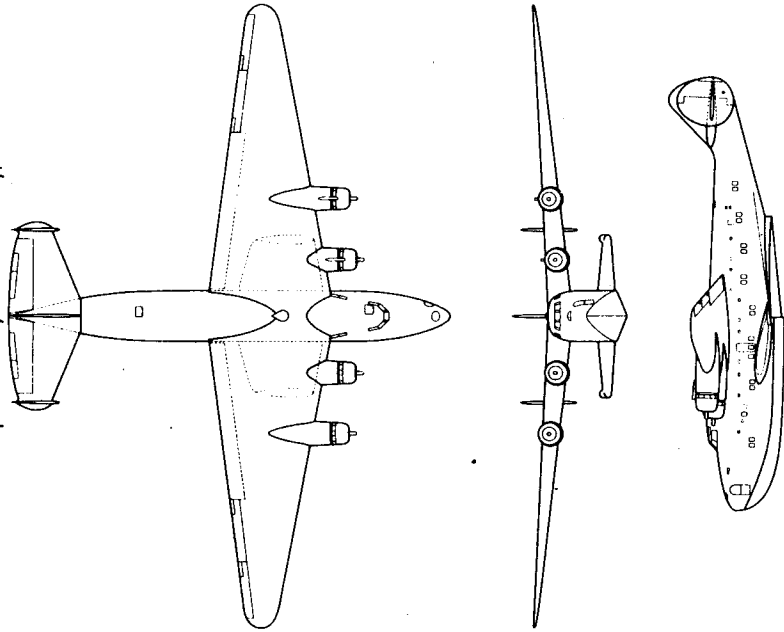


This plan is identical to the one used in the Model Building Program of the U. S. Office of Education sponsored by the U. S. Navy, Bureau of Aeronautics.

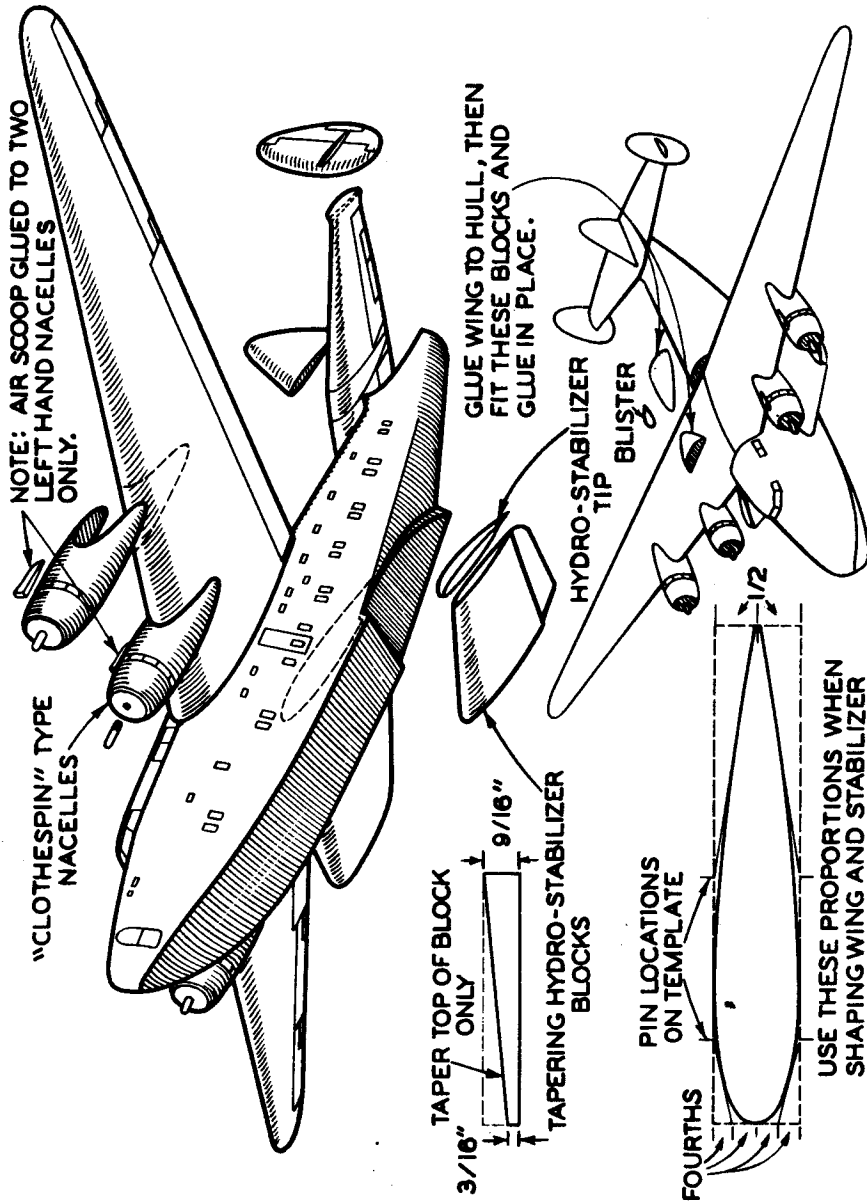
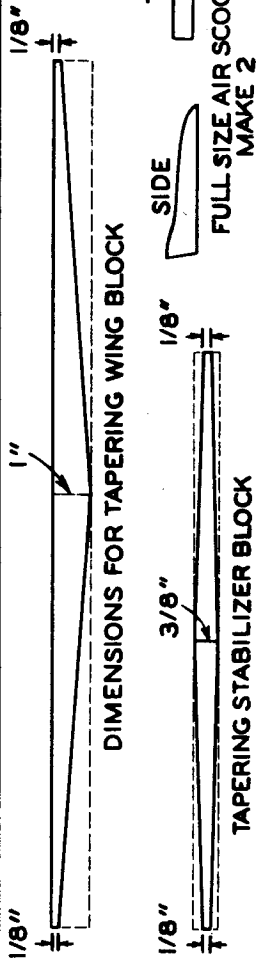


BOEING CLIPPER

A Pan American Airways' trans-oceanic flying-boat carrying 74 passengers and a crew of 10. Hull has two decks and full accommodations for long-range passenger service. Span 152', Length 106'.

Identification

High-wing monoplane with wide wing tapered to thin, rounded tips. Wing has considerable dihedral. Four engine nacelles mounted on wings in swept-back arrangement. Deep, two-step hull having many windows. Large stabilizer-elevator with curved trailing edge. Center fin has swept-back leading edge while tip fin-rudders are rounded.



MODEL

MODEL

BOEING CLIPPER

PAN AMERICAN FLYING BOAT

FINAL ASSEMBLY

SPAN 25-11/32" SERIAL NO. C-4 DATE 4-15-42

COMET MODEL AIRPLANE & SUPPLY CO., INC.

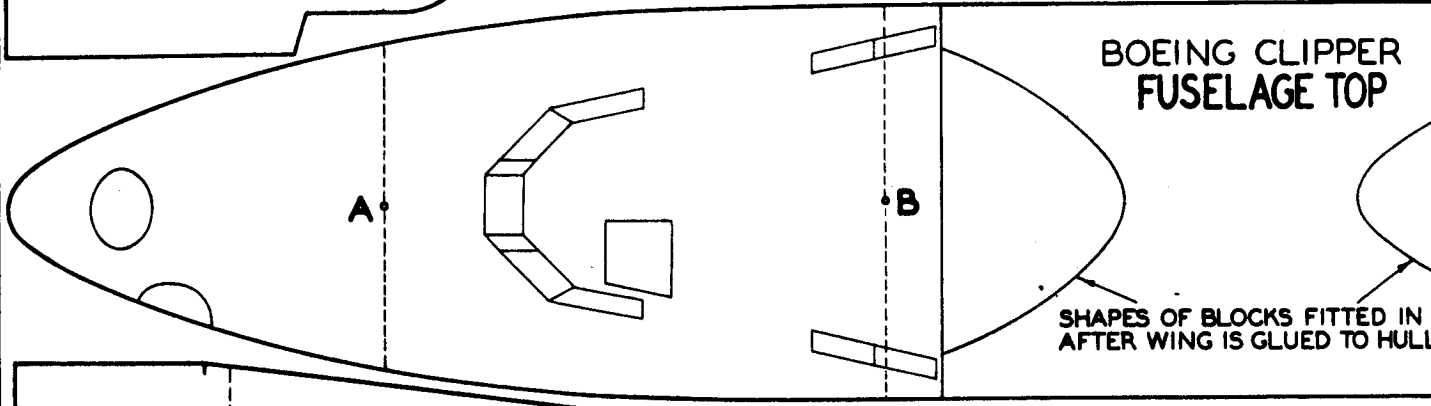
Fuselage	2 3/8 x 3 1/2 x 17/8
Wing	1 x 5 x 25 1/4
Nacelles	4 - 1 1/4 x 1 1/4 x 3 1/2
Hydro-Stabilizer	
Floats	2 - 3/8 x 3 1/2 x 2 1/4
Float Tips	2 - 1/2 x 3/8 x 2 1/2
Stabilizer	3/8 x 3 x 8
Fins	1/2 x 2 1/2 x 8
Prop. Hubs	1/8 dowel

BOEING CLIPPER
WING DIHEDRAL GAUGE

BOEING CLIPPER
STABILIZER AIRFOIL TEMPLATE

TOP
AND
BOTTOM

CLIPPER F
HYDRO-STAB TIP



BOEING CLIPPER
WING
1" THICK

WING BLOCK,
HALF OF WING,
AND TRACE
VALF

POSITION OF BLISTER

POSITION OF NACELLES

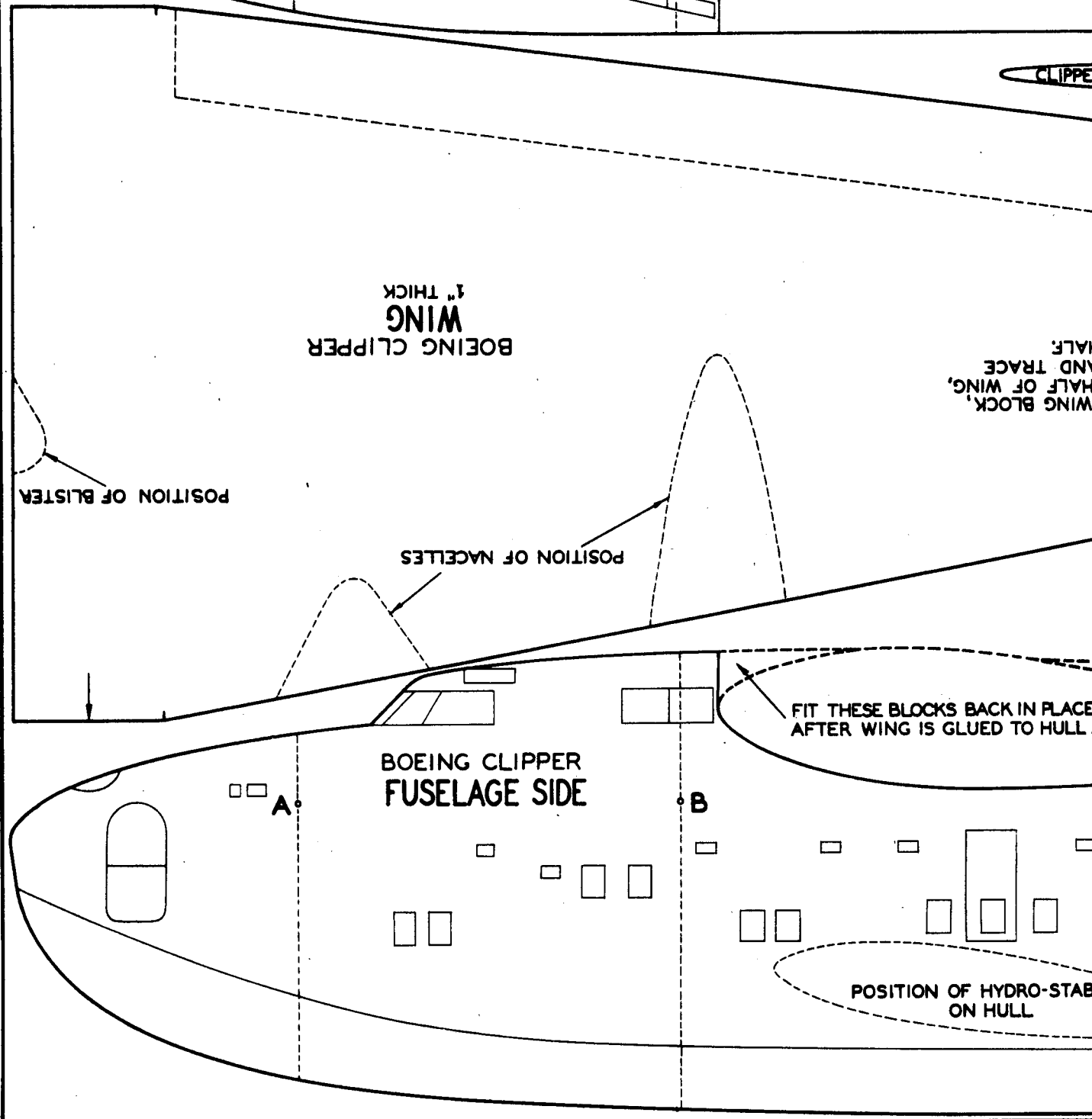
FIT THESE BLOCKS BACK IN PLACE
AFTER WING IS GLUED TO HULL

BOEING CLIPPER
FUSELAGE SIDE

A

B

POSITION OF HYDRO-STAB
ON HULL



UPPER
FOIL TEMPLATE

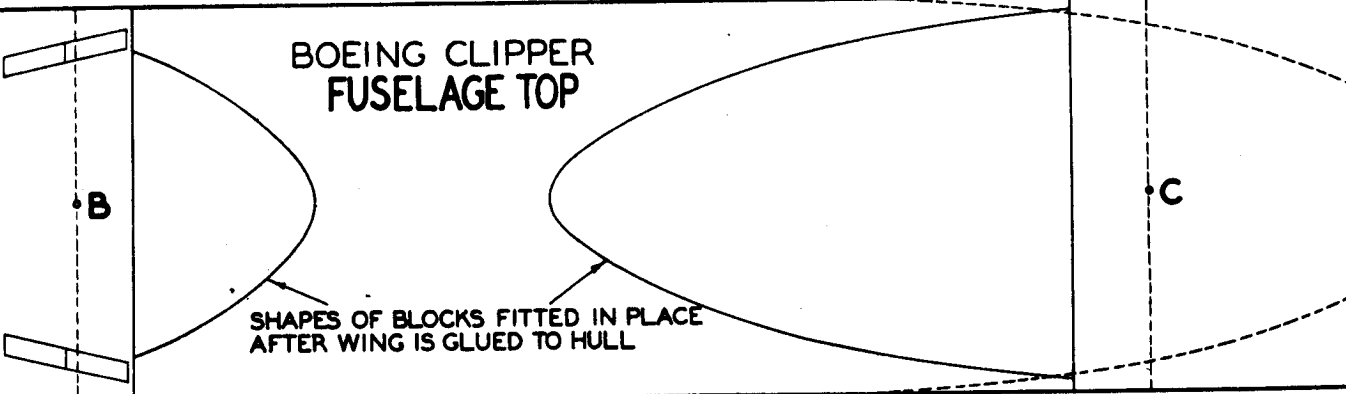
TOP
AND
BOTTOM

CLIPPER F
HYDRO-STAB TIP SIDE

CLIPPER F
HYDRO-STAB TIP TOP

HY

BOEING CLIPPER FUSELAGE TOP



CLIPPER HYDRO-STAB. END

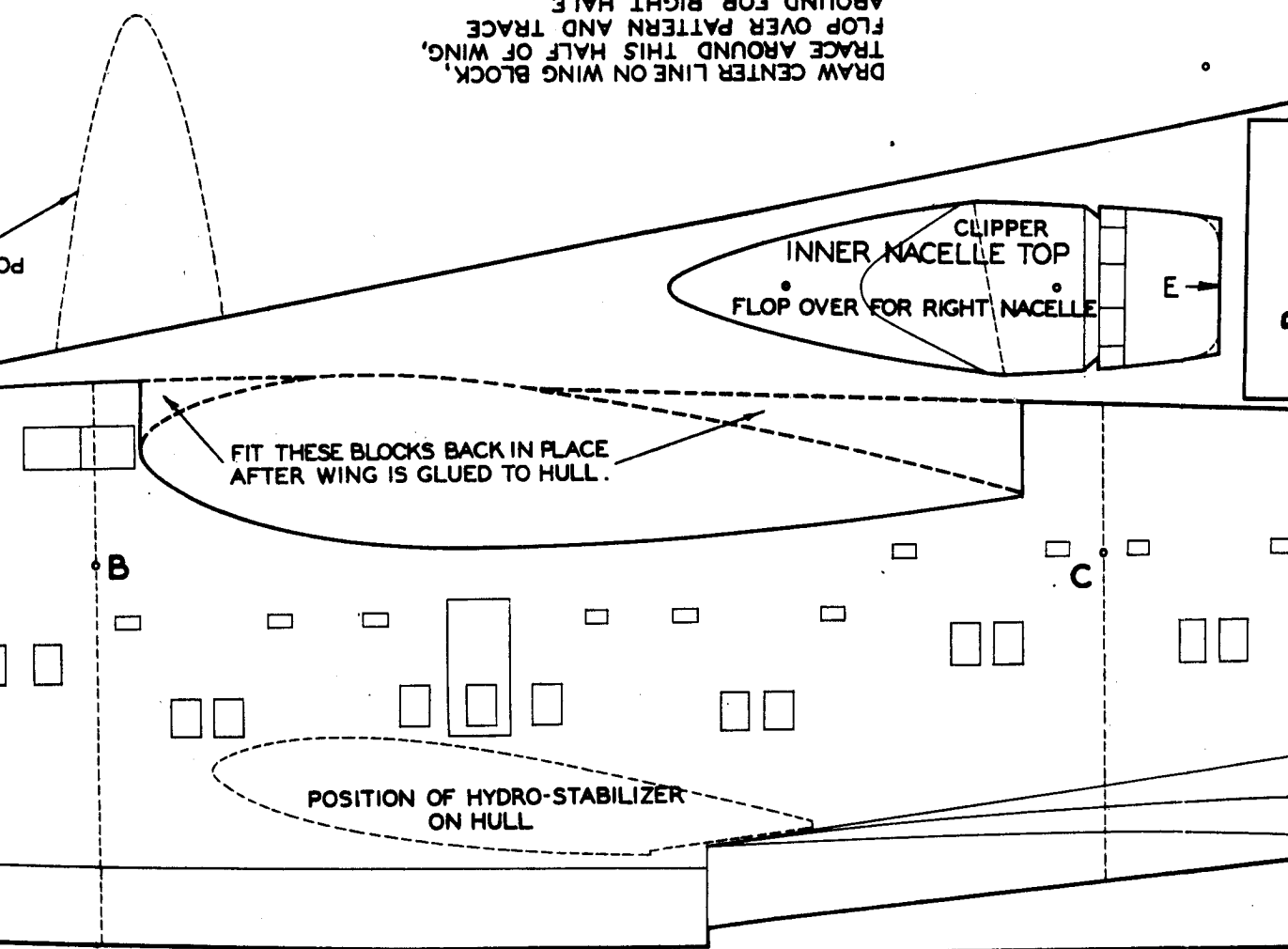
CLIPPER
OUTER NACELLE
FLOP OVER FOR RIGHT

DRAW CENTER LINE ON WING BLOCK,
TRACE AROUND THIS HALF OF WING,
FLOP OVER PATTERN AND TRACE
AROUND FOR RIGHT HALF.

CLIPPER
INNER NACELLE TOP
FLOP OVER FOR RIGHT NACELLE

FIT THESE BLOCKS BACK IN PLACE
AFTER WING IS GLUED TO HULL.

POSITION OF HYDRO-STABILIZER
ON HULL



ER F
STAB. TIP TOP

CLIPPER HYDRO-STABILIZER CENTER TEMPLATE

CLIPPER
HYDRO-STAB.
TIP

TOP AND BOTTO



HULL LINE AT "Z"

C

D

CLIPPER
OUTER NACELLE TOP
FLOP OVER FOR RIGHT NACELLE

E

A

SECTION TH
STABILIZ

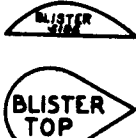
POSITION OF FIN

CLIPPER

CLIPPER

CLIPPER
NACELLE TOP
RIGHT NACELLE

E



CLIPPER

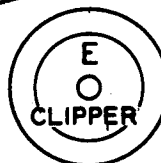
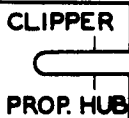
E

CLIPPER
INNER
NACELLE

C

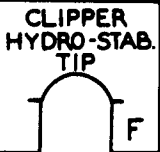
D

"Z" LINE



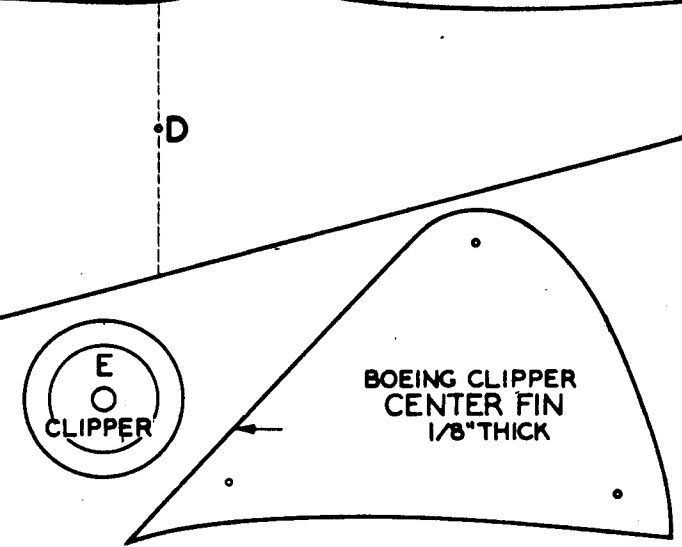
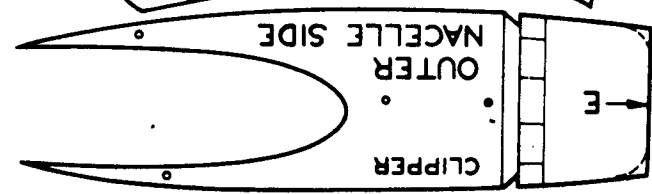
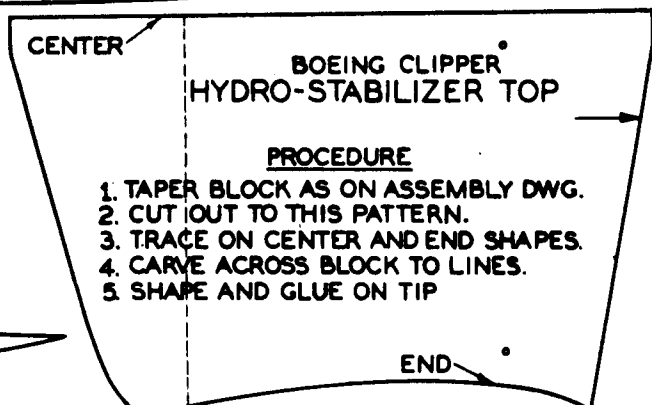
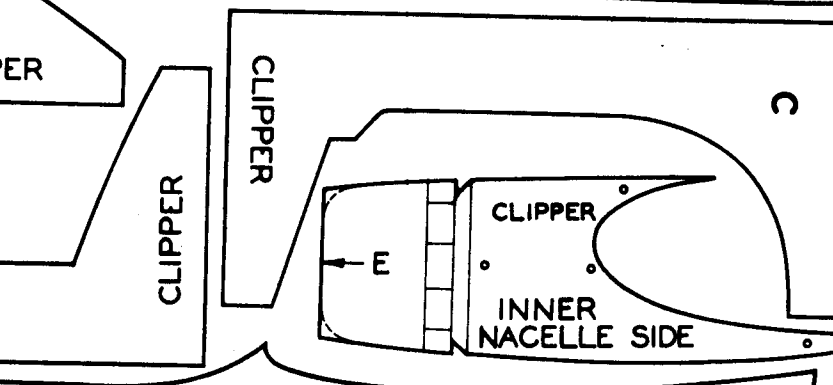
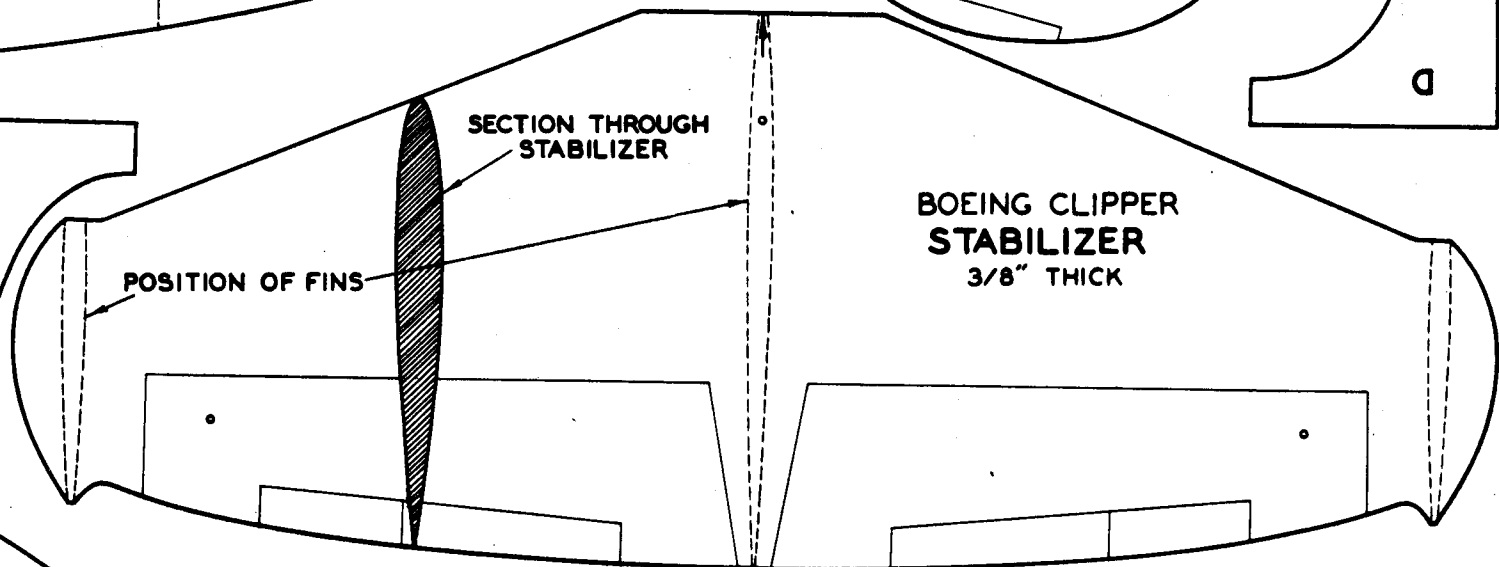
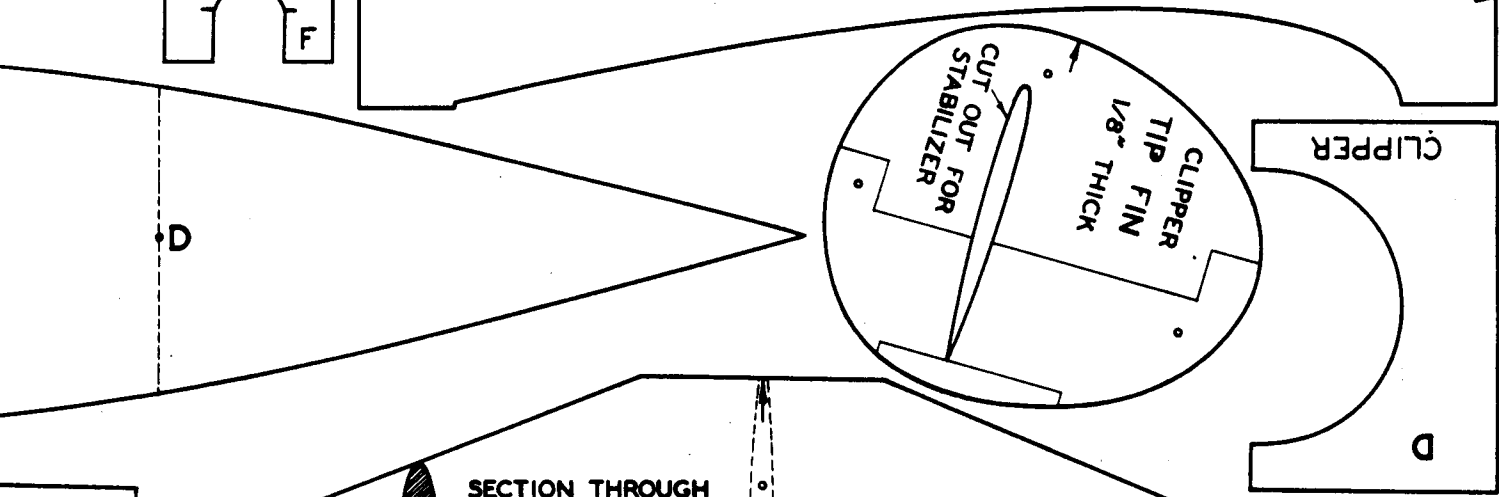
BOEING CLIPPER
CENTER FIN
1/8" THICK

MPATE



TOP AND BOTTOM

BOEING CLIPPER WING AIRFOIL TEMPLATE



PROCEDURE

1. TAPER BLOCK AS ON ASSEMBLY DWG.
2. CUT OUT TO THIS PATTERN.
3. TRACE ON CENTER AND END SHAPES.
4. CARVE ACROSS BLOCK TO LINES.
5. SHAPE AND GLUE ON TIP

MODEL	BOEING CLIPPER		MODEL
PAN AMERICAN FLYING BOAT			
TEMPLATES			

SCALE 1:72	SERIAL NO. C-4	DATE 4-15-42
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COMET MODEL AIRPLANE & SUPPLY CO., INC.