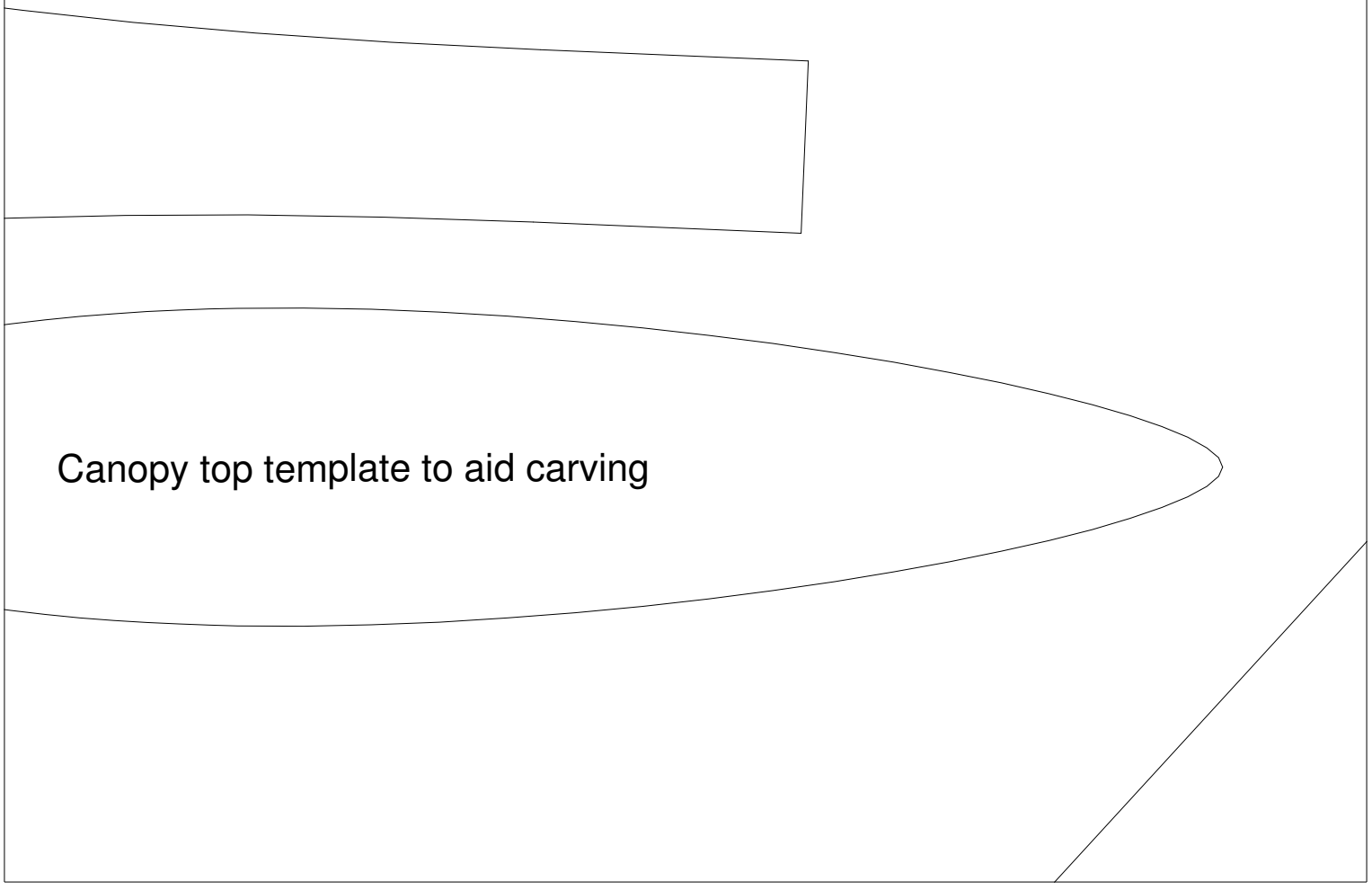

Stabilators
(Make 2)
Balsa edges (optional for extra strength)
Cut slot for .22" carbon
tube pivots
Place 1" wide strip of fiberglass
chordwise at root (top and bottom)


Fwd fuselage top
(Make 1)
Nosecone top template
to aid shaping

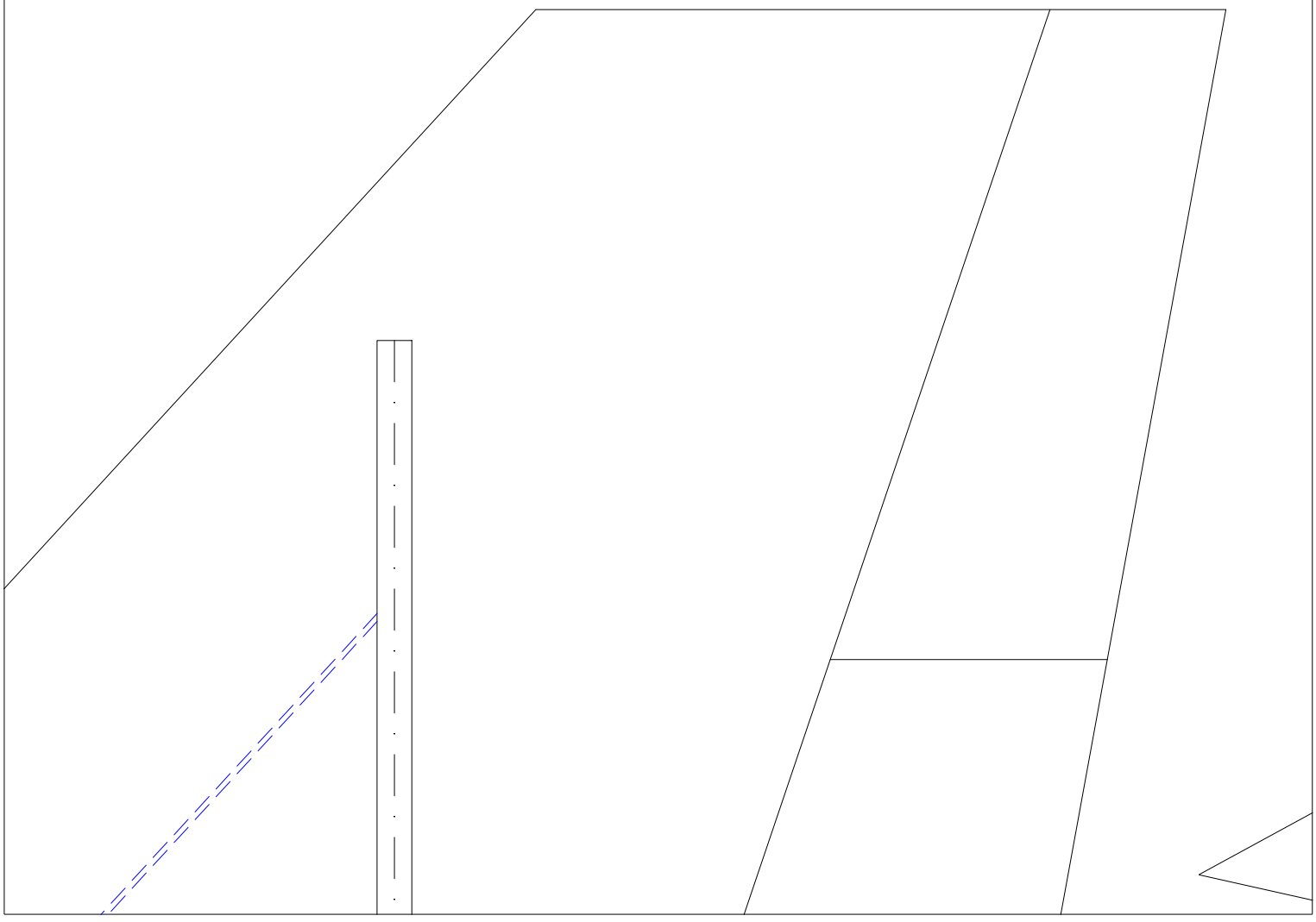

Canopy
(Make 8 and laminate)
Canopy sill piece
(Make 4)
Fwd fuselage top doubler 2
(Make 2)
Fwd fuselage top doubler 1
(Make 2)
Dashed green lines indicate doublers

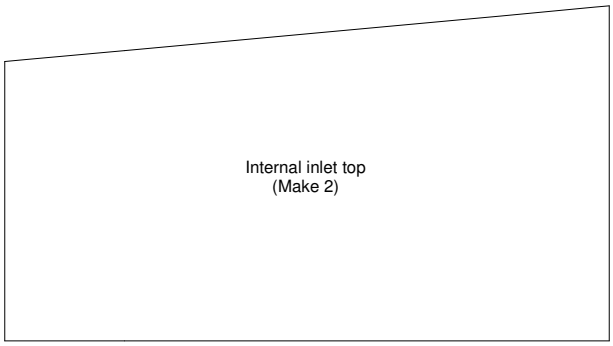


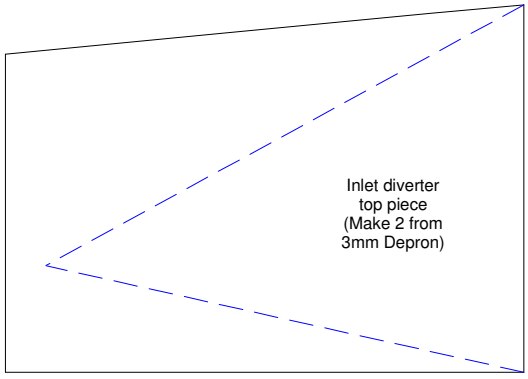

urtledeck top
(Make 2)
Aft fuselage top doubler 2
(Make 2)
Aft fuselage top doubler 1
(Make 2)

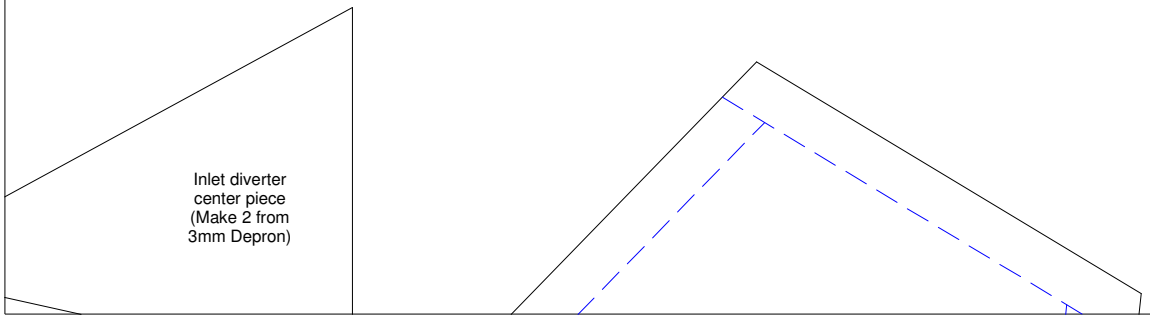

Canopy top template to aid carving

Wingtip missle rail (make 2 from 1/4" x 3/8" balsa)




Internal inlet top
(Make 2)


Inlet diverter
top piece
(Make 2 from
3mm Depron)


Inlet diverter
center piece
(Make 2 from
3mm Depron)