

F-100 "Super Sabre" Park Jet

1/13th Scale

Designed by: Ben Song

Wing Span: 35 3/4in

Length: 43 3/16in

Wing Area: 345sqin

AUW: 25oz

Wing Loading: 10.4oz/sqft

C of G: 6-1/2 to 6-5/8" aft of LE at root

Servos: 3 (aileron x2, elevator x1)

Motor: Little Screammers SPJ

Battery: 2100 3s1p

Max Amps: A

Control Throws:

Aileron: low rates: 1/2" up & down; high rates: 3/4" up & down (-40% expo)

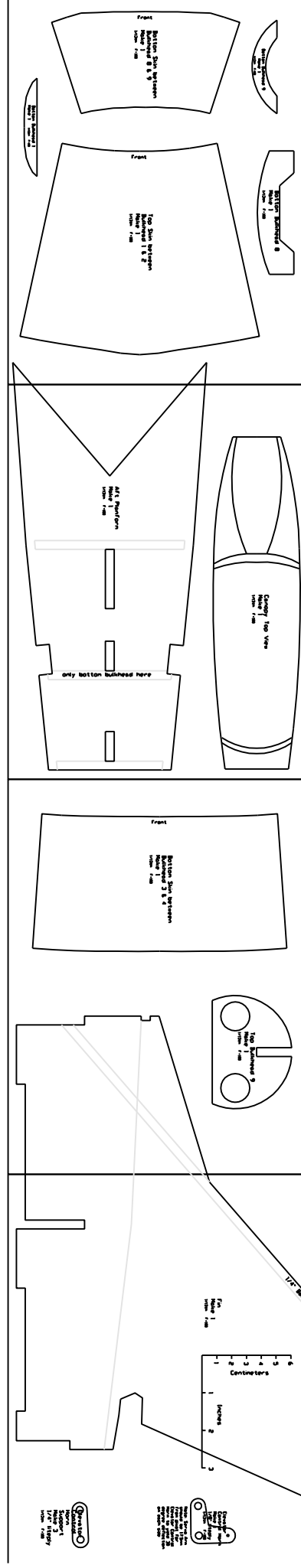
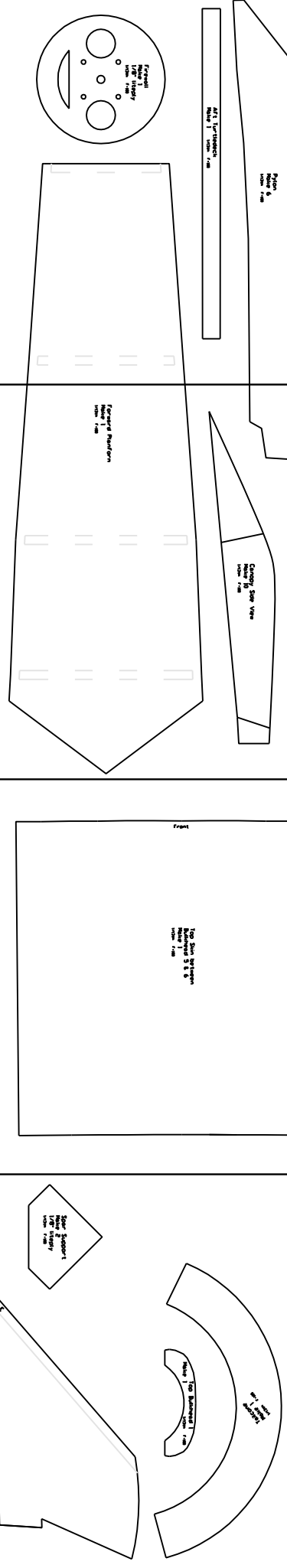
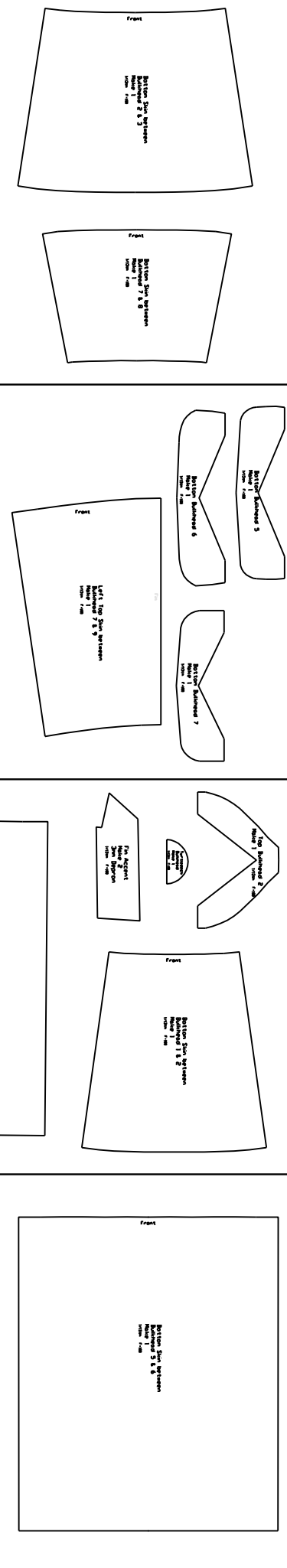
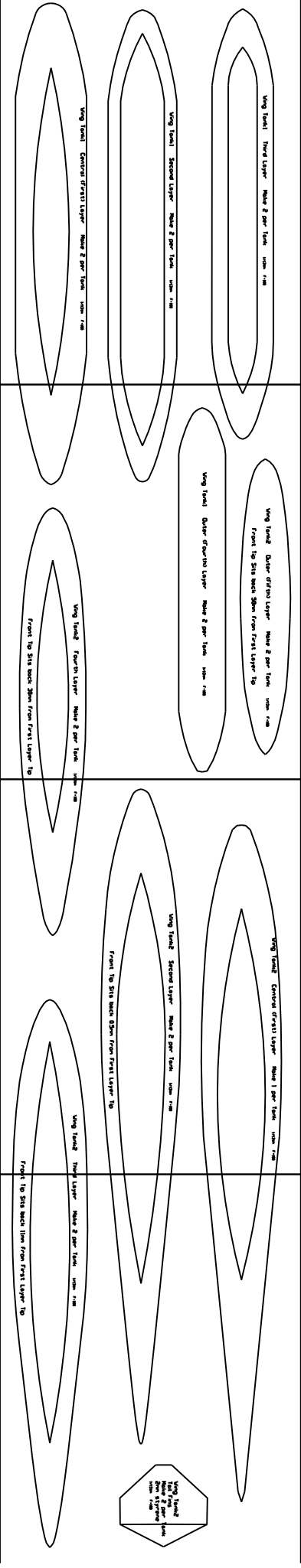
Elevator: low rates: 3/4" up & down; high rates 1" up & down (-40% expo) [mesasured from LE tip]

Made from FFF or 6mm Depron unless otherwise specified.

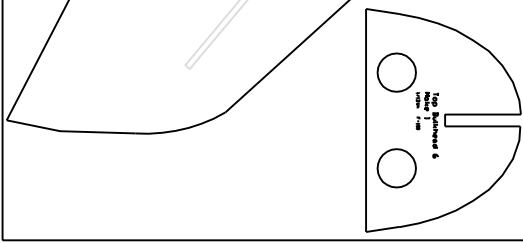
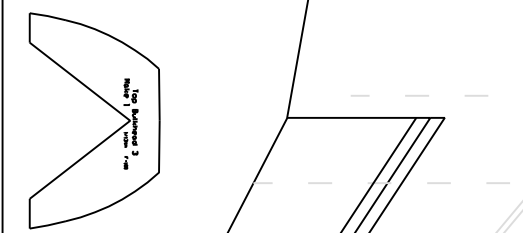
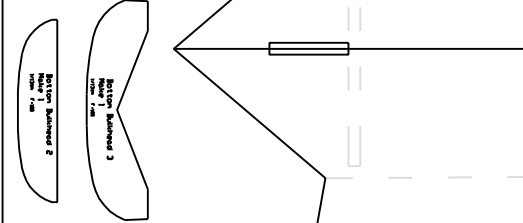
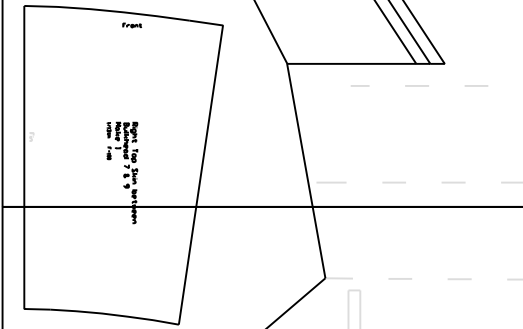
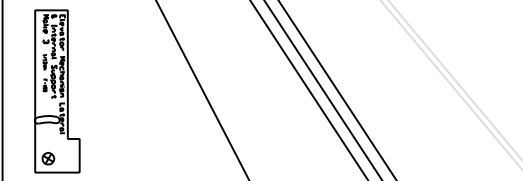
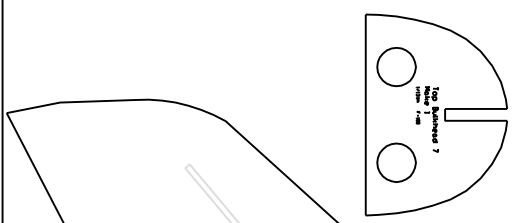
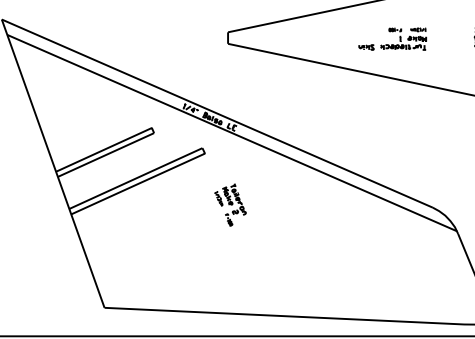
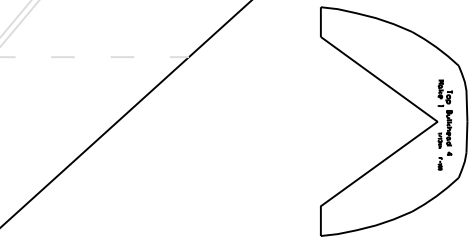
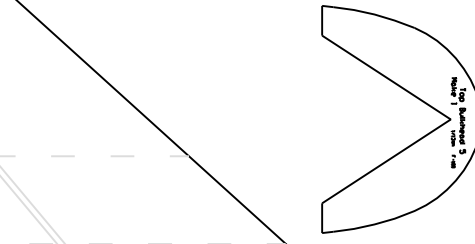
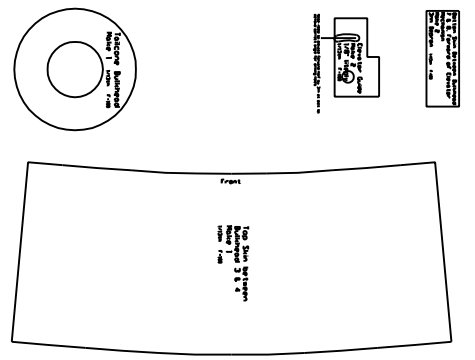
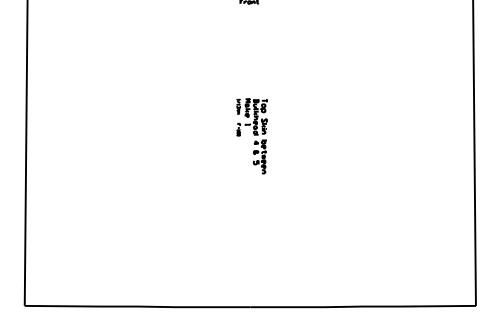
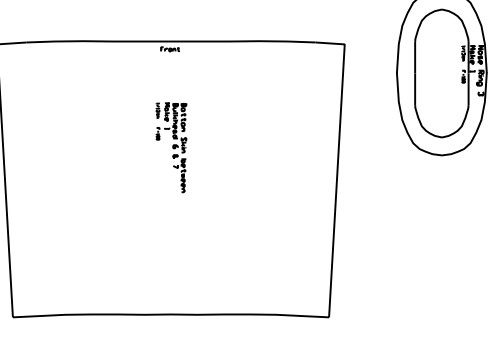
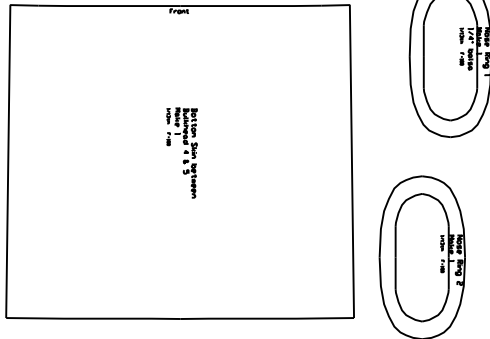
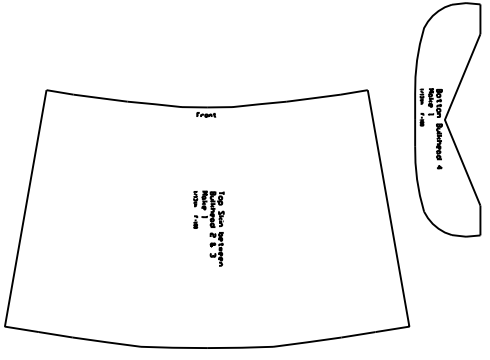
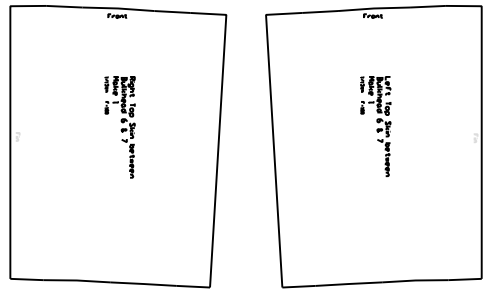
If you enjoy these plans, please consider a \$10 Paypal donation to benjsong@hotmail.com if you would like to see more designs.

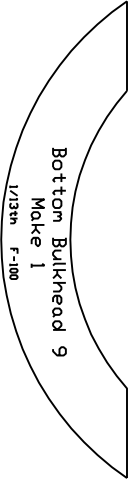
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Materials List:
-FFF or 6mm Depron
-3mm Depron
-1/8" liteply
-0.055" piano wire
-carbon fiber tube: 3.5mm OD - 10.25"
-aluminum tube: 3/16" - 24mm x2

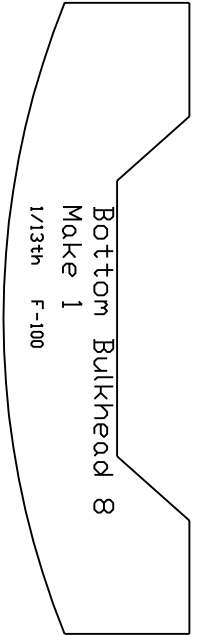


1. Cut out all pieces.
 2. Sew the bodice pieces together.
 3. Sew the skirt pieces together.
 4. Sew the waistband pieces together.
 5. Attach the waistband to the skirt.
 6. Attach the bodice to the skirt.
 7. Finish the garment.

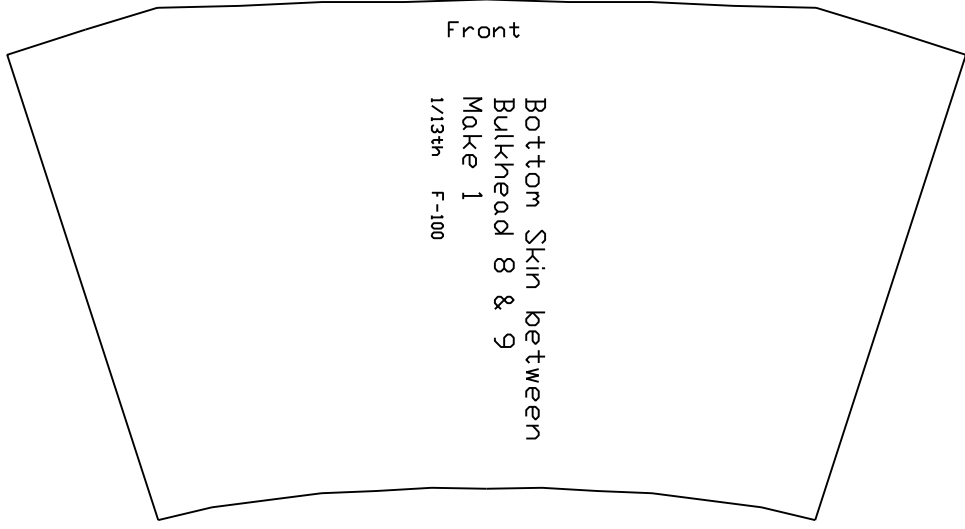




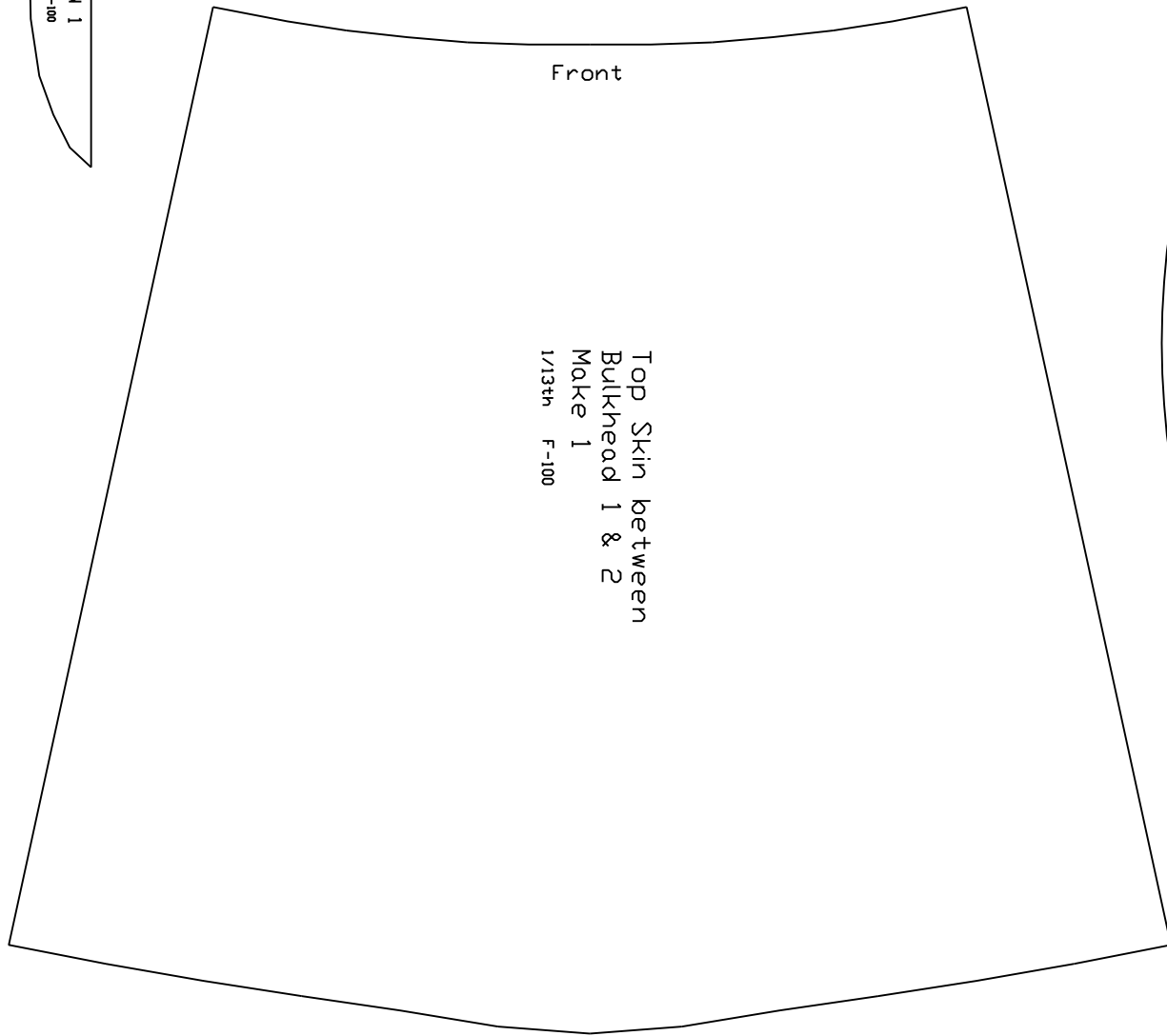
Bottom Bulkhead 9
Make 1
1/13th F-100



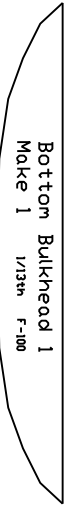
Bottom Bulkhead 8
Make 1
1/13th F-100



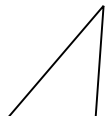
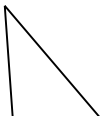
Front
Bottom Skin between
Bulkhead 8 & 9
Make 1
1/13th F-100



Front
Top Skin between
Bulkhead 1 & 2
Make 1
1/13th F-100



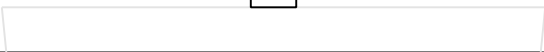
Bottom Bulkhead 1
Make 1
1/13th F-100



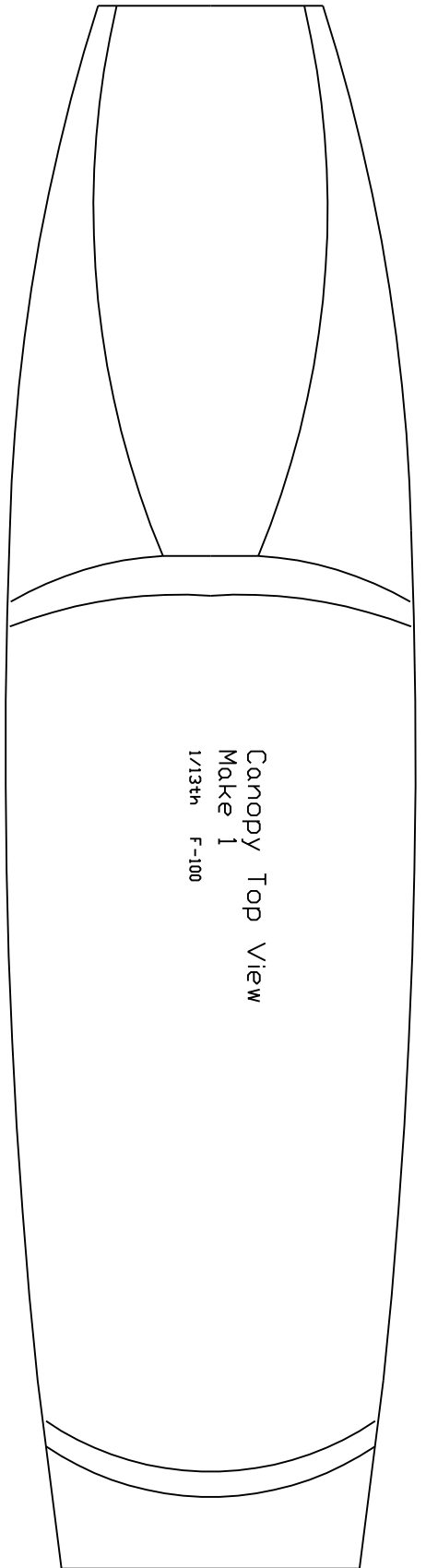
Aft Platform
Make 1
1/13th F-100

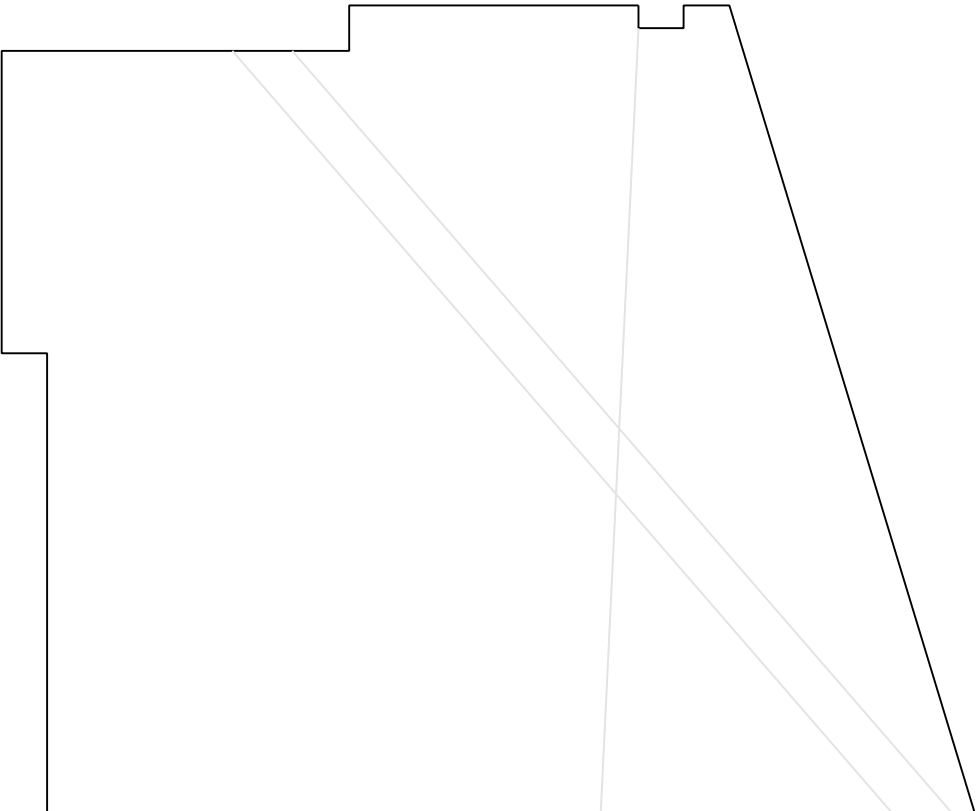
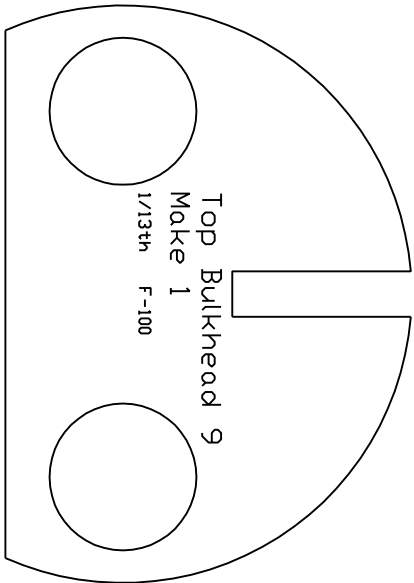
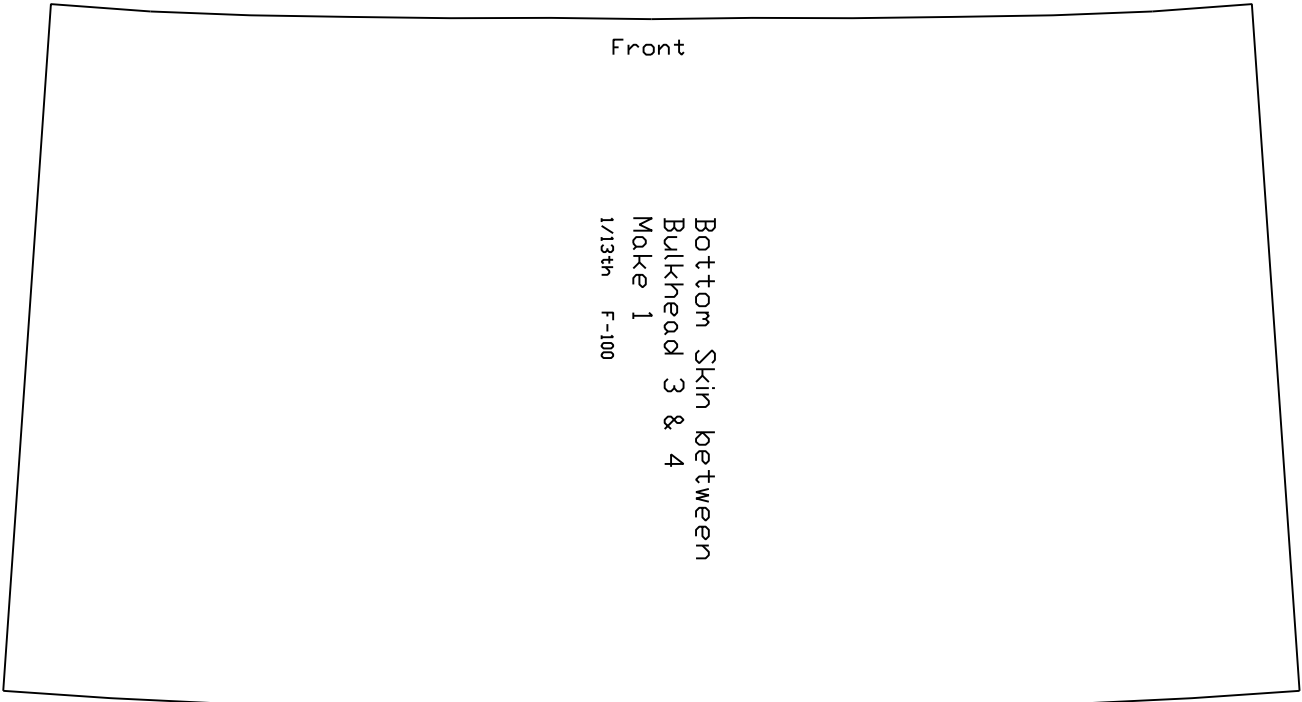


only bottom bulkhead here



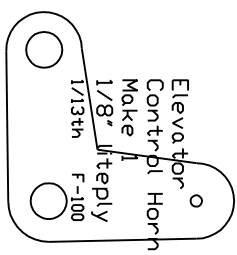
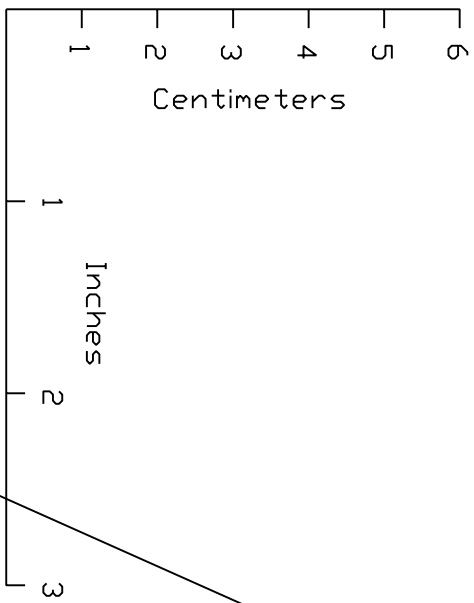
Canopy Top View
Make 1
1/13th F-100



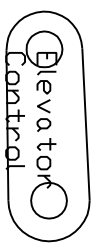


1/4" Balsa

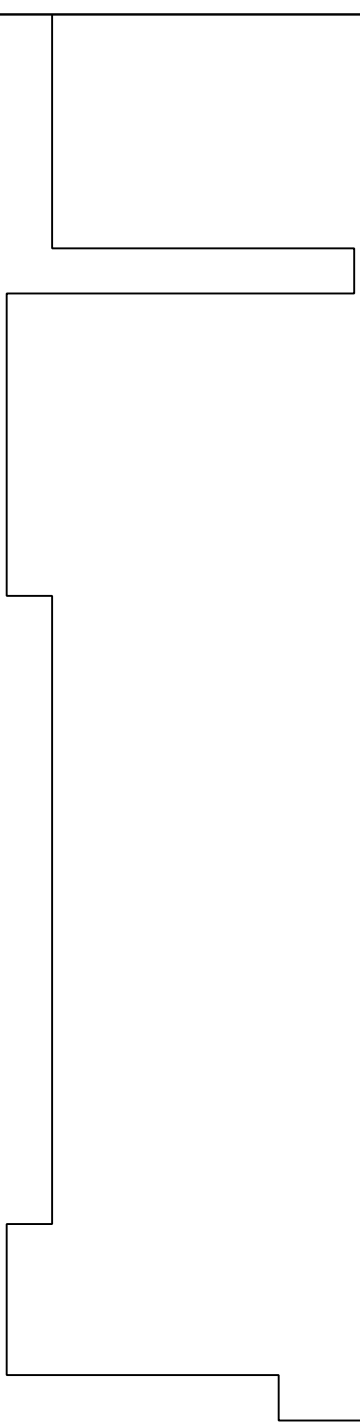
Fin
Make 1
1/13th F-100



Note: Servo Arm should be 17.5mm from pivot for Elevator Control Horn to yield 30 degree deflection on each side

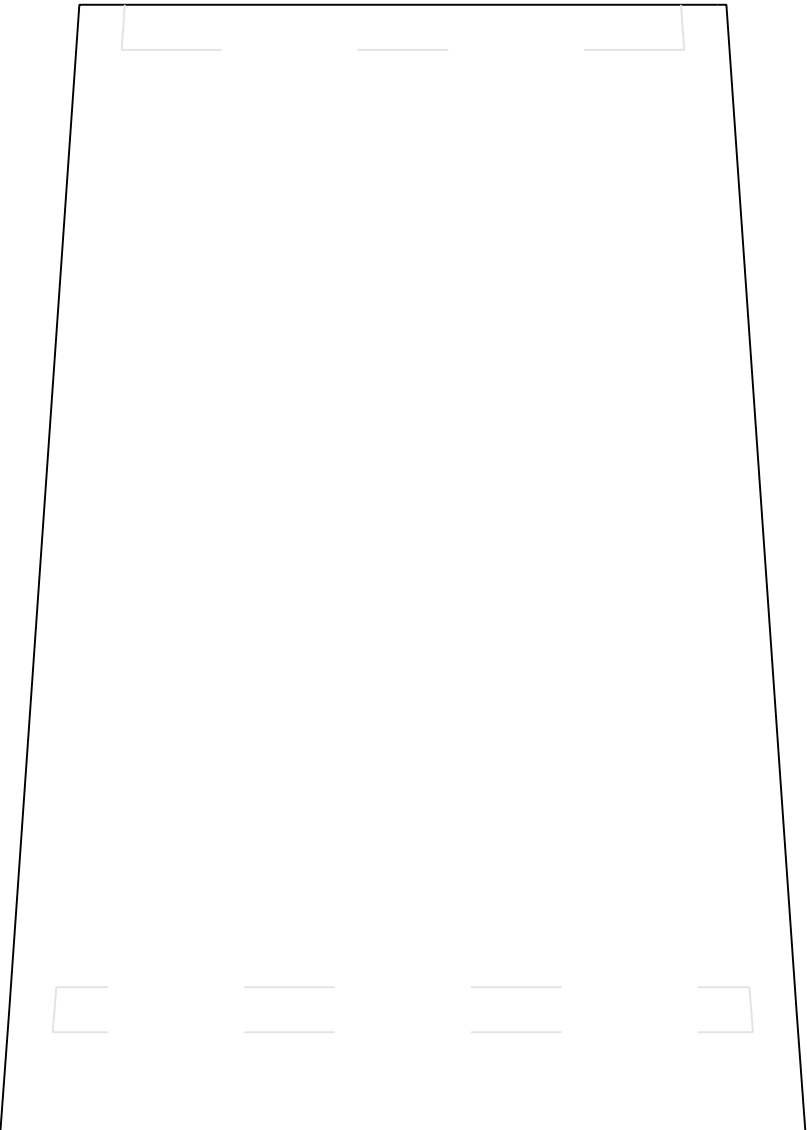
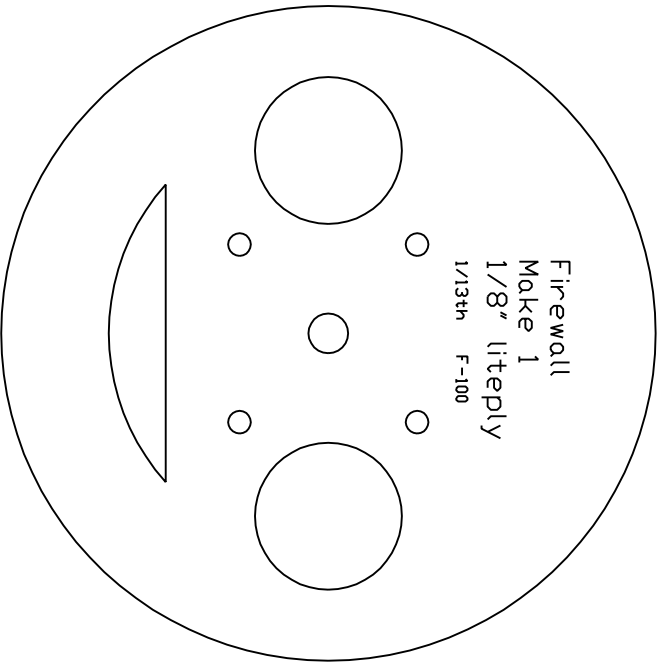


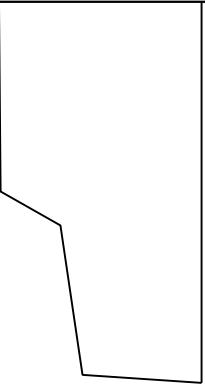
Horn
Support
Make 3
1/4" liteply
1/13th F-100



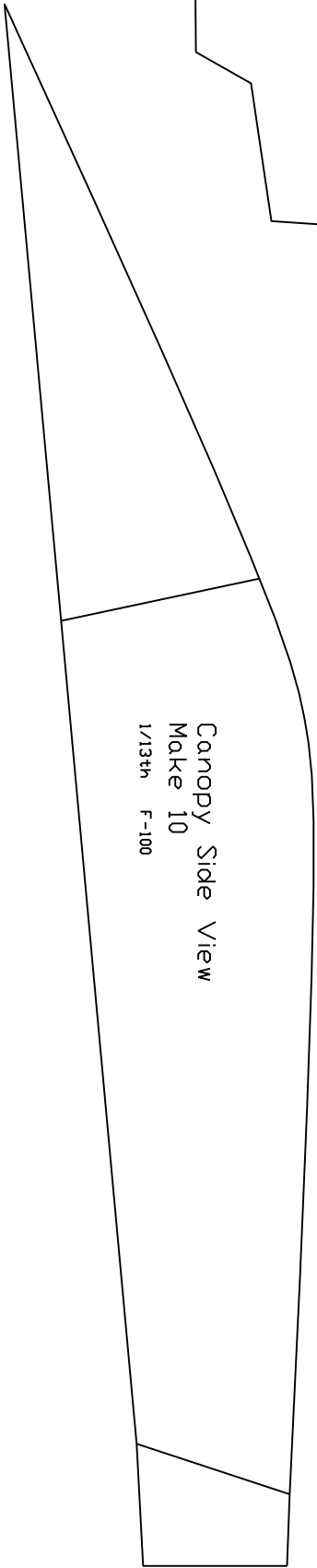
Pylon
Make 6
1/13th F-100

Aft Turtledeck
Make 1 1/13th F-100

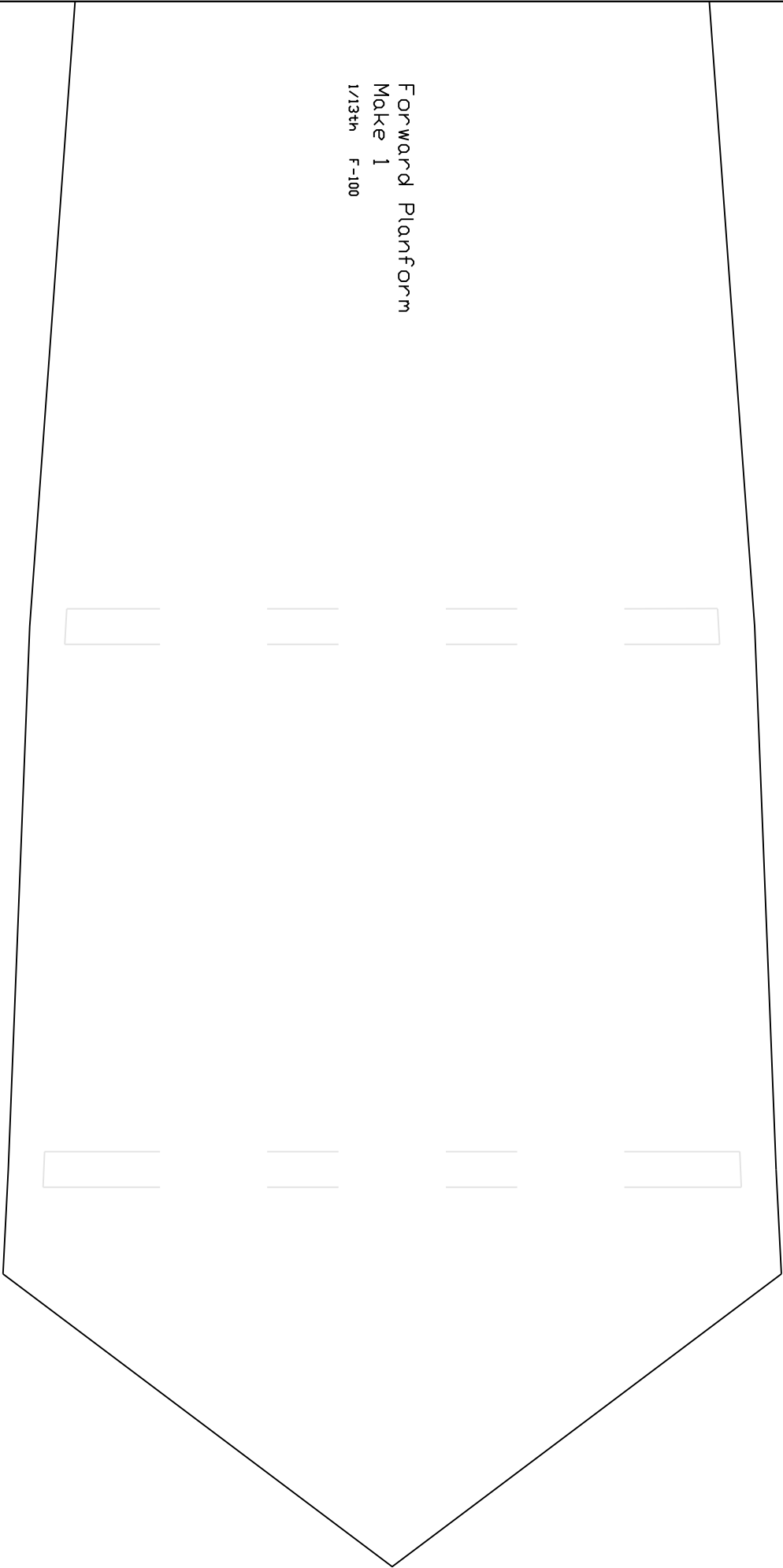




Canopy Side View
Make 10
1/13th F-100

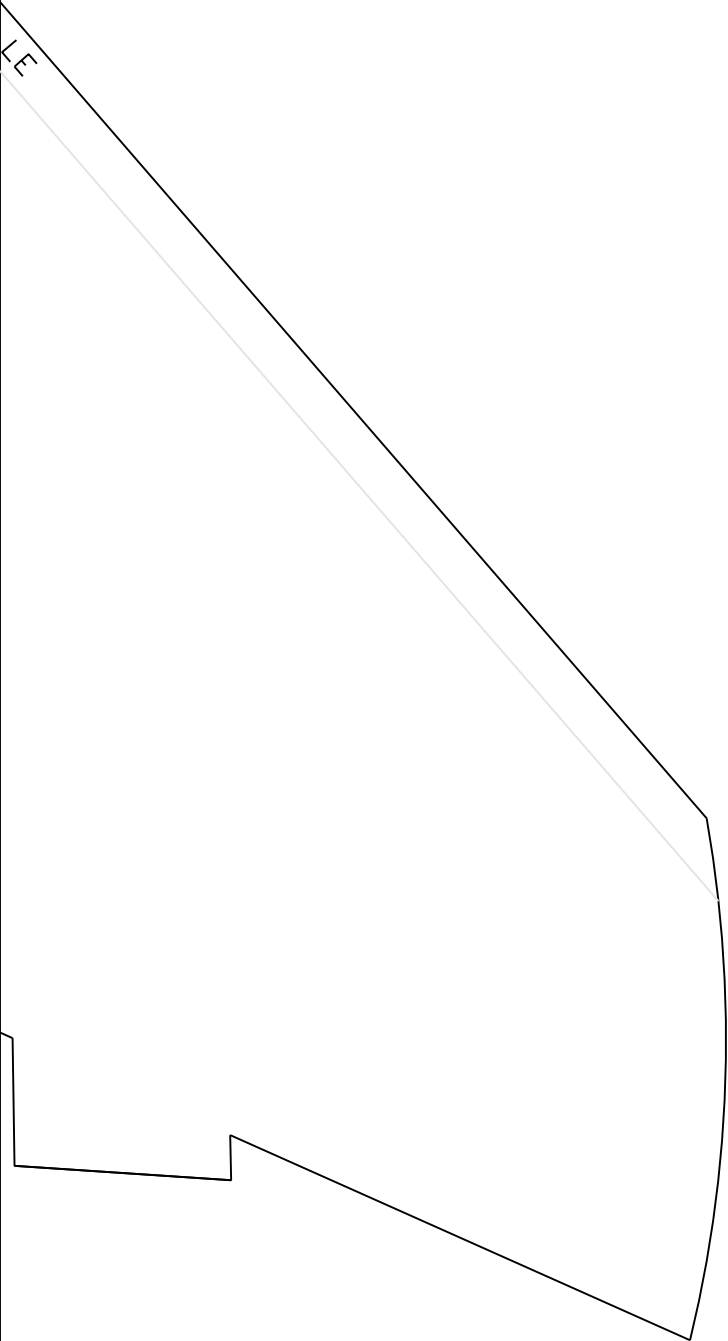
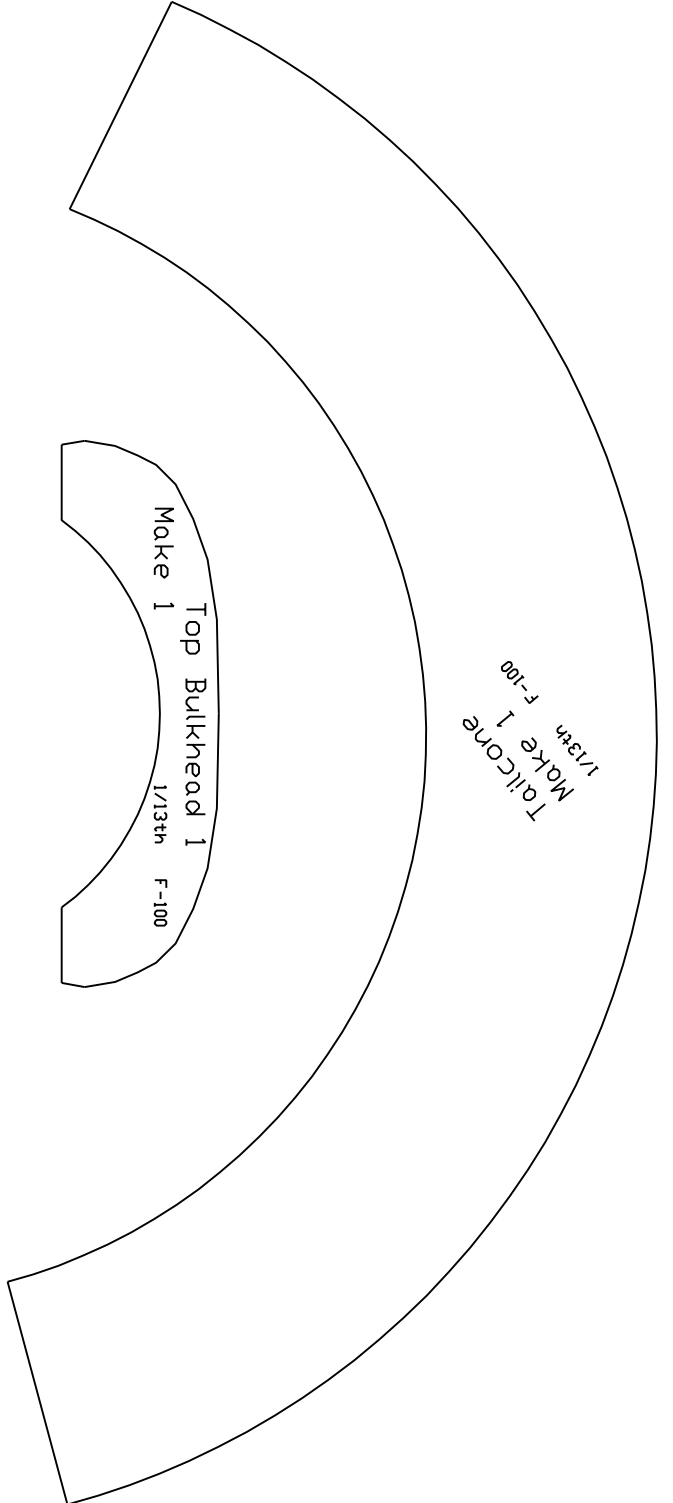
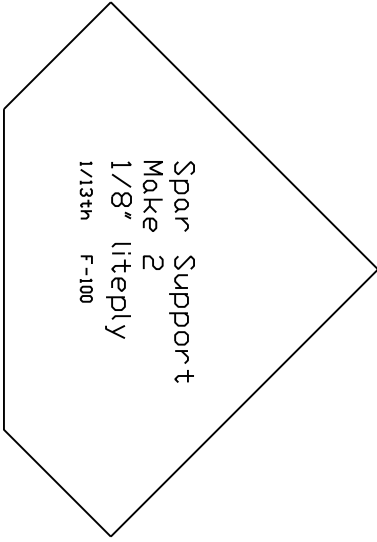


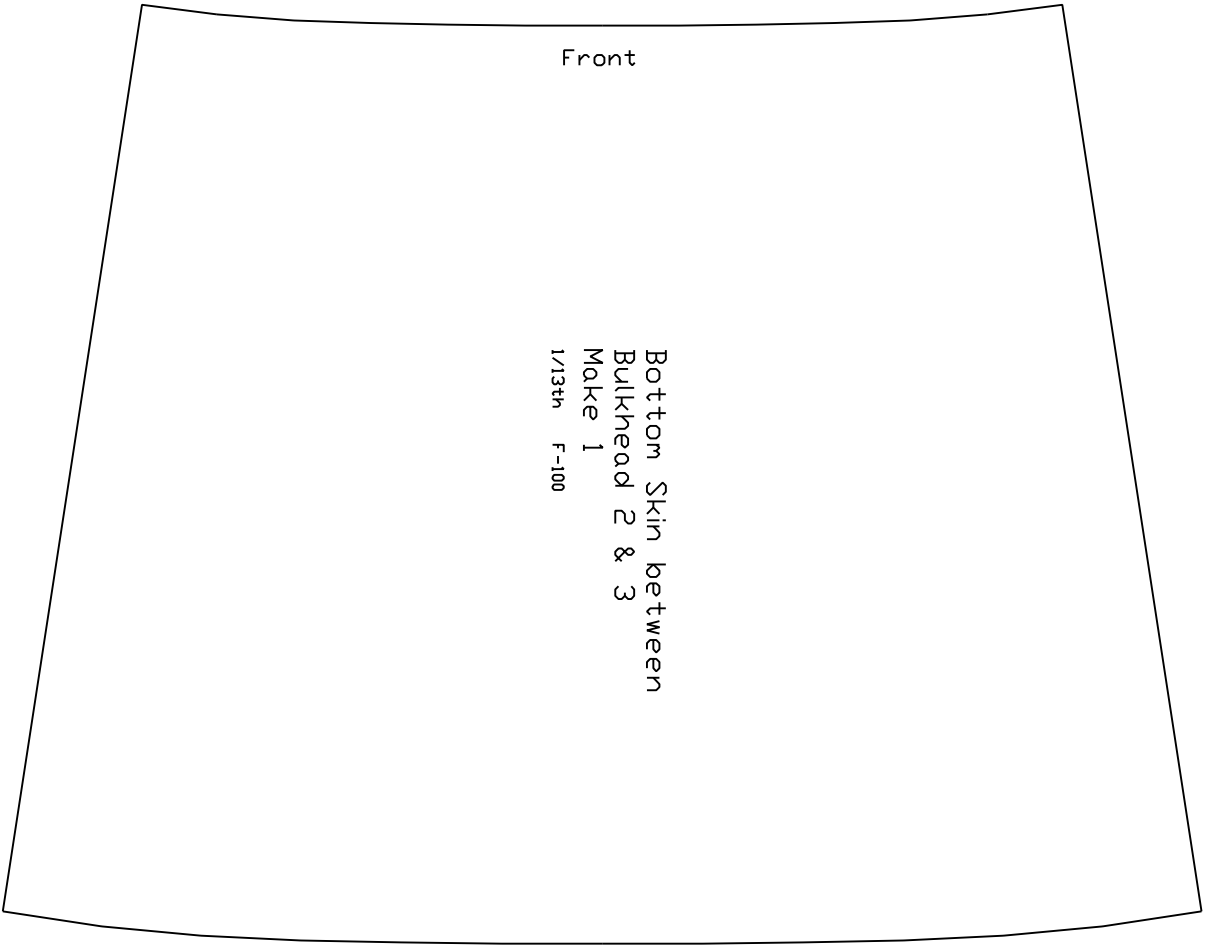
Forward Platform
Make 1
1/13th F-100



Front

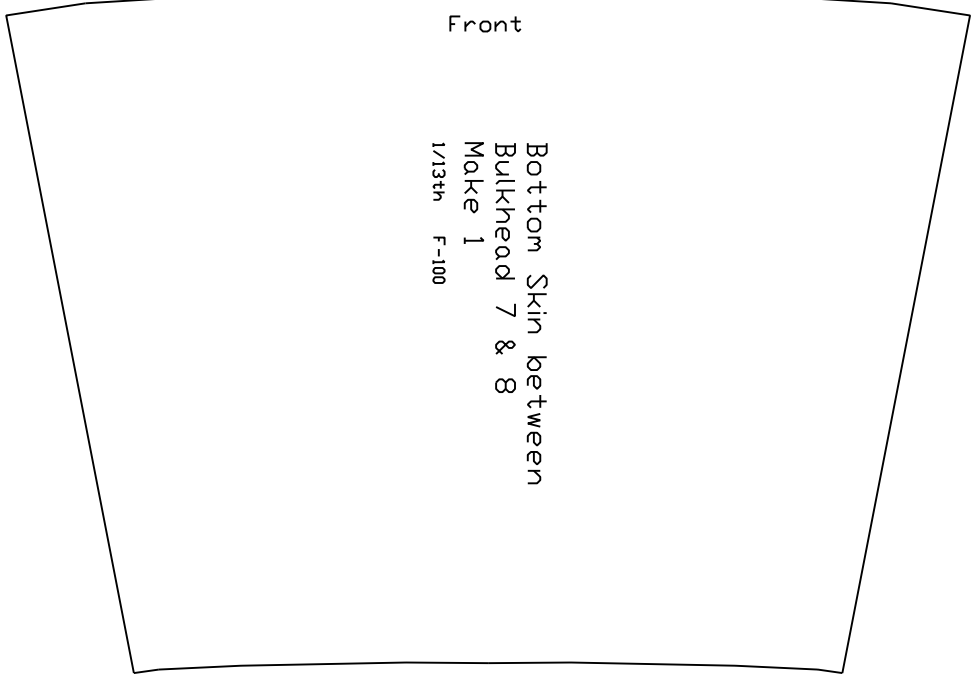
Top Skin between
Bulkhead 5 & 6
Make 1
1/13th F-100





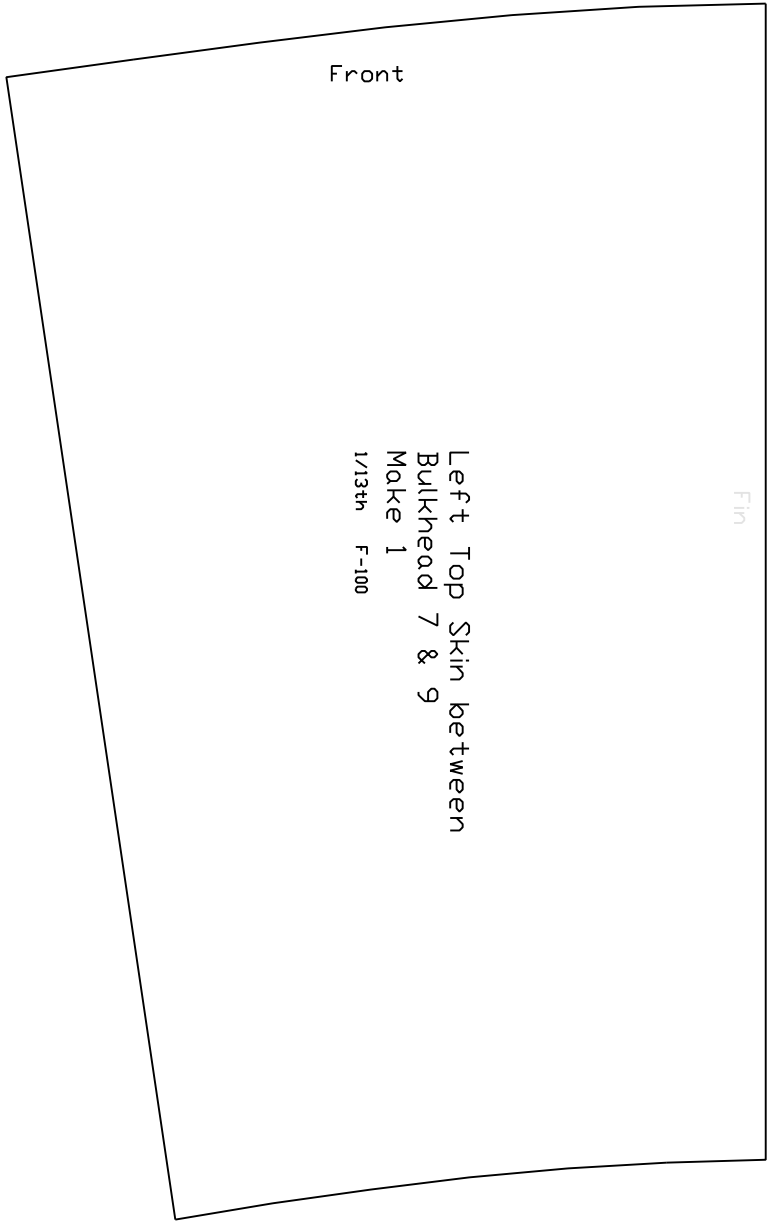
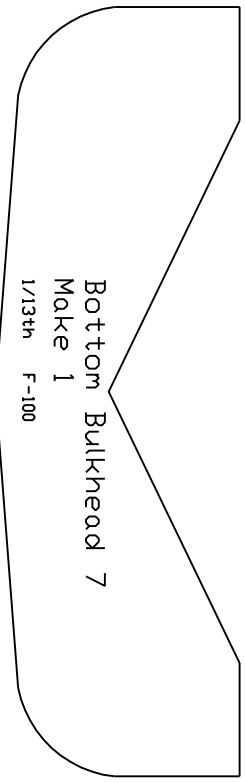
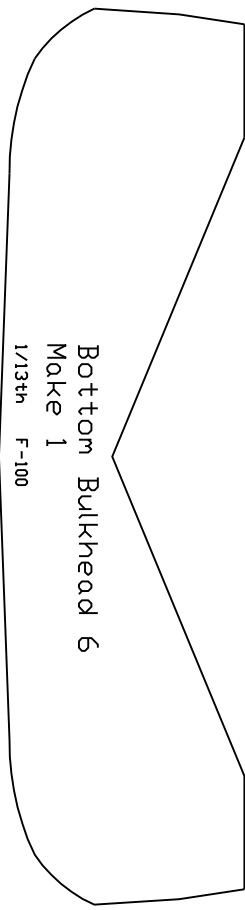
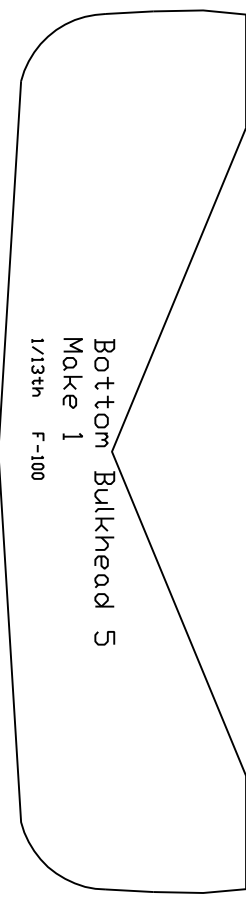
Front

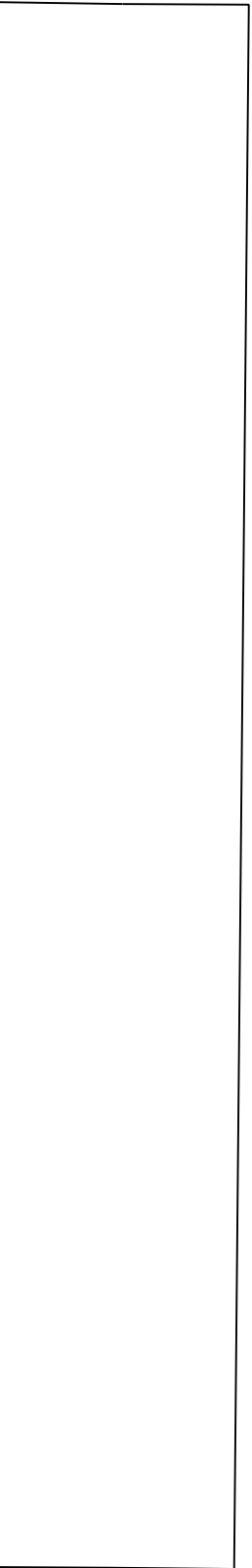
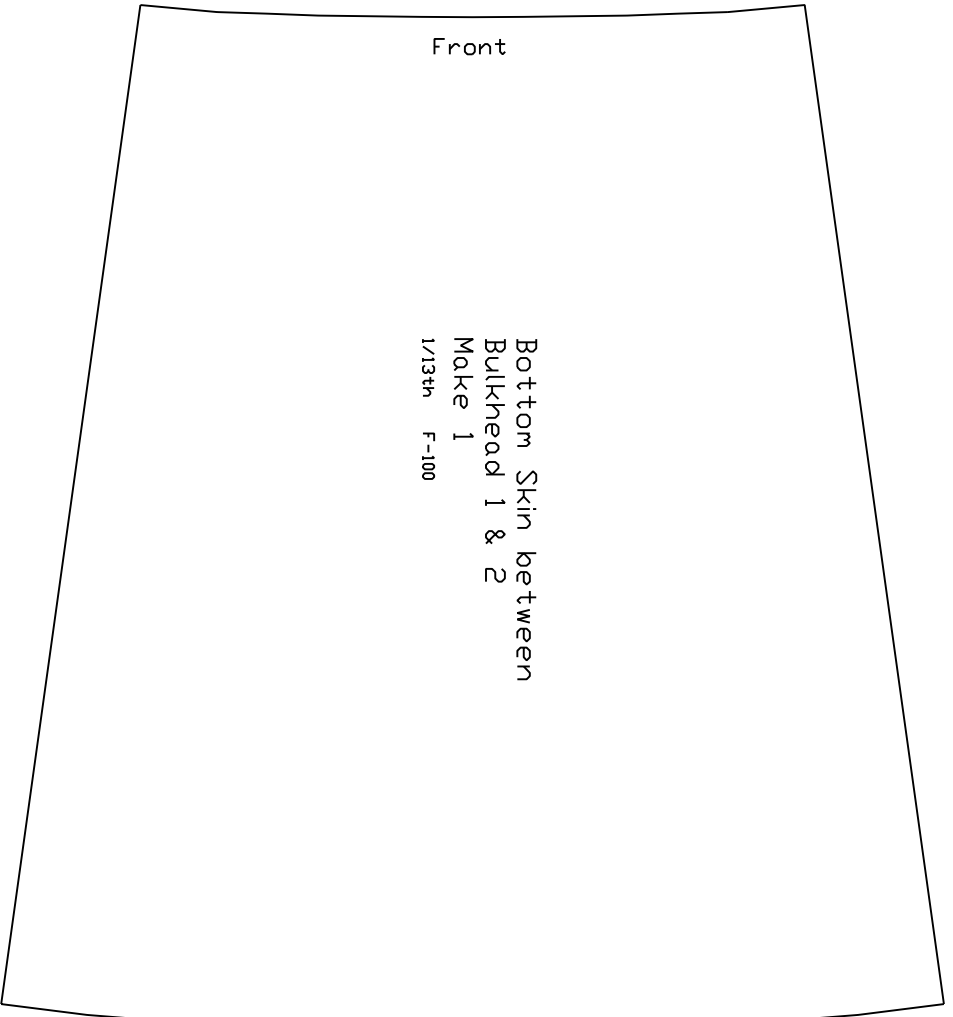
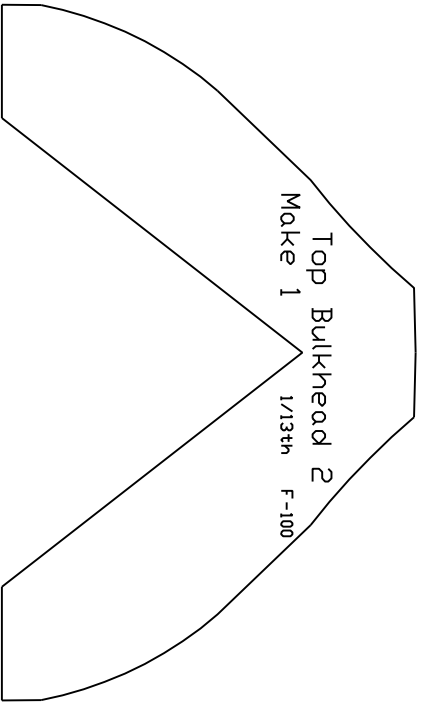
Bottom Skin between
Bulkhead 2 & 3
Make 1
1/13th F-100



Front

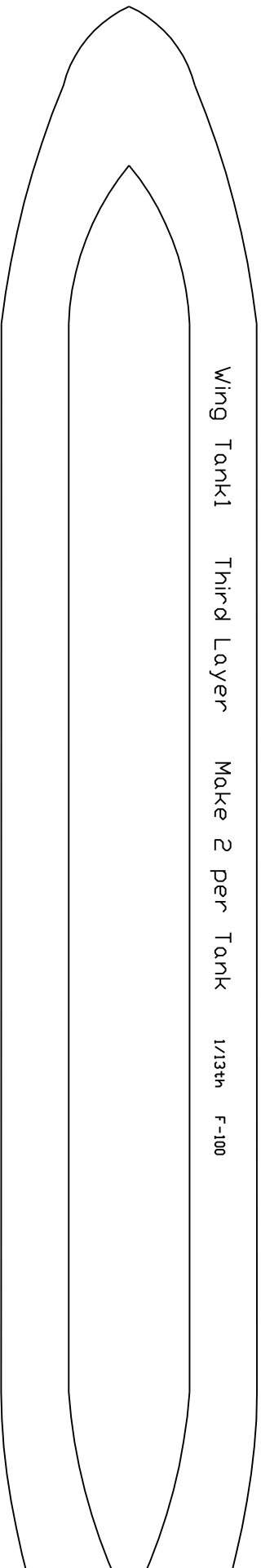
Bottom Skin between
Bulkhead 7 & 8
Make 1
1/13th F-100





Front

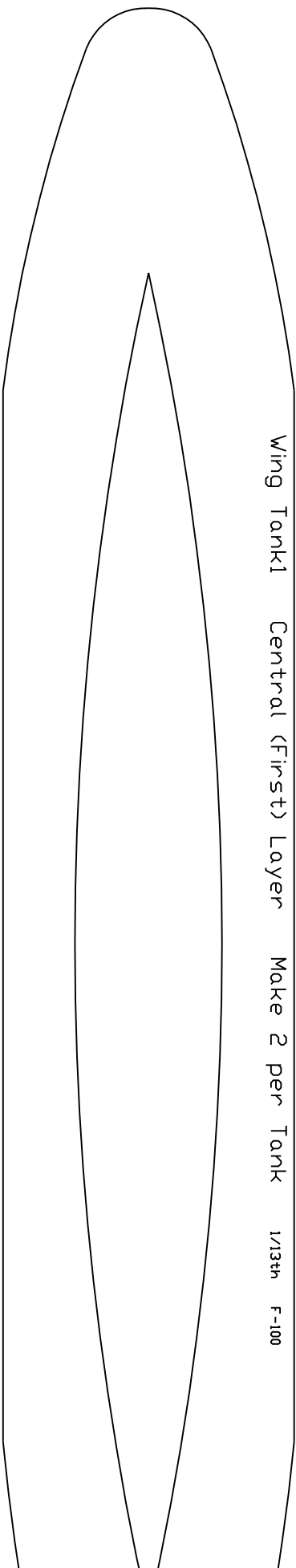
Bottom Skin between
Bulkhead 5 & 6
Make 1
1/13th F-100



Wing Tank1 Third Layer Make 2 per Tank 1/13th F-100



Wing Tank1 Second Layer Make 2 per Tank 1/13th F-100



Wing Tank1 Central (First) Layer Make 2 per Tank 1/13th F-100

Wing Tank2 Outer (Fifth) Layer Make 2 per Tank 1/13th F-100
Front Tip Sits back 58mm from First Layer Tip

Wing Tank1 Outer (Fourth) Layer Make 2 per Tank 1/13th F-100

Wing Tank2 Fourth Layer Make 2 per Tank 1/13th F-100
Front Tip Sits back 30mm from First Layer Tip

Wing Tank2 Central (First) Layer Make 1 per Tank 1/13th F-100

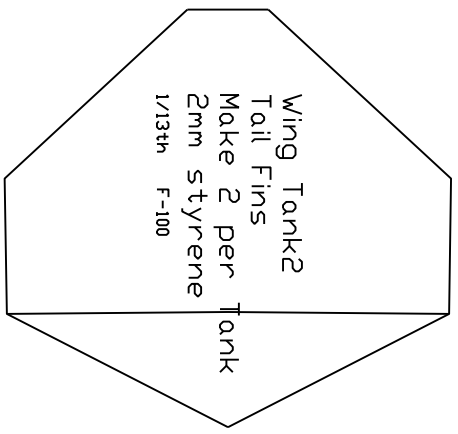
Wing Tank2 Second Layer Make 2 per Tank 1/13th F-100

Front Tip Sits back 0.5mm from First Layer Tip

Wing Tank2 Thir

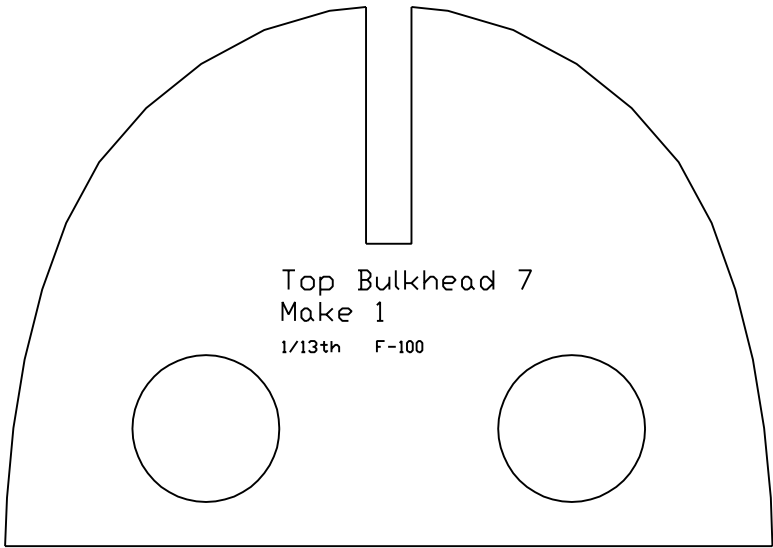
3th F-100

From

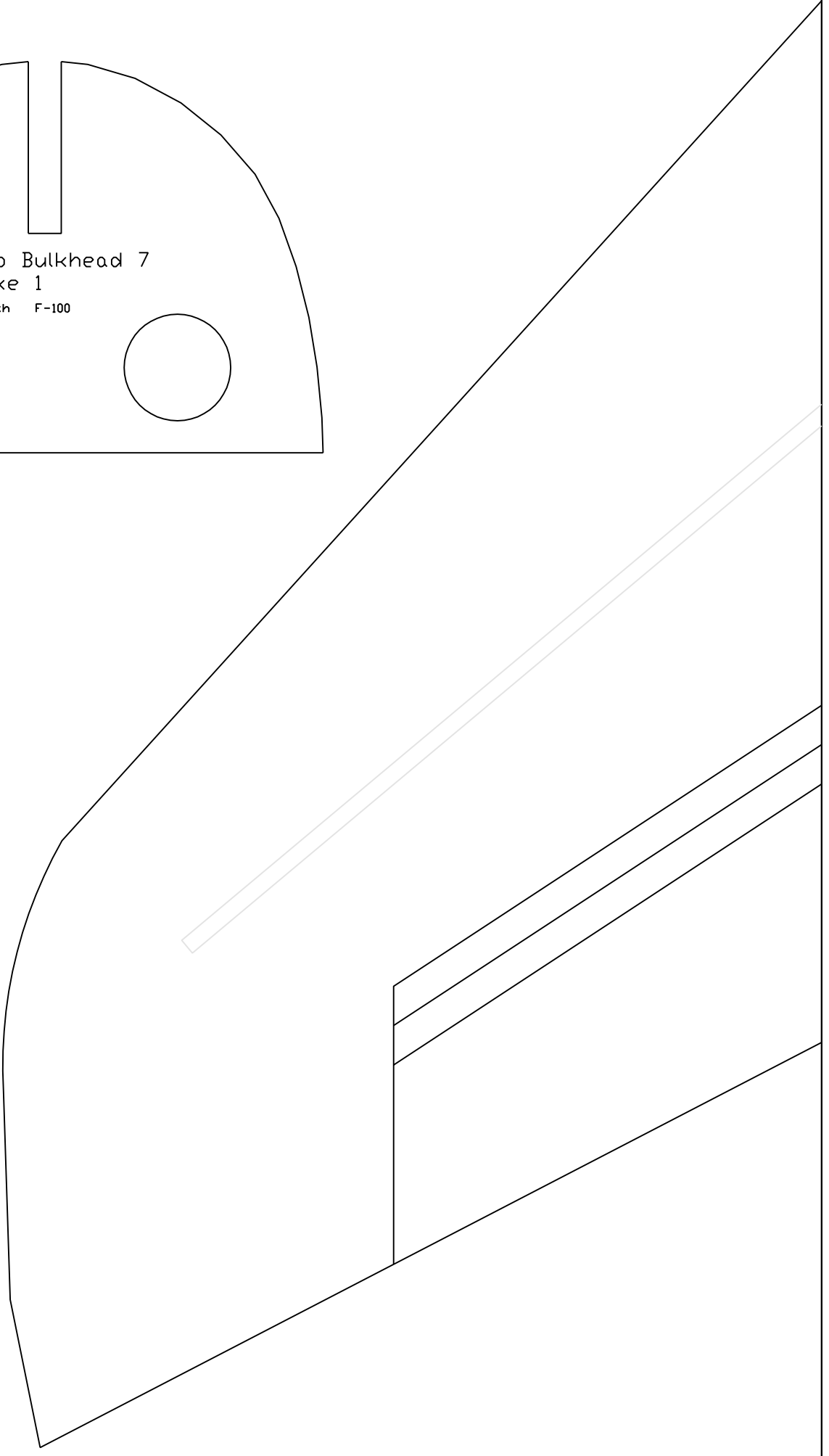


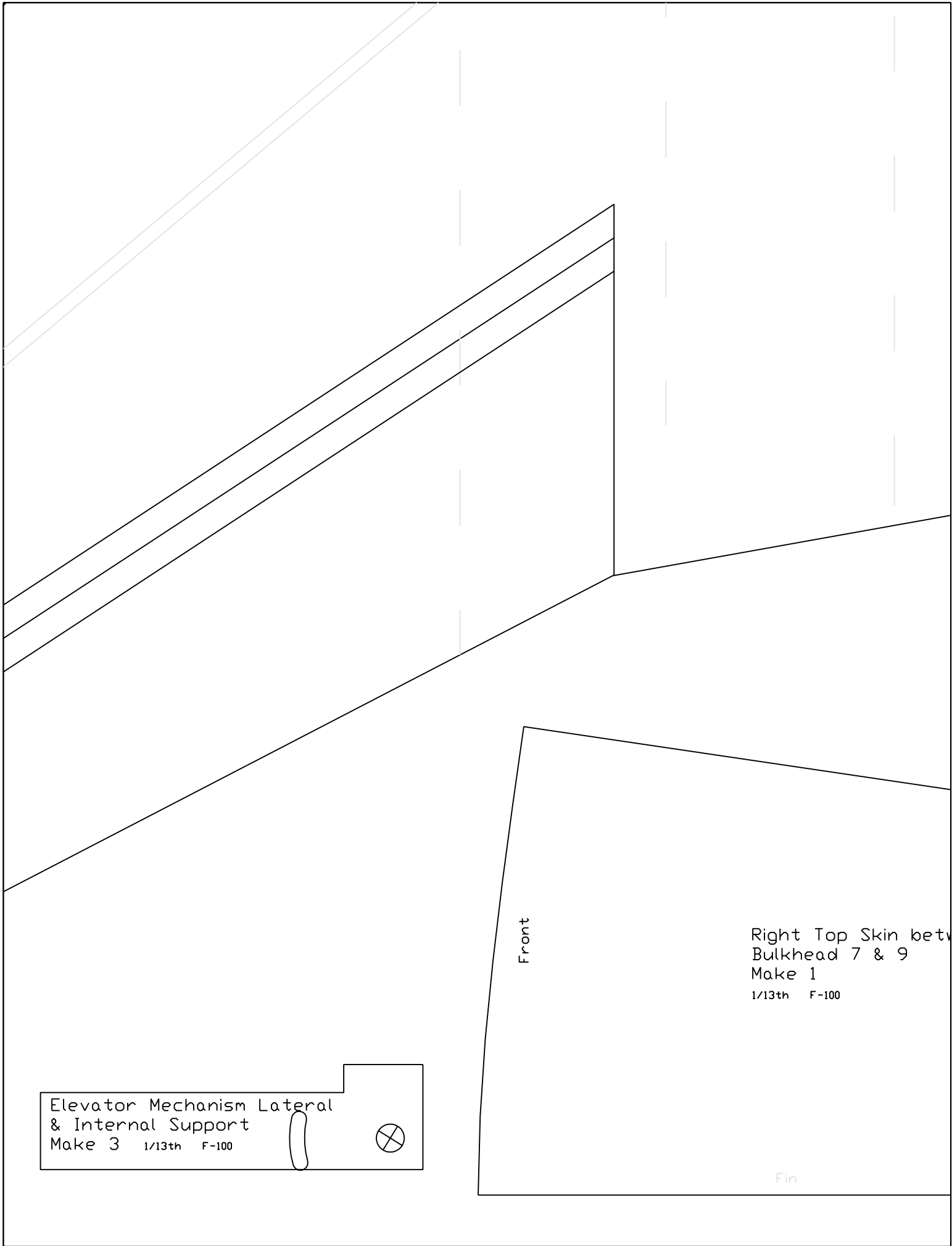
1st Layer Make 2 per Tank 1/13th F-100

2nd Layer Make 2 per Tank 1/13th F-100
Cut Tip Sits back 11mm from First Layer Tip



Top Bulkhead 7
Make 1
1/13th F-100





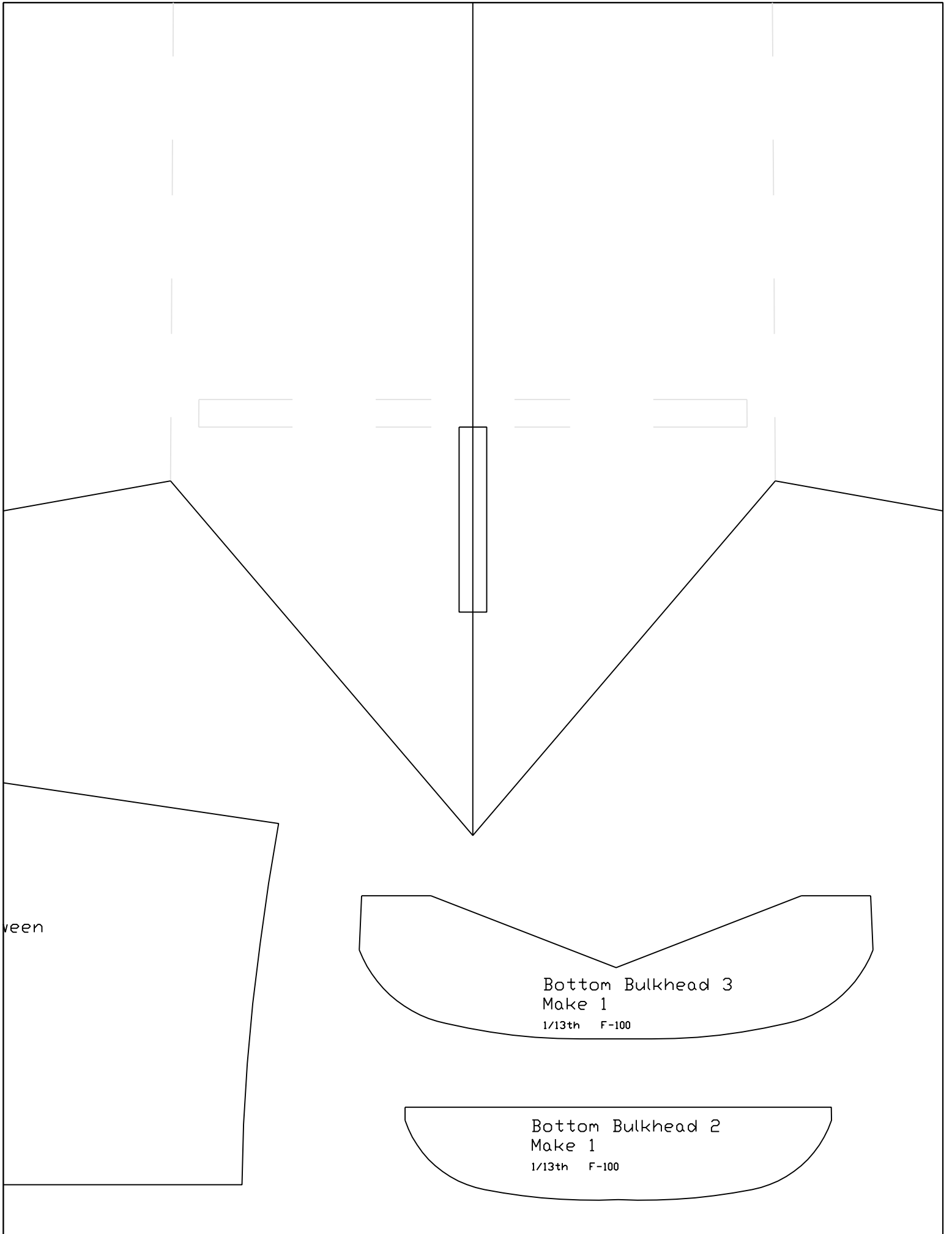
Elevator Mechanism Lateral
& Internal Support
Make 3 1/13th F-100



Front

Right Top Skin betw
Bulkhead 7 & 9
Make 1
1/13th F-100

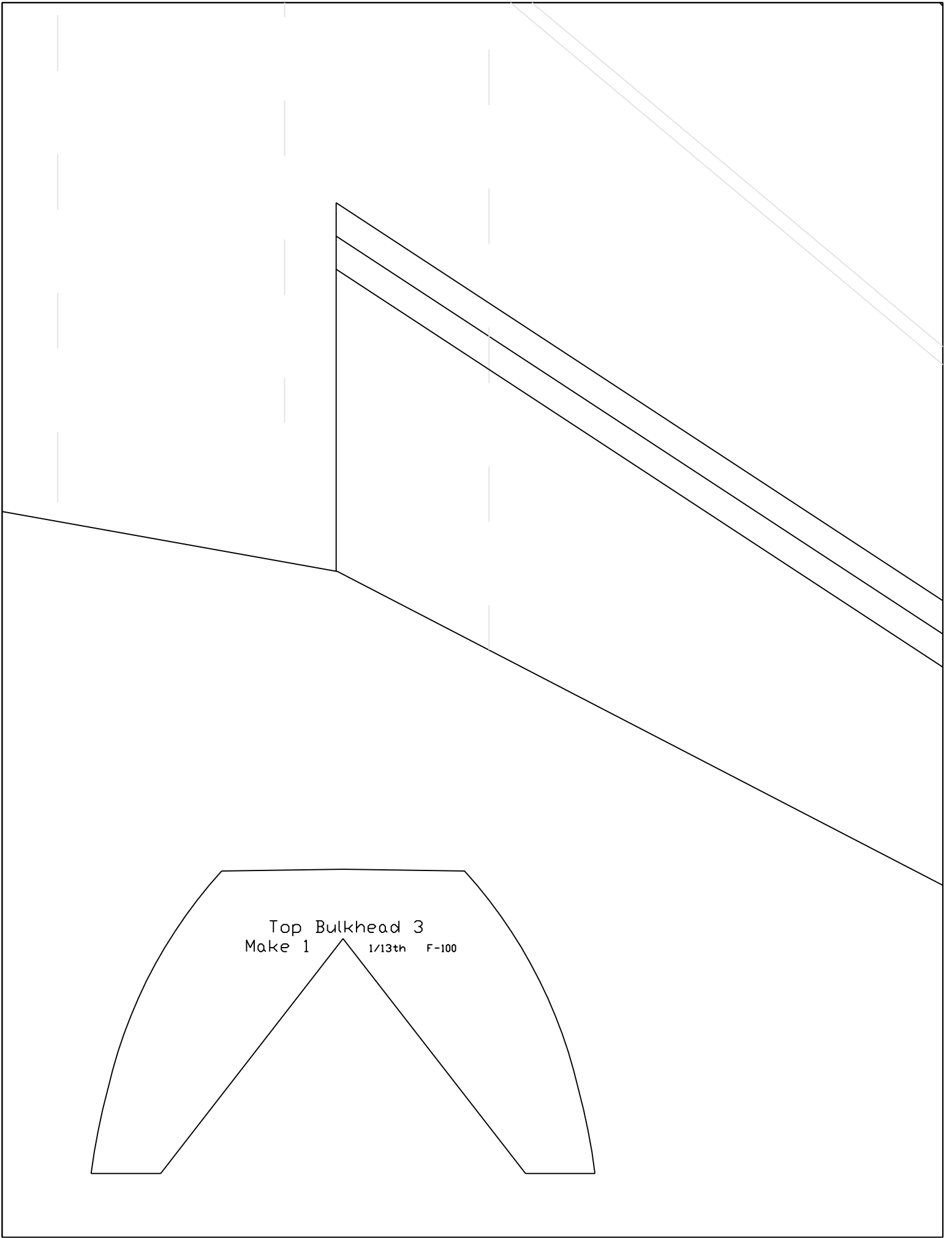
Fin



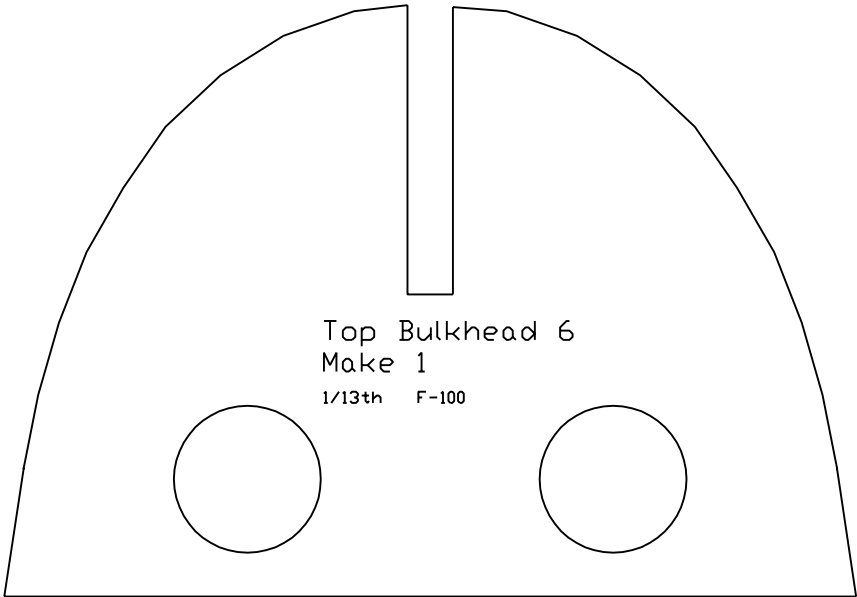
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Bottom Bulkhead 3
Make 1
1/13th F-100

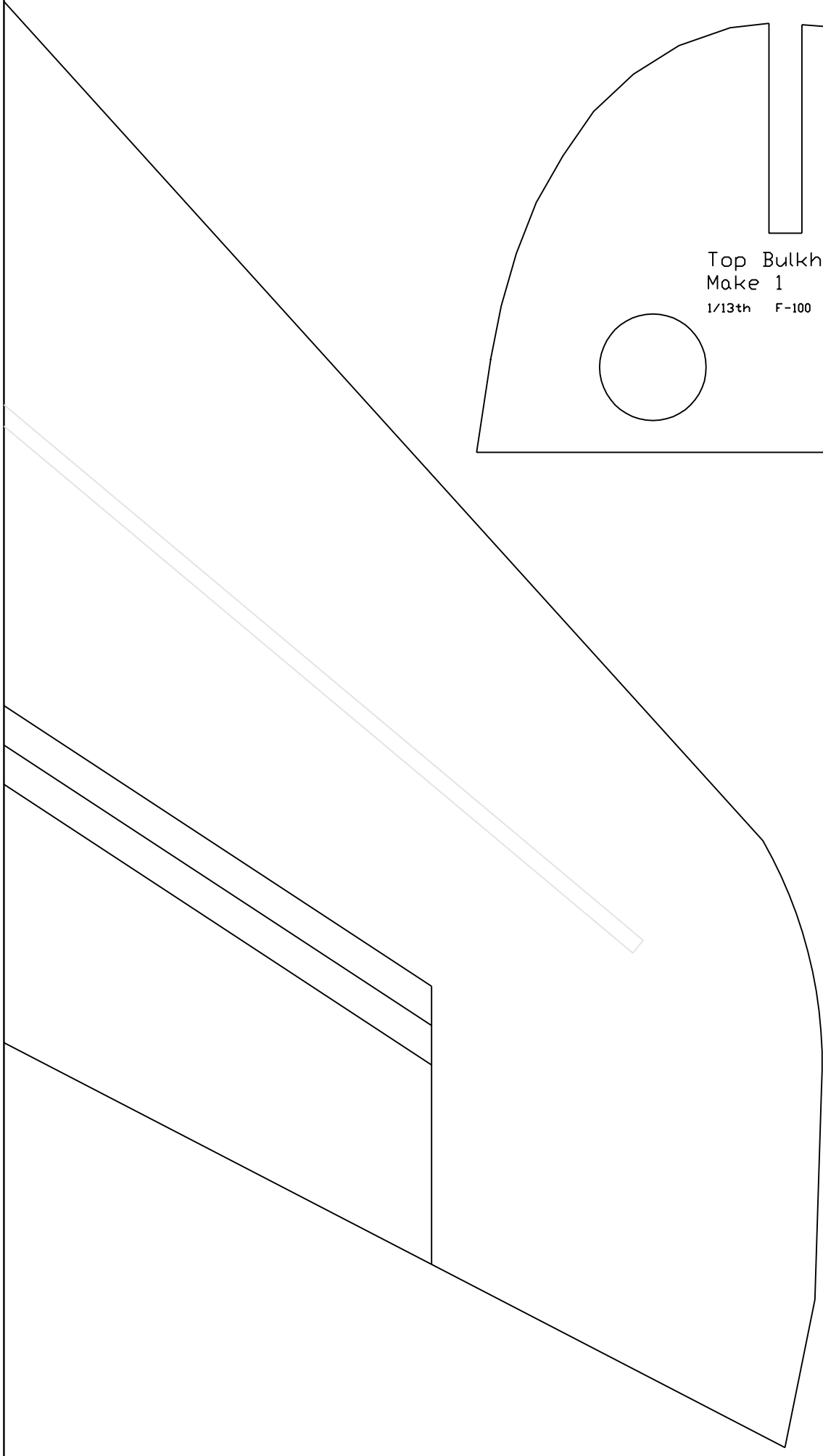
Bottom Bulkhead 2
Make 1
1/13th F-100



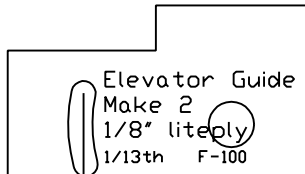
Top Bulkhead 3
Make 1 1/13th F-100



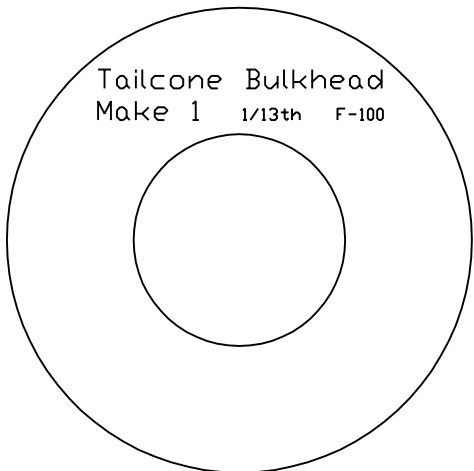
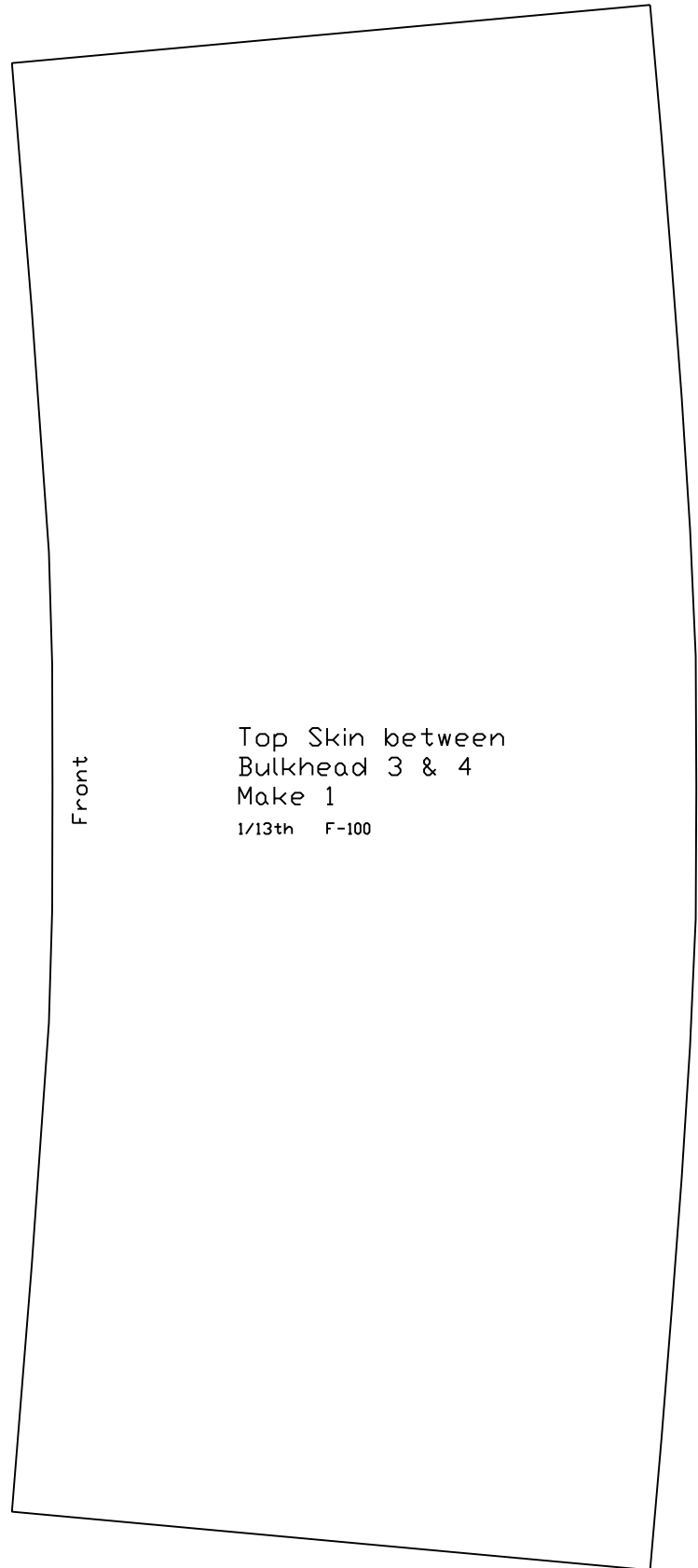
Top Bulkhead 6
Make 1
1/13th F-100



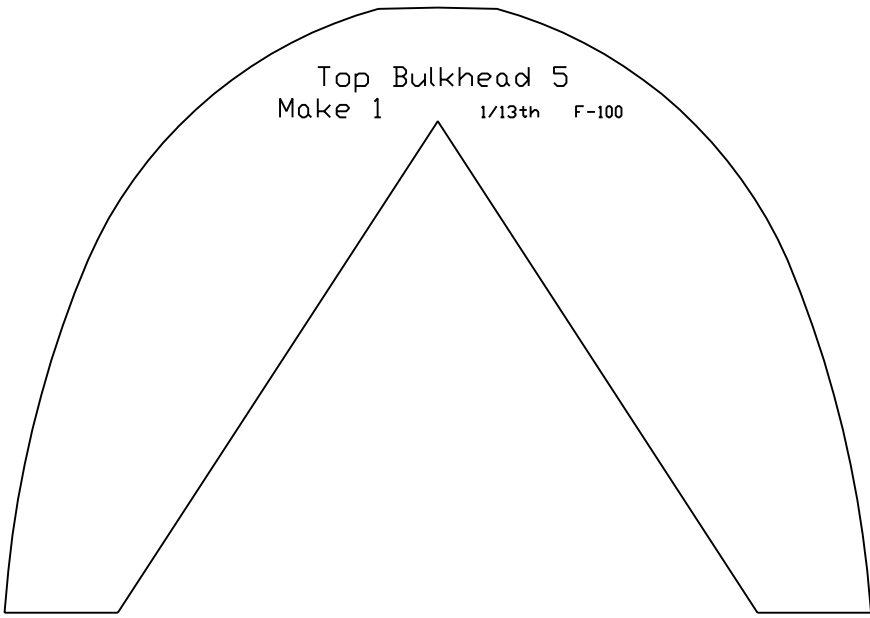
Bottom Skin Between Bulkhead
7 & 8, Forward of Elevator
Mechanism
Make 2
3mm Depron 1/13th F-100

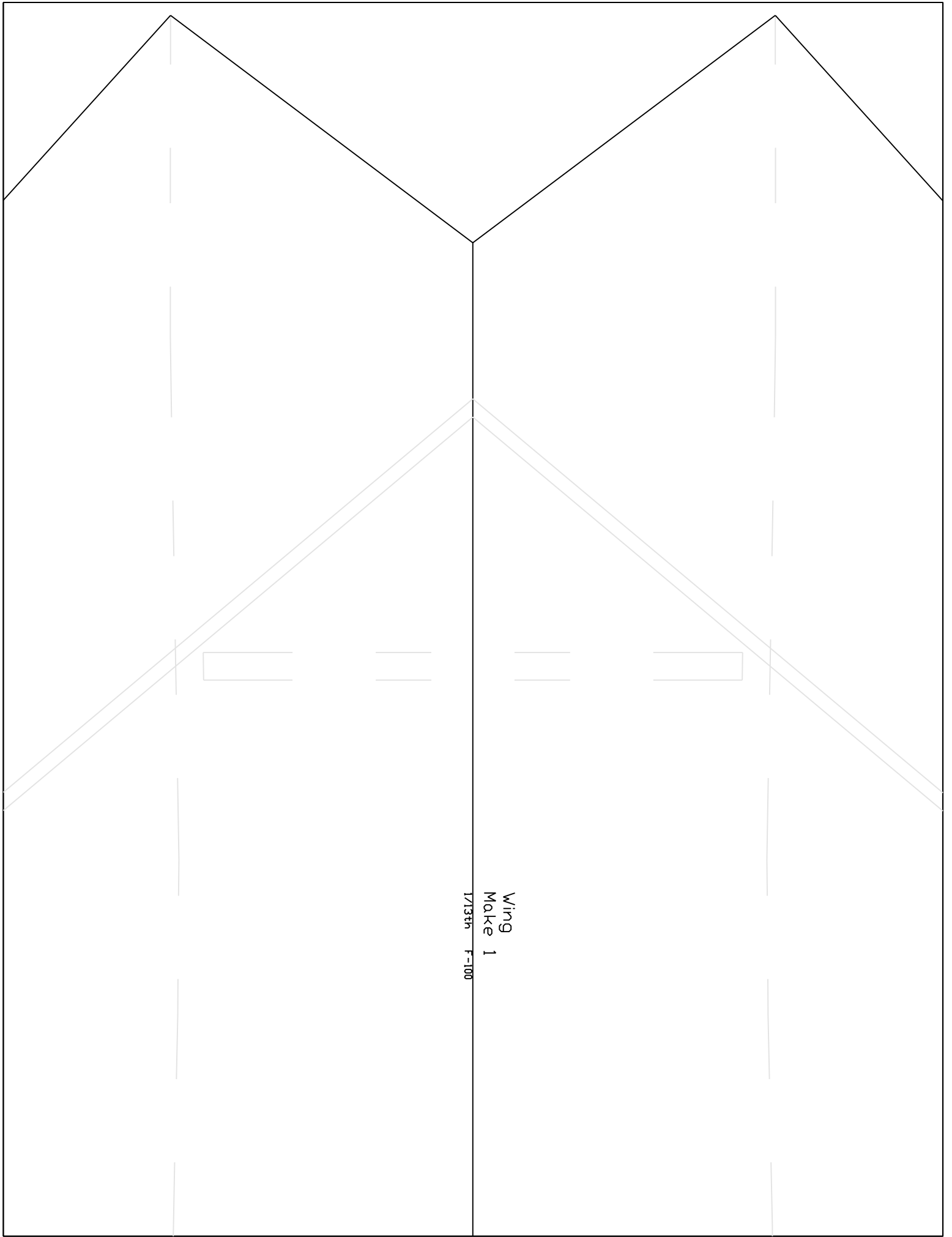


Note: need to elevate forward half by 3mm at slot to
achieve correct angle for drilling holes



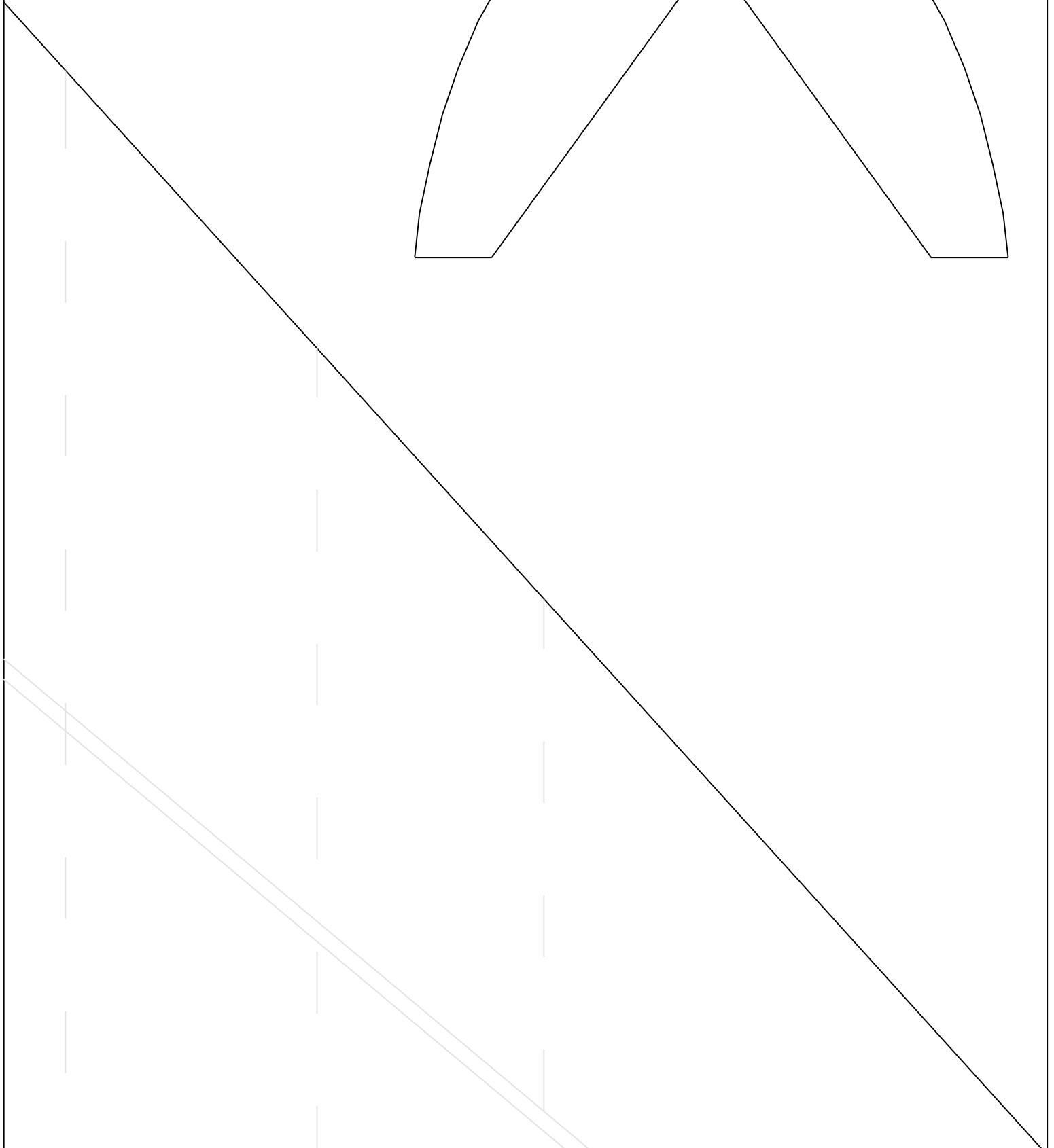
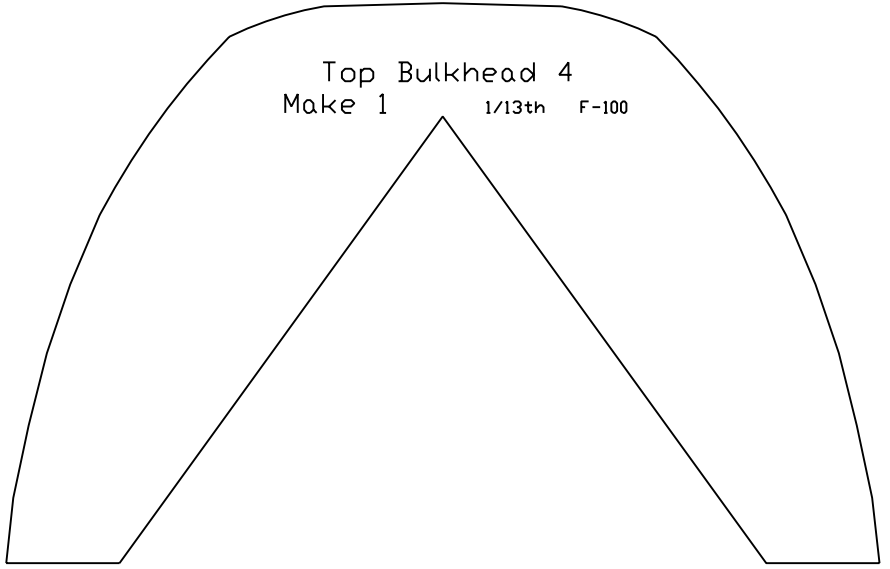
Top Bulkhead 5
Make 1 1/13th F-100

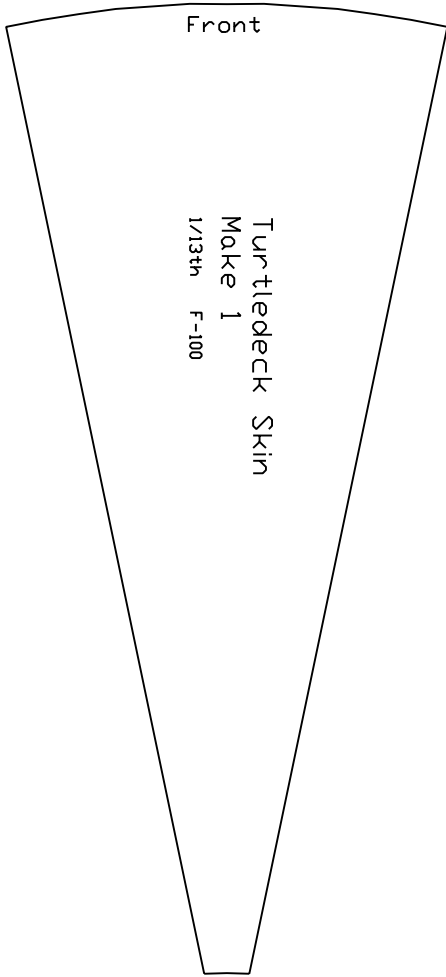




Wing
Make 1
1/13th F-100

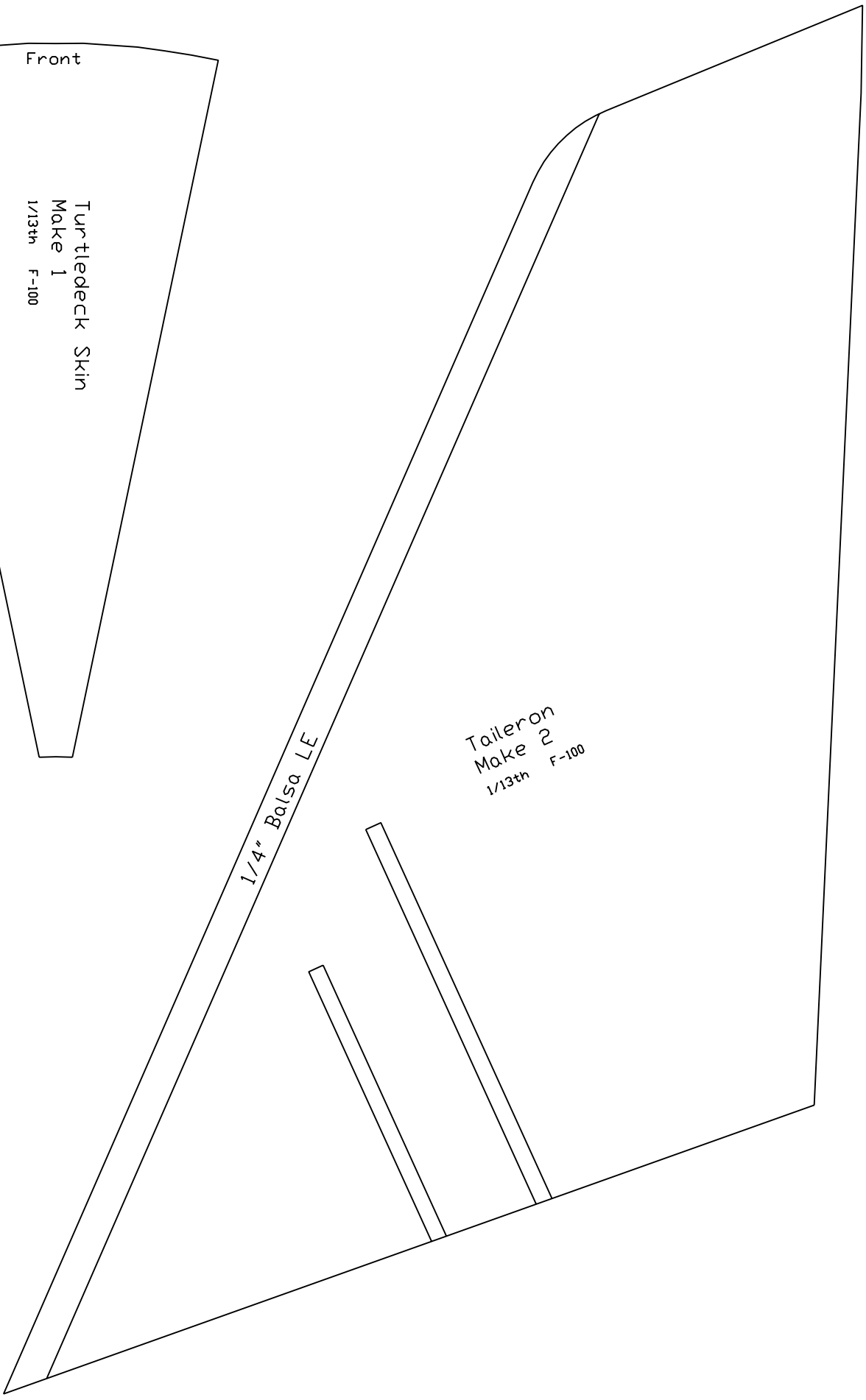
Top Bulkhead 4
Make 1 1/13th F-100





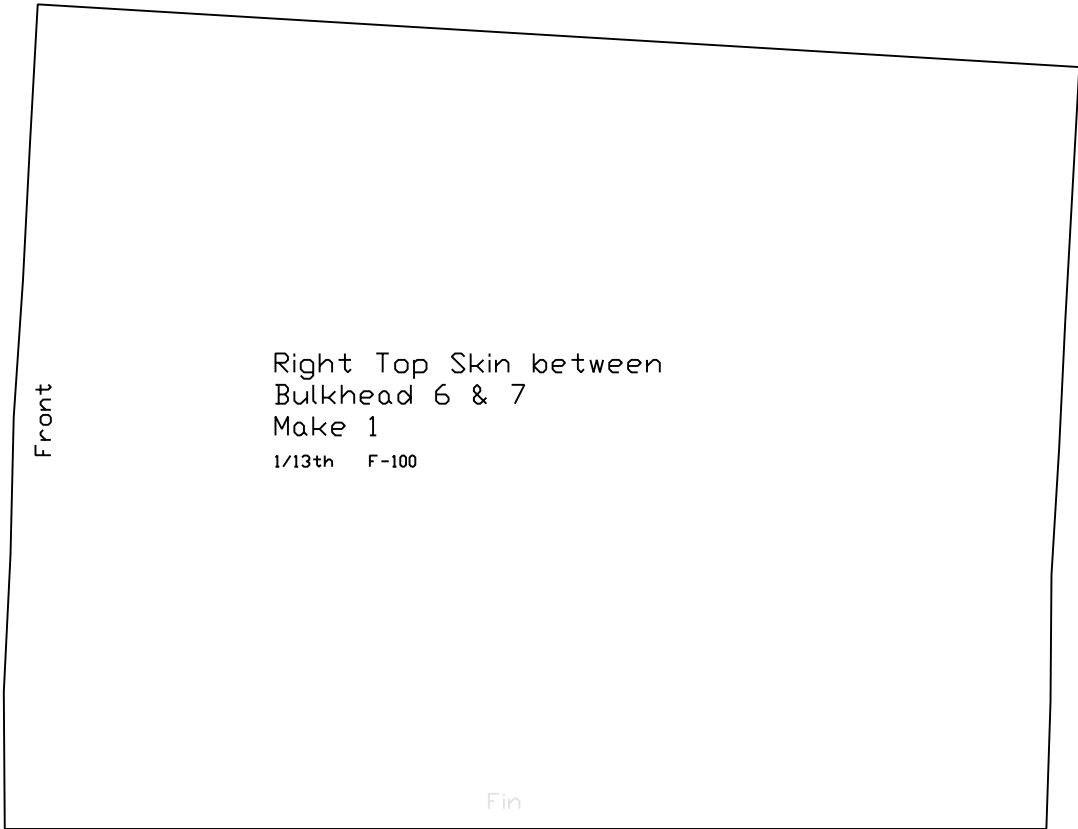
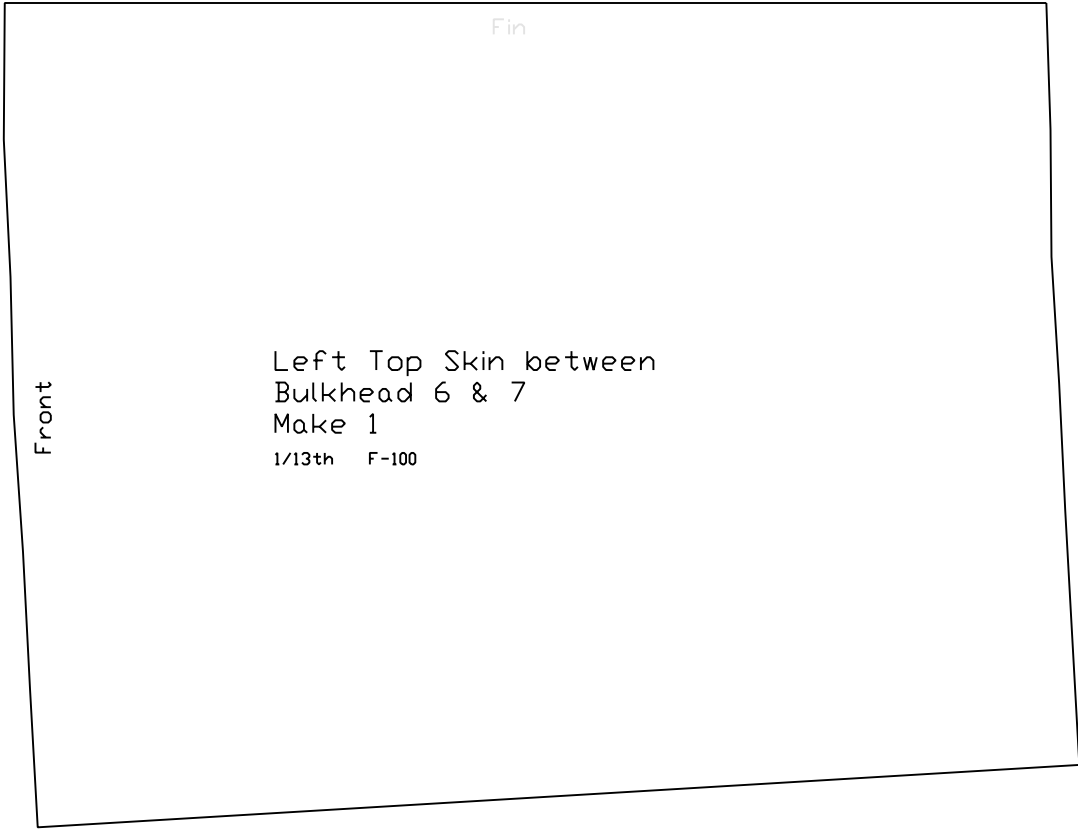
Front

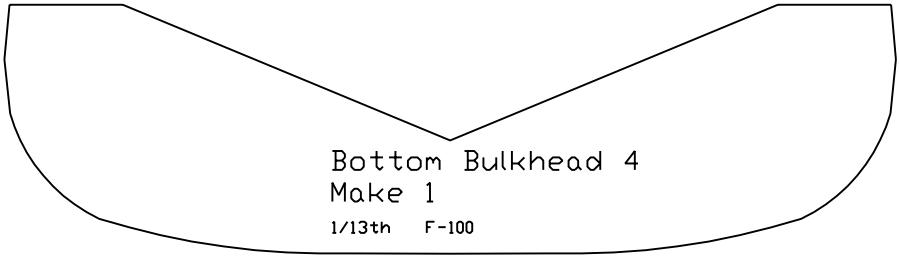
Turtledeck Skin
Make 1
1/13th F-100



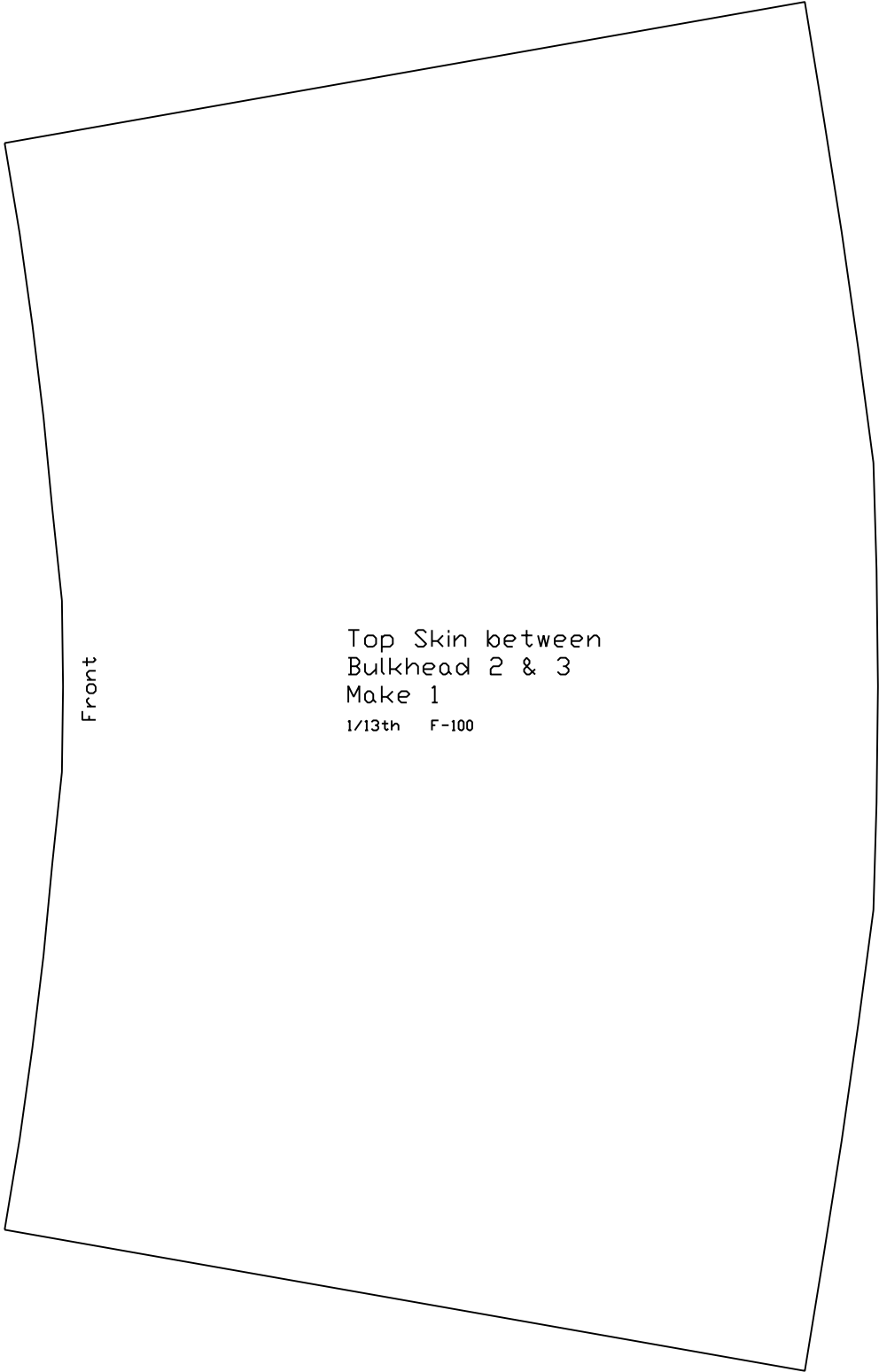
1/4\" Balsa LE

Taileron
Make 2
1/13th F-100



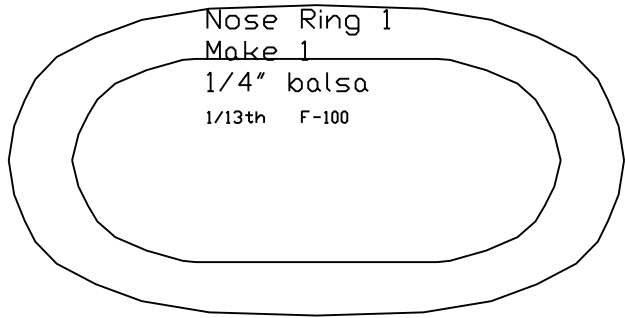


Bottom Bulkhead 4
Make 1
1/13th F-100

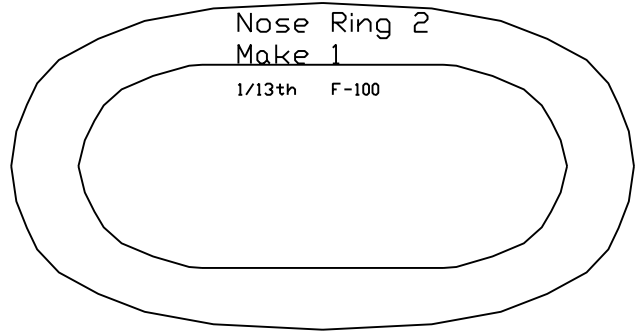


Front

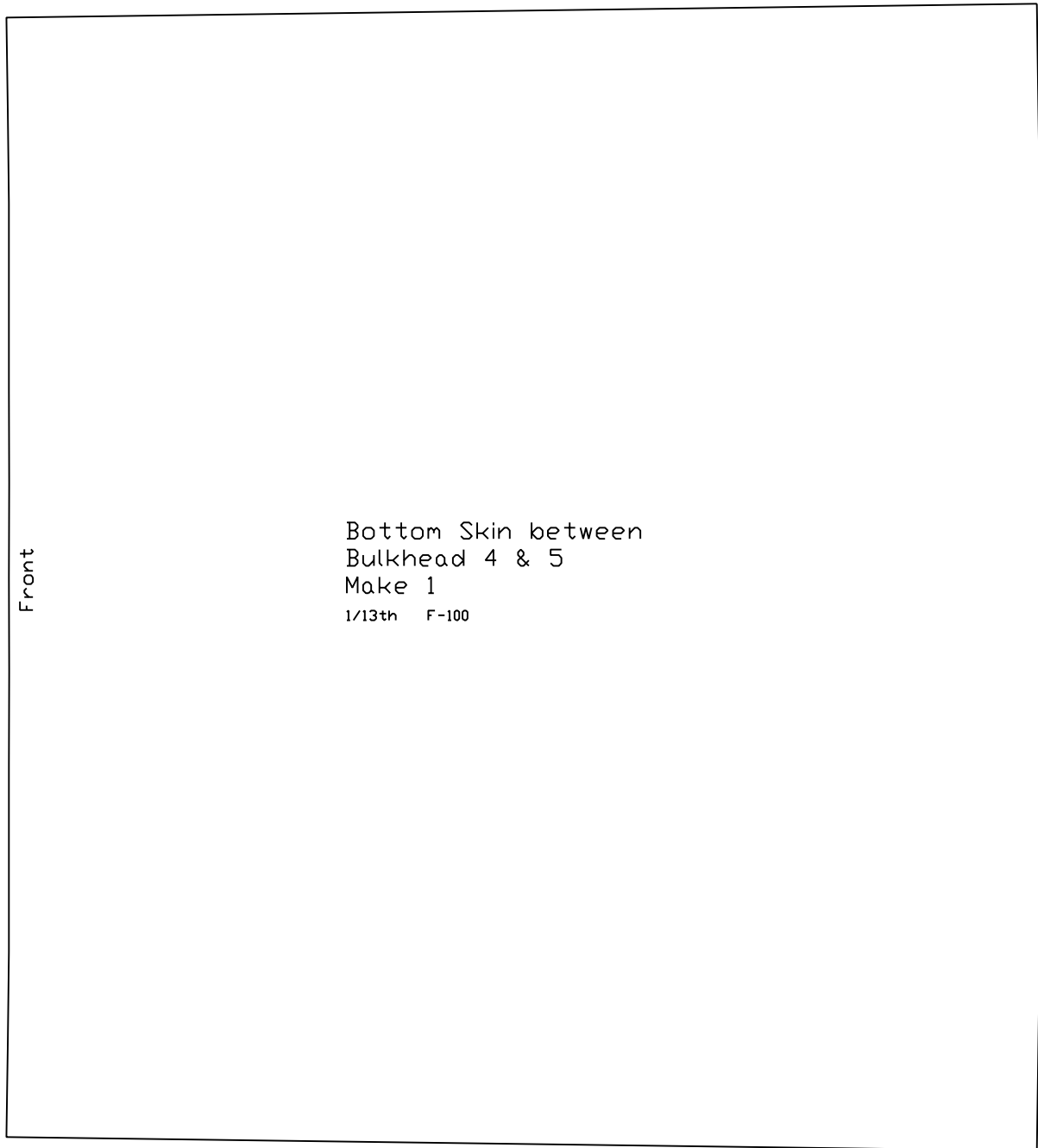
Top Skin between
Bulkhead 2 & 3
Make 1
1/13th F-100



Nose Ring 1
Make 1
1/4" balsa
1/13th F-100

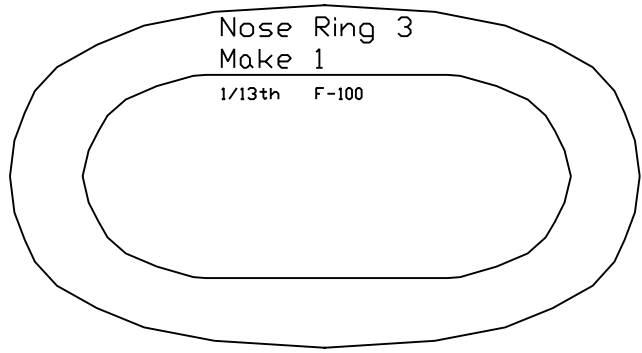


Nose Ring 2
Make 1
1/13th F-100



Front

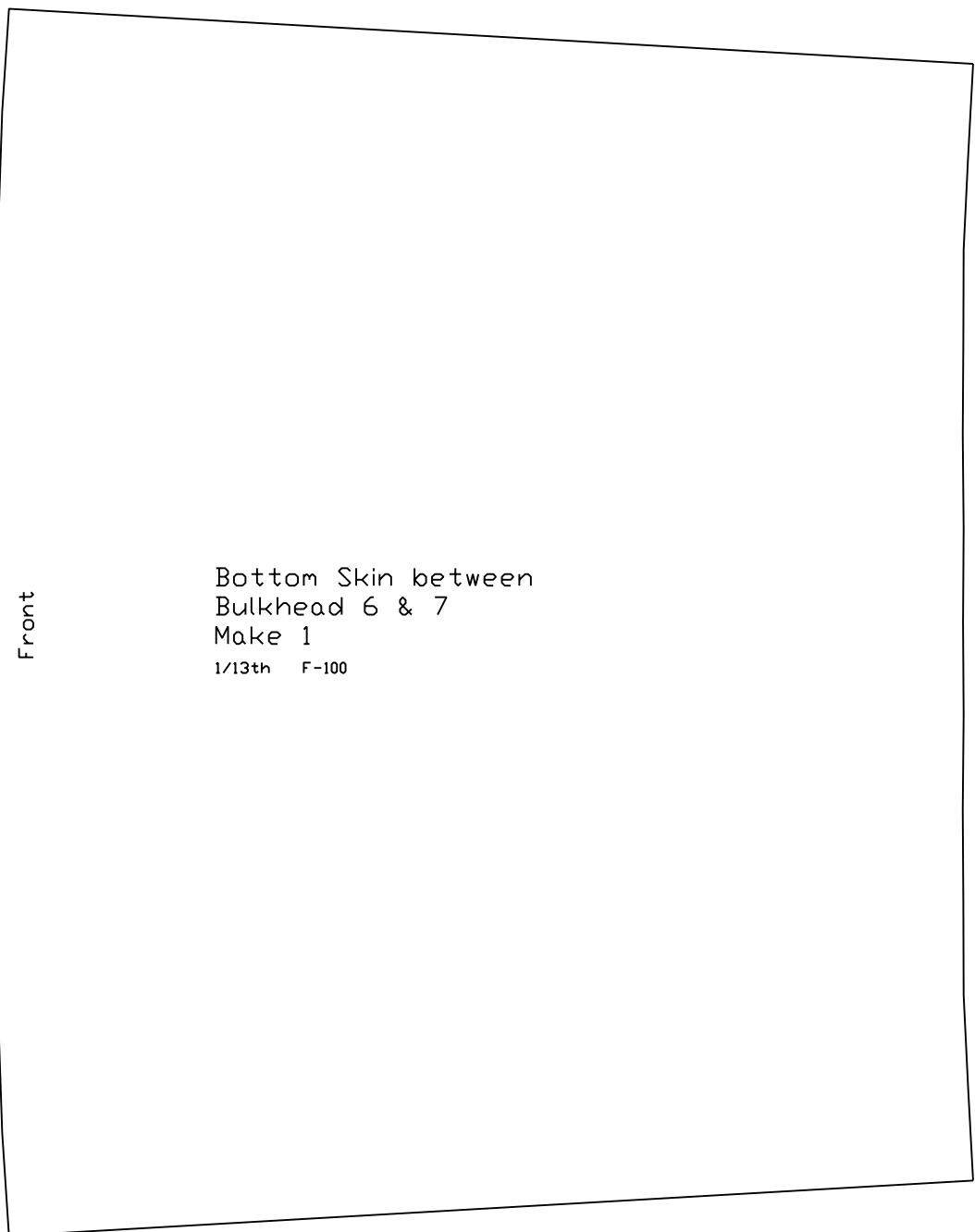
Bottom Skin between
Bulkhead 4 & 5
Make 1
1/13th F-100



Nose Ring 3

Make 1

1/13th F-100



Front

Bottom Skin between
Bulkhead 6 & 7

Make 1

1/13th F-100

Front

Top Skin between
Bulkhead 4 & 5
Make 1
1/13th F-100