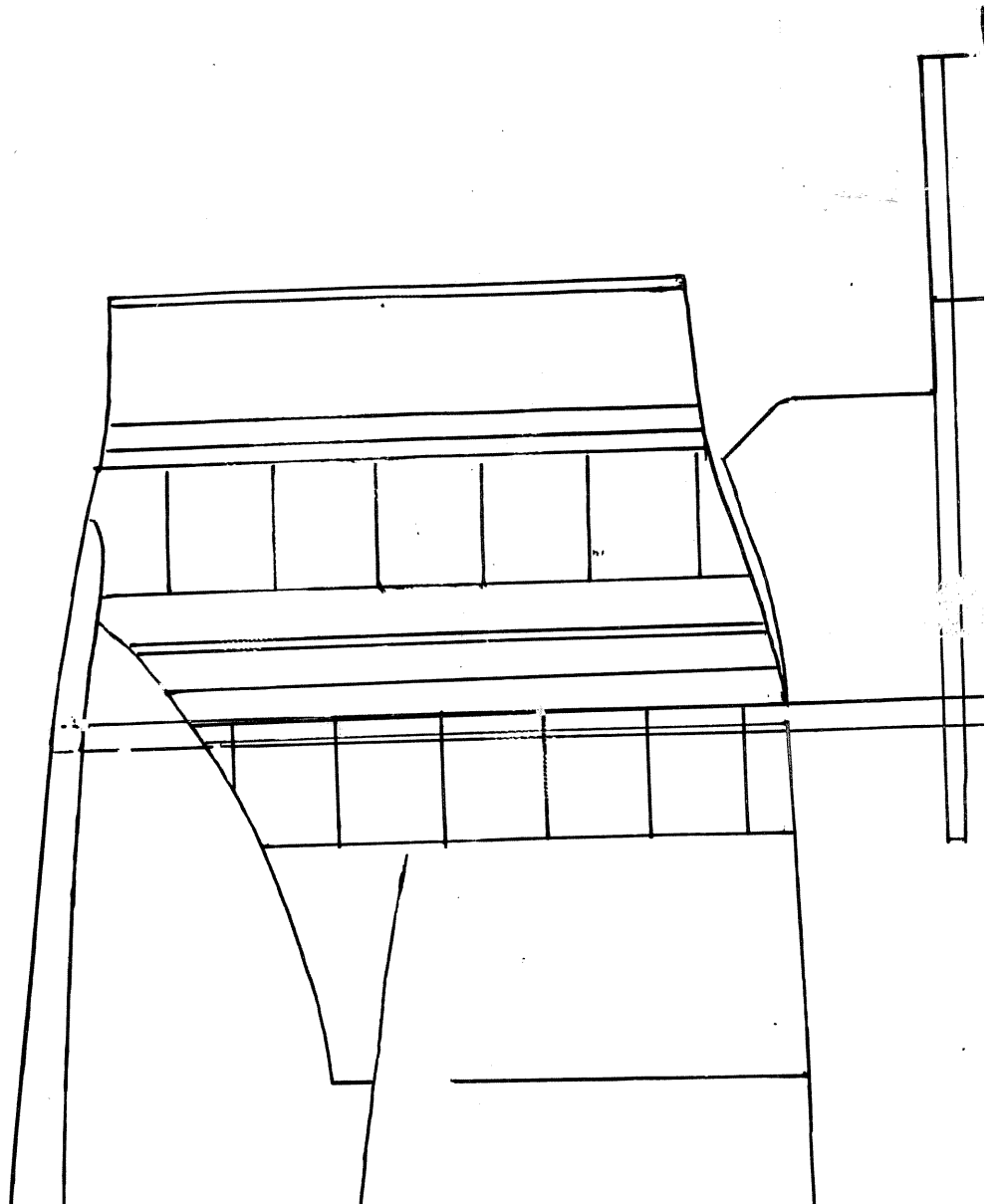
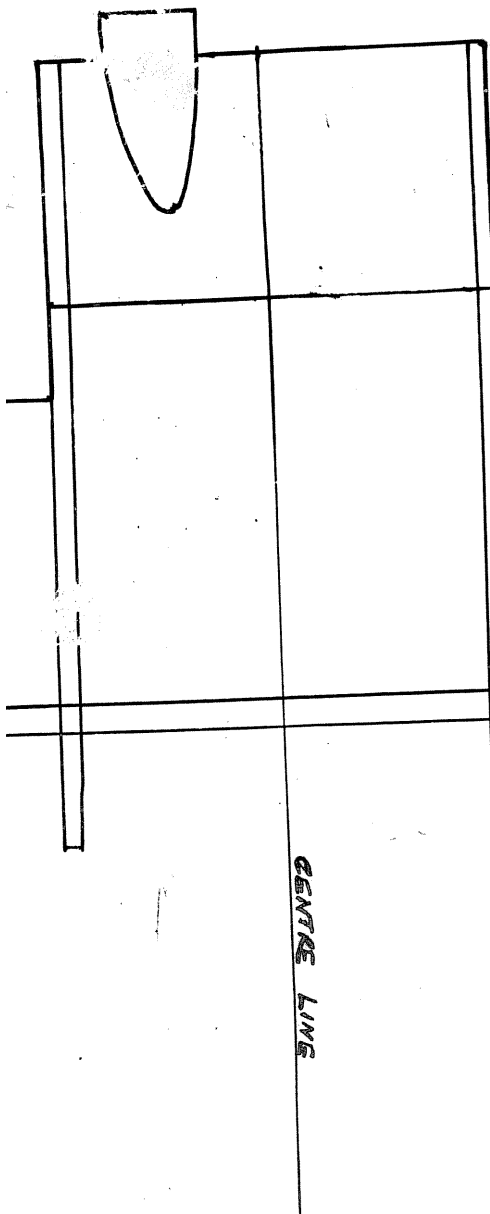


PLY



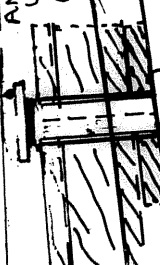


CENTRE LINE

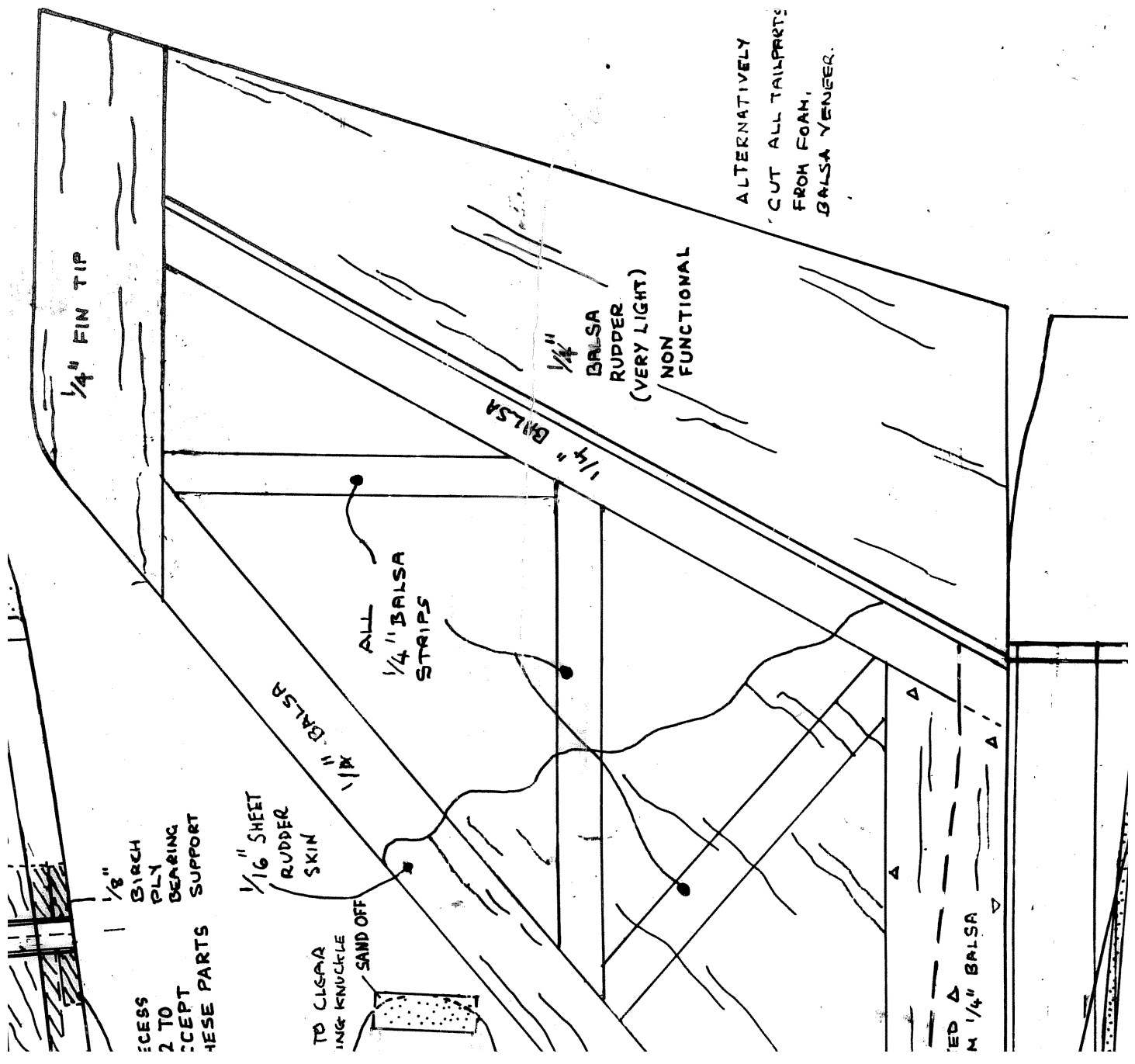
CARVE FROM
BLOCK Balsa

TURN UP FOAM (PINK/BLUE)
BLANK USING A
DRILL OR LATHE,
THEN CUT INSIDE
APERTURE TO
DOTTED LINES.
COVER WITH LIGHT
GLASS CLOTH AND
EPOXY RESIN
(USE THIS DRAWING
AS WORKING TEMPLATE)

BRAZE OR SILVER
SOLDER ONTO
INNER BRASS
TAILERON TUBE
OR DRILL THROUGH
AND USE A CAPBOLT
(SEE DRAWING LEFT)



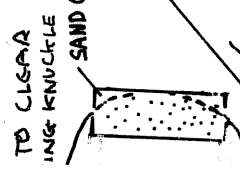
1/4" DIA TIP



EXCESS
2 TO
SUPPORT
THESE PARTS

1/8" BIRCH PLY BEARING

1/16" SHEET RUDDER SKIN



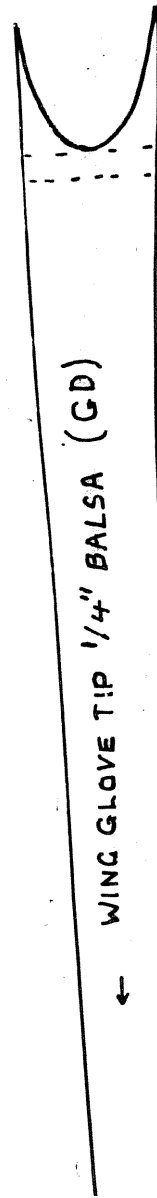
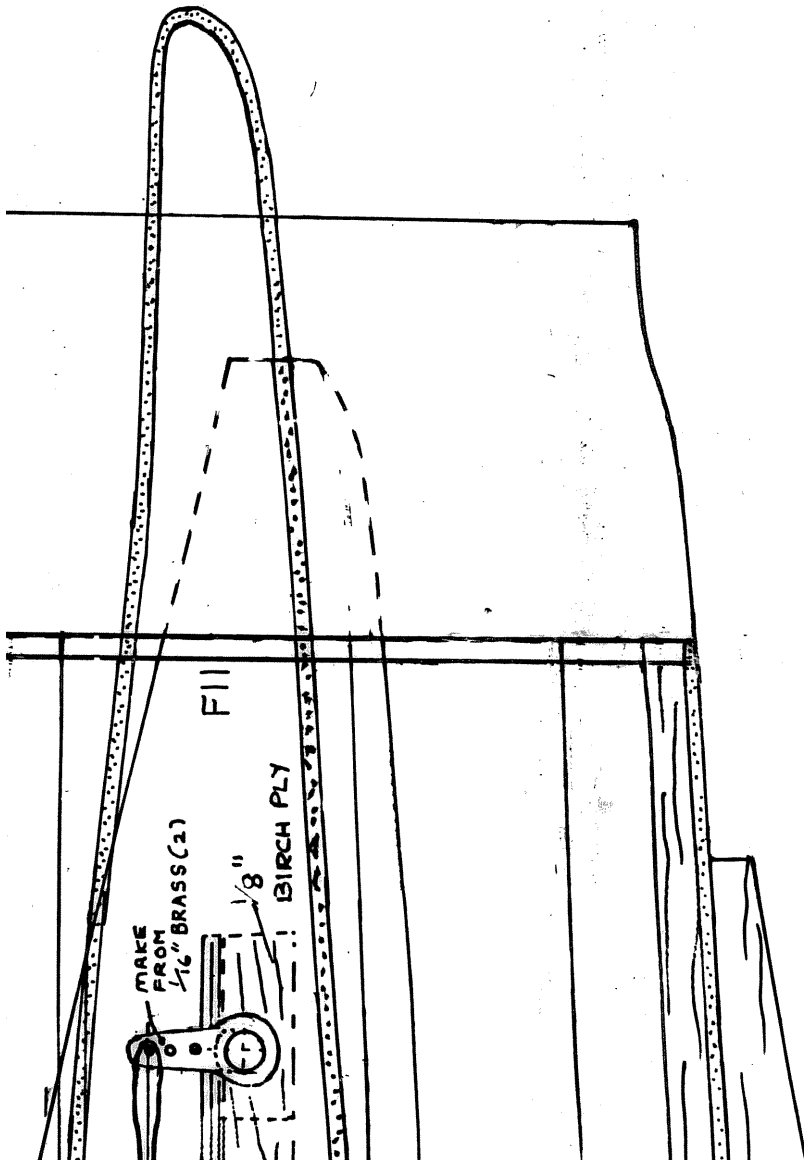
ALL 1/4" BALSAM STRIPS

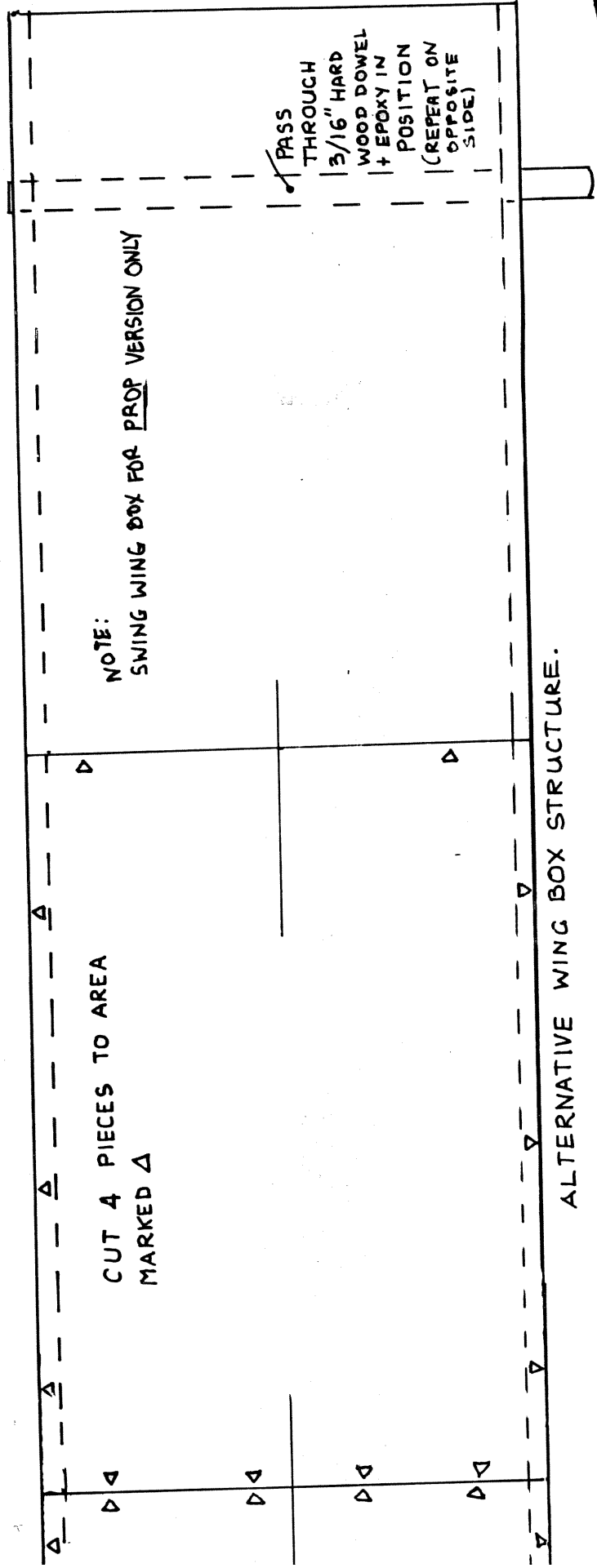
1/4" BALSAM

1/4" BALSAM RUDDER (VERY LIGHT) NON FUNCTIONAL

ALTERNATIVELY CUT ALL TAILPARTS FROM FOAM, BALSAM VENEER.

1/4" BALSAM





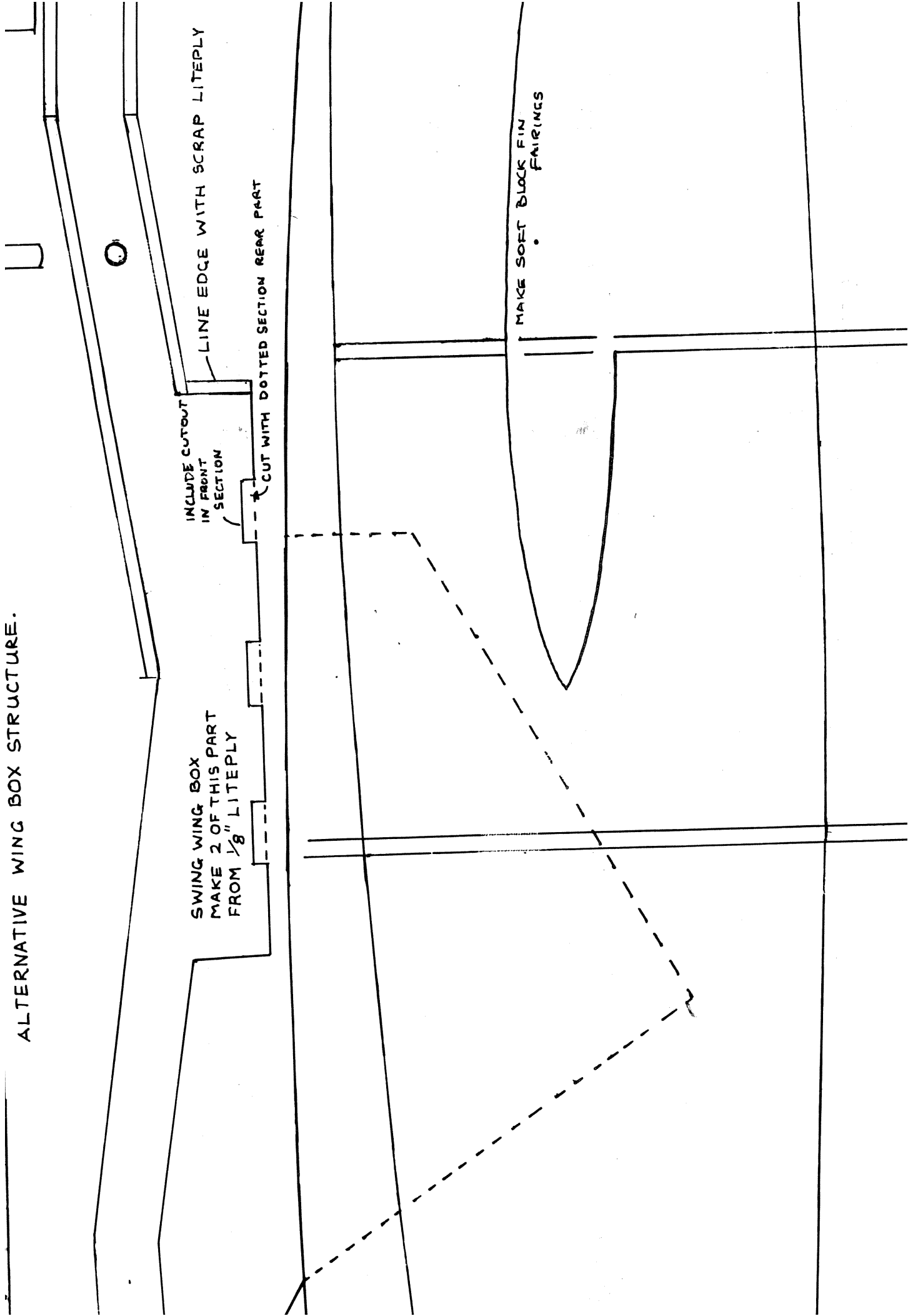
NOTE:
SWING WING BOX FOR PROP VERSION ONLY

CUT 4 PIECES TO AREA
MARKED Δ

PASS
THROUGH
3/16" HARD
WOOD DOWEL
+ EPOXY IN
POSITION
(REPEAT ON
OPPOSITE
SIDE)

ALTERNATIVE WING BOX STRUCTURE.

ALTERNATIVE WING BOX STRUCTURE.



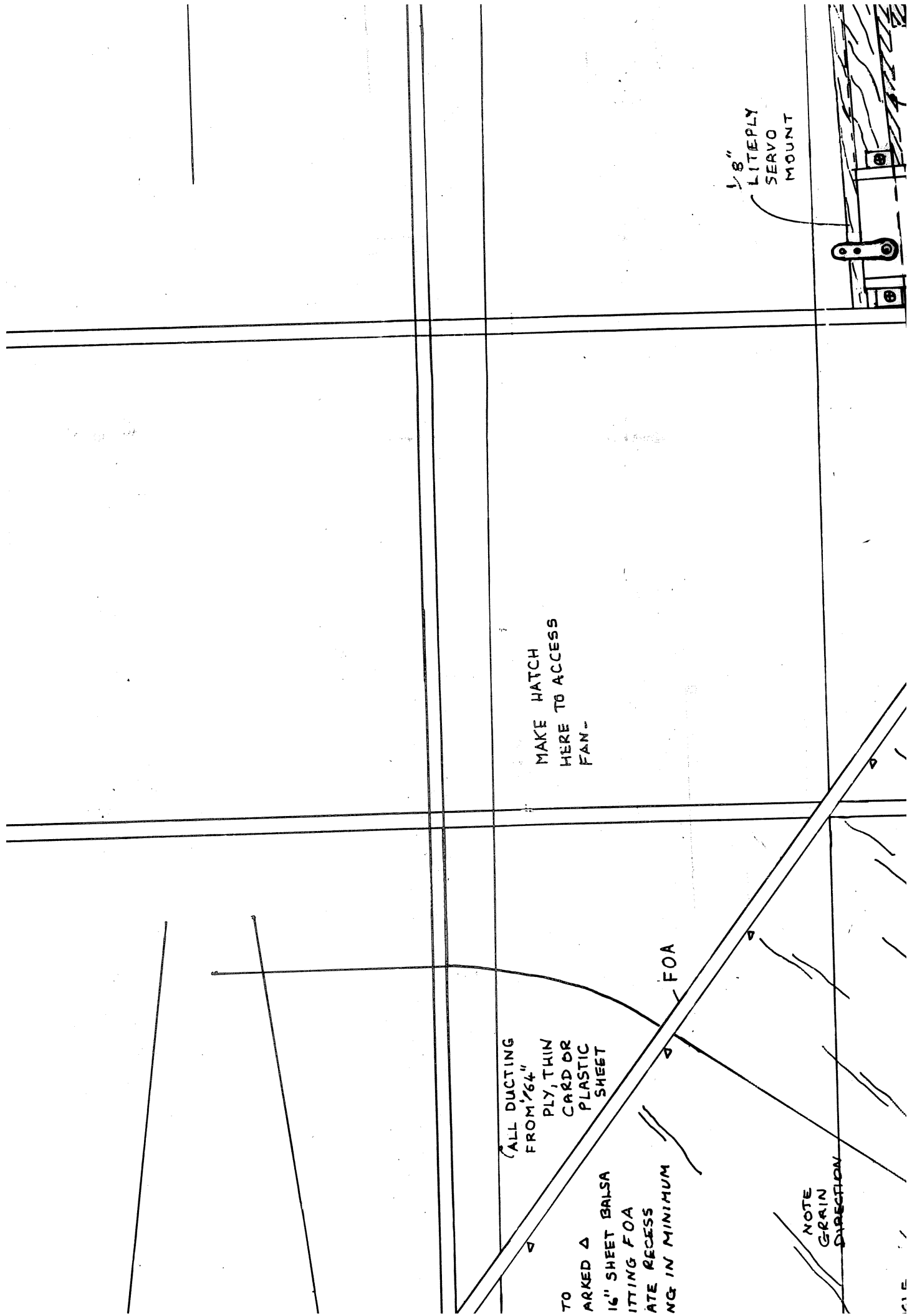
1/8" LITEPLY SERVO MOUNT

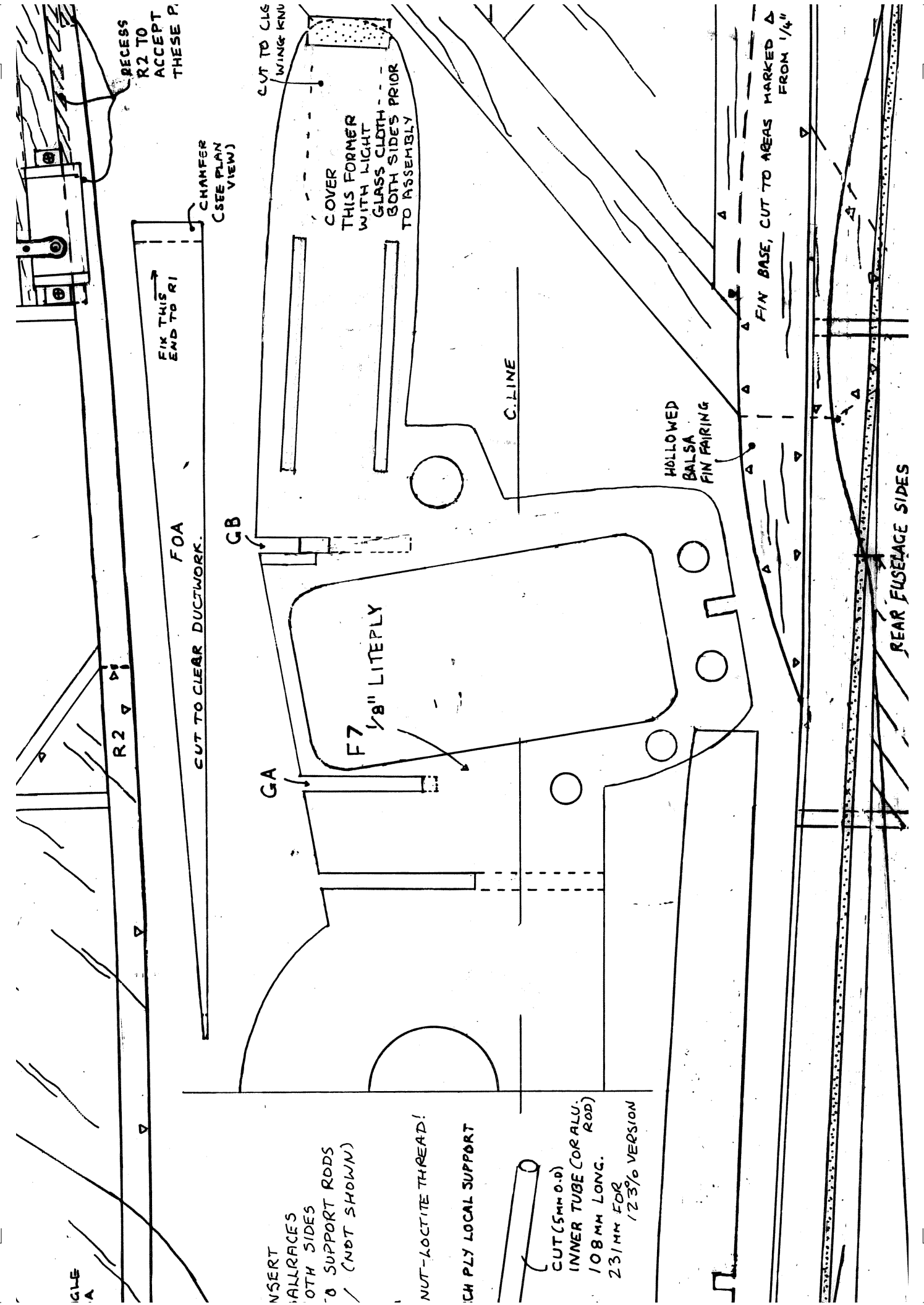
MAKE HATCH
HERE TO ACCESS
FAN-

ALL DUCTING
FROM 1/64"
PLY, THIN
CARD OR
PLASTIC
SHEET

TO
MARKED Δ
16" SHEET BALSA
FITTING FOA
ATE RECESS
NG IN MINIMUM

NOTE
GRAIN
DIRECTION





RECESS R2 TO ACCEPT THESE P...

FIX THIS END TO R1

CHAMFER (SEE PLAN VIEW)

FOA CUT TO CLEAR DUCTWORK.

GB

COVER THIS FORMER WITH LIGHT GLASS CLOTH BOTH SIDES PRIOR TO ASSEMBLY

CUT TO CLS (WING KNU

C.LINE

HOLLOWED Balsa FIN FAIRING

FIN BASE, CUT TO AREAS MARKED Δ FROM 1/4"

REAR FUSELAGE SIDES

INSERT BRASS RAILS ON BOTH SIDES TO SUPPORT RODS (NOT SHOWN)

NUT-LOCTITE THREAD!

CARBON PLY LOCAL SUPPORT

CUT (5mm O.D.) INNER TUBE (OR ALU. ROD) 108mm LONG. 231mm FOR 1/23% VERSION

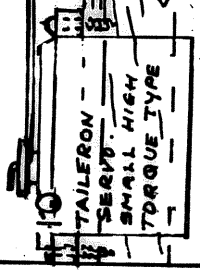
BEFORE FITTING F9, ENSURE FAN WILL FIT WITH SCRIP 1/64" PLY WRAPPED AROUND FAN

1/2" TRIANGULAR Balsa

REAR FUSELAGE SIDES 1/4" Balsa

F9

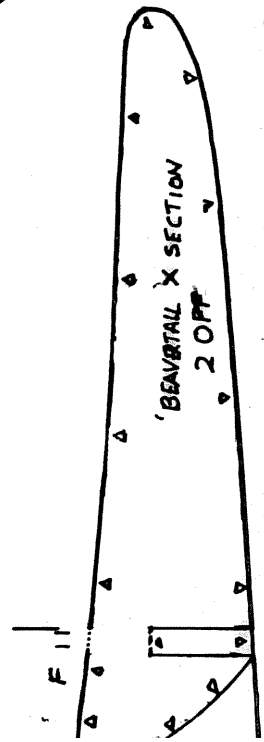
MEMOTEK MINI FAN LOCATION

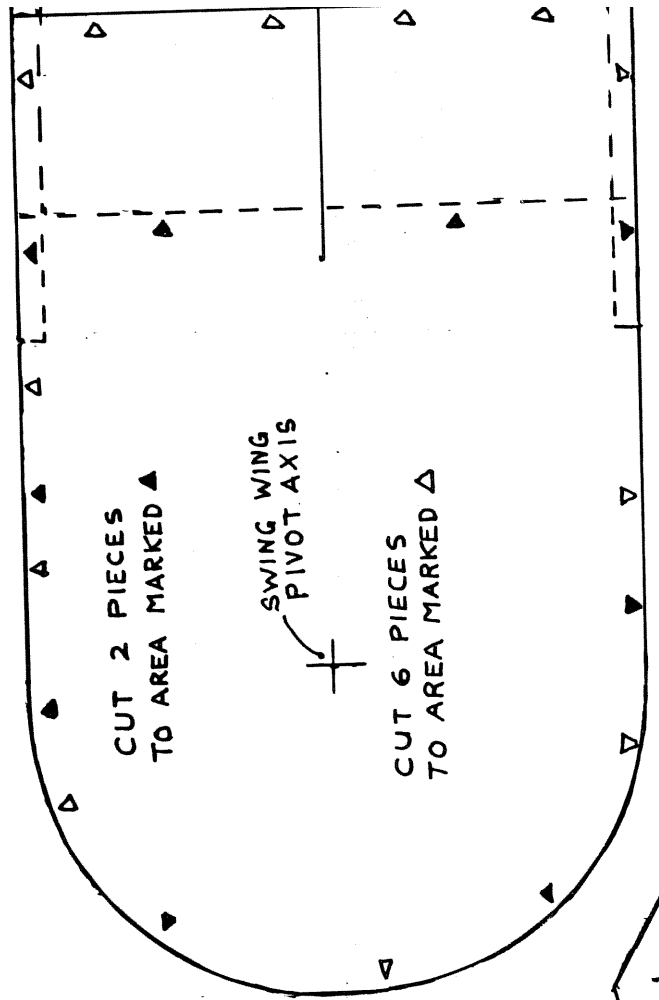
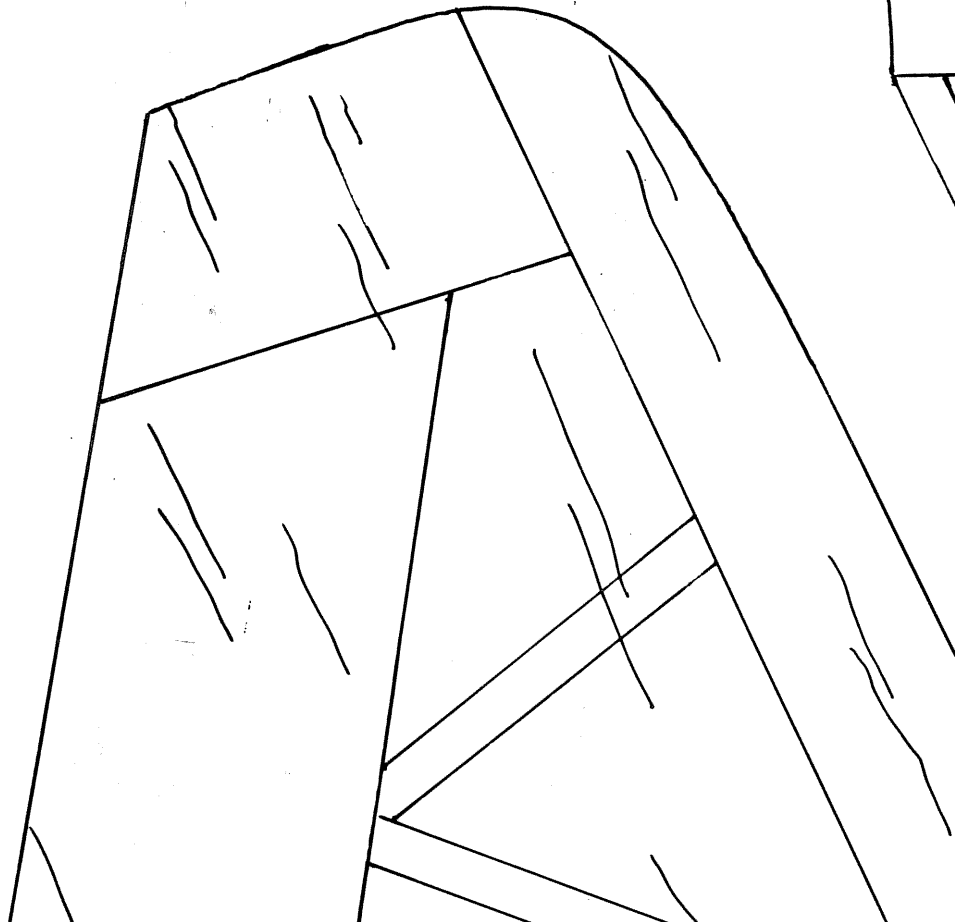


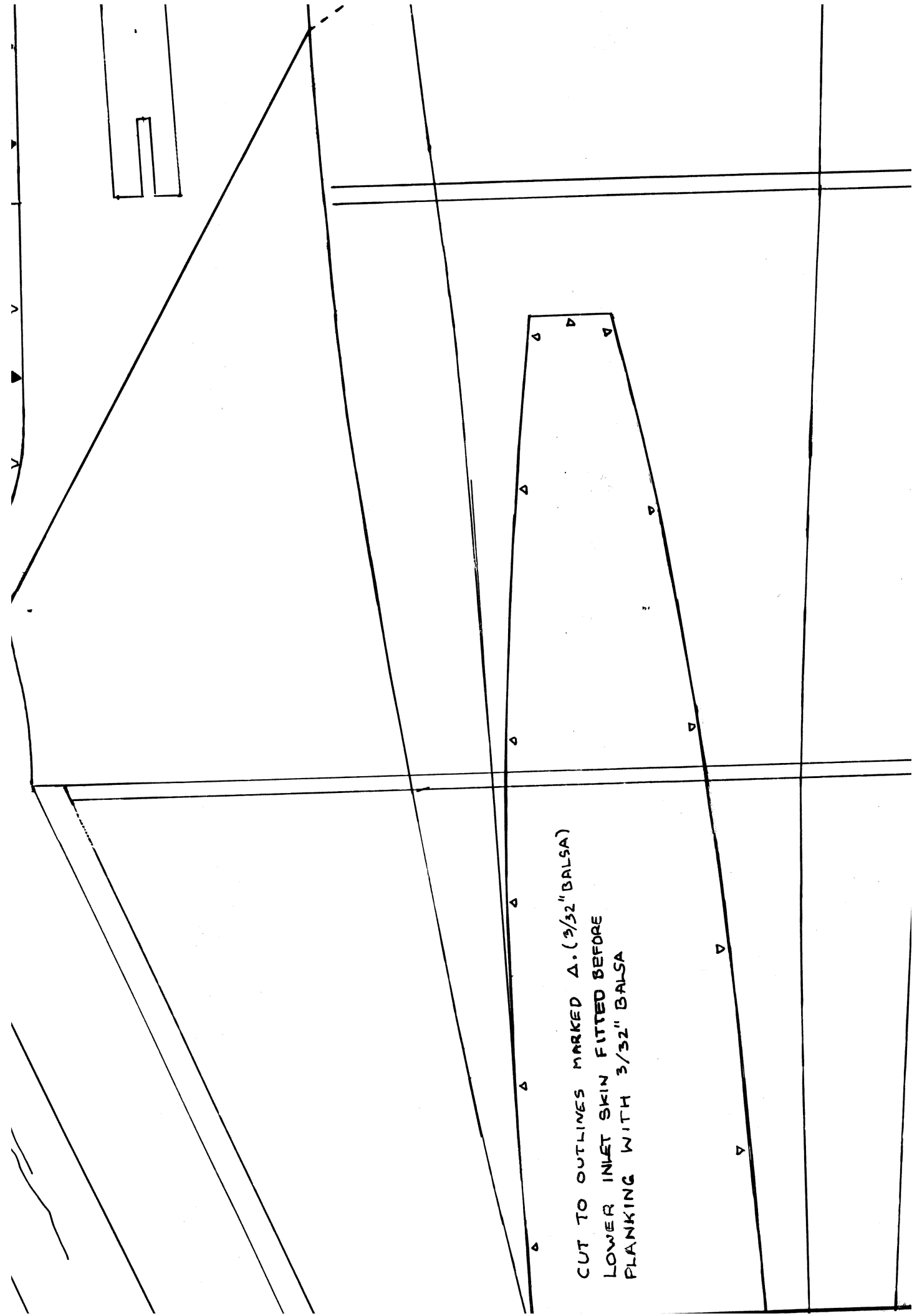
SUB PINS (2) CUT FROM 1/8" LITEPLY. LAMINATE WITH 1/16" Balsa & CARVE/SAND TO SECTION.

BEAVERTAIL X SECTION 2 OFF

BEAVER TAIL PARTS 2 OFF (LITEPLY) CUT TO AREAS MARKED A







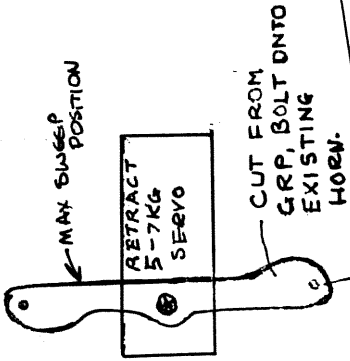
CUT TO OUTLINES MARKED Δ. (3/32" Balsa)
LOWER INLET SKIN FITTED BEFORE
PLANKING WITH 3/32" Balsa

ADJUST PLACEMENT
OF BATTERIES TO ACHIEVE
THE OPTIMUM C.O.F.G.
RE-INFORCE WITH PLYWOOD,
MAKE ACCESS HATCH.



C.O.F.G.

MOUNT
SERVO AS
HIGH AS
POSSIBLE
TO CLEAR
DUCTING



CUT FROM
GRP, BOLT ONTO
EXISTING
HORN.

EXPERIMENT
WITH
SHAPE/LENGTH.
OR MODIFY
EUTABA PART NO.
P-501245

INFILL TO
AREAS MARKED
WITH 1/16" SHE
AFTER FITTING R1
TO CREATE R1
FOR WING IN
SWEEP.

CARBON
TUBES
(3/16" DIA.)
SLEEVED
OVER WIRE.

GA

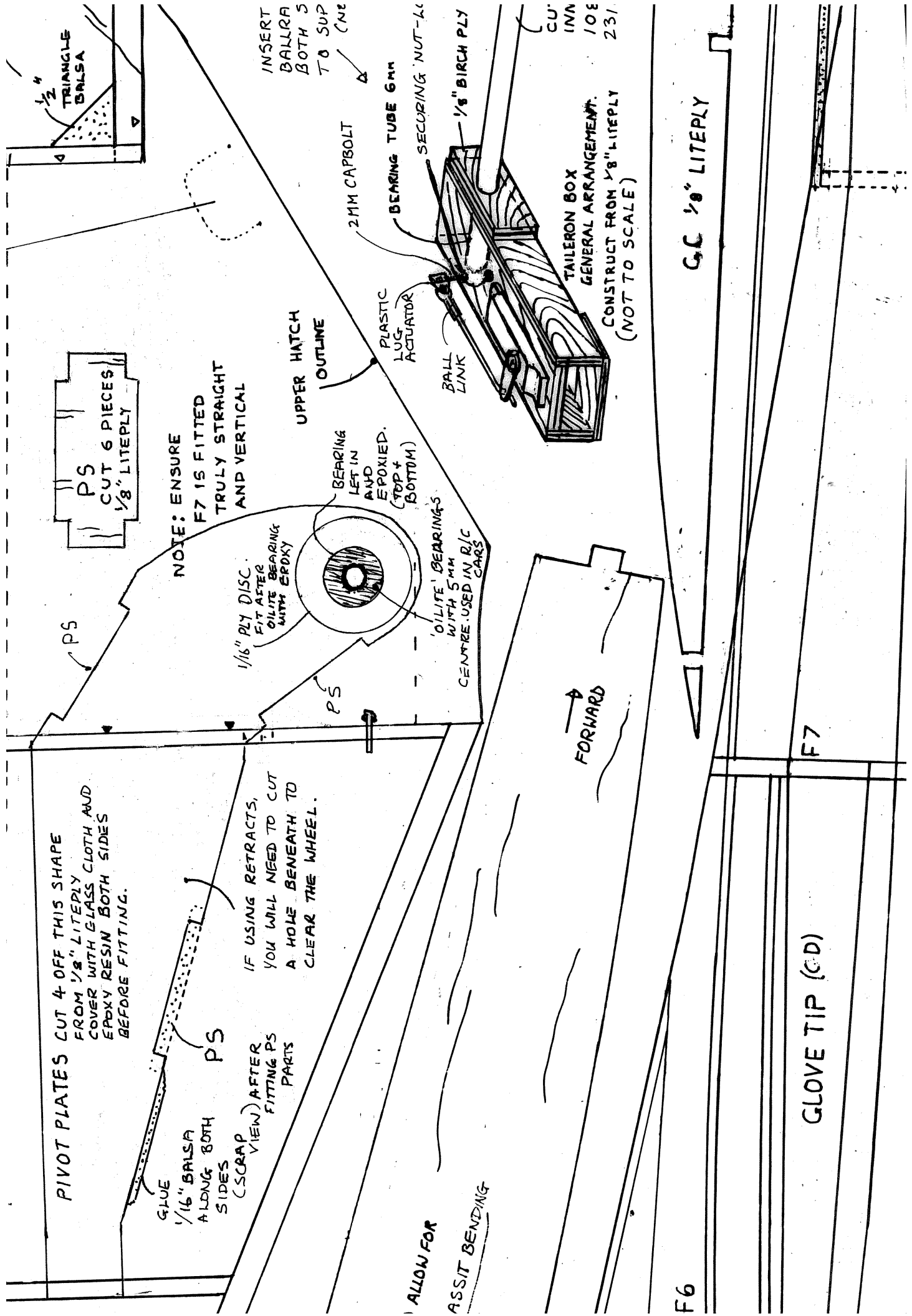
GC

GB

(SET GB SLIGHTLY HIGHER (1/16")
THAN GC.

PIVOT PLATES CUT 4 OFF THIS SHAPE

1/2"



PIVOT PLATES CUT 4 OFF THIS SHAPE FROM 1/8" LITEPLY COVER WITH GLASS CLOTH AND EPOXY RESIN BOTH SIDES BEFORE FITTING.

GLUE 1/16" BALSALONG BOTH SIDES (SCRAP VIEW) AFTER FITTING PS PARTS

IF USING RETRACTS, YOU WILL NEED TO CUT A HOLE BENEATH TO CLEAR THE WHEEL.

ALLOW FOR ASSIT BENDING

FORWARD

GLOVE TIP (CD)

F6

F7

PS CUT 6 PIECES 1/8" LITEPLY

NOTE: ENSURE F7 IS FITTED TRULY STRAIGHT AND VERTICAL

UPPER HATCH OUTLINE

BEARING LEFT IN AND EPOXIED. (TOP + BOTTOM)

1/16" PLY DISC. FIT AFTER OILITE BEARING WITH EPOXY

OILITE BEARINGS WITH 5MM CENTRE. USED IN R/C CARS

2MM CAPBOLT

BEARING TUBE 6MM

PLASTIC LUG ACTUATOR

BALL LINK

1/8" BIRCH PLY

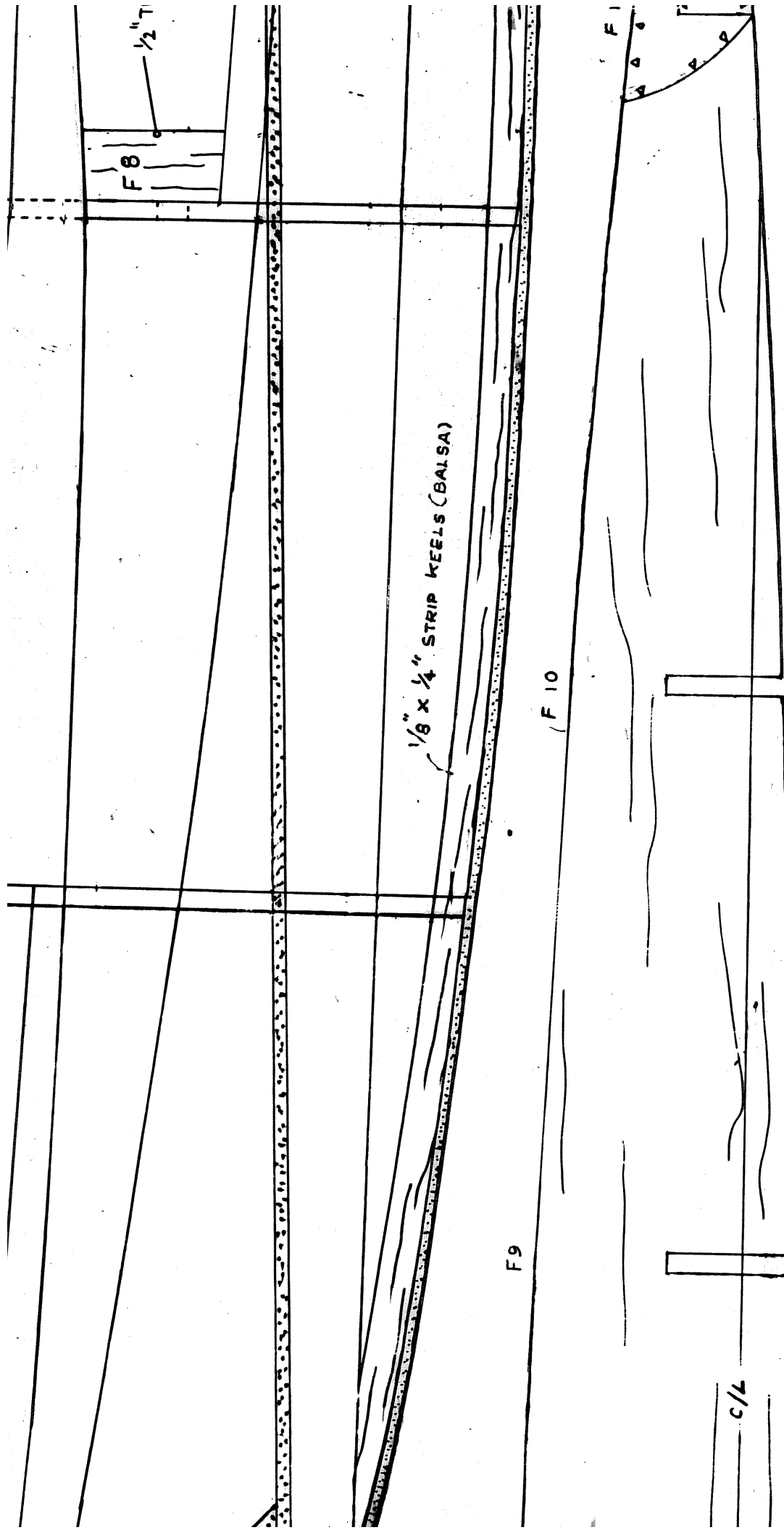
TAILERON BOX GENERAL ARRANGEMENT. CONSTRUCT FROM 1/8" LITEPLY (NOT TO SCALE)

GC 1/8" LITEPLY

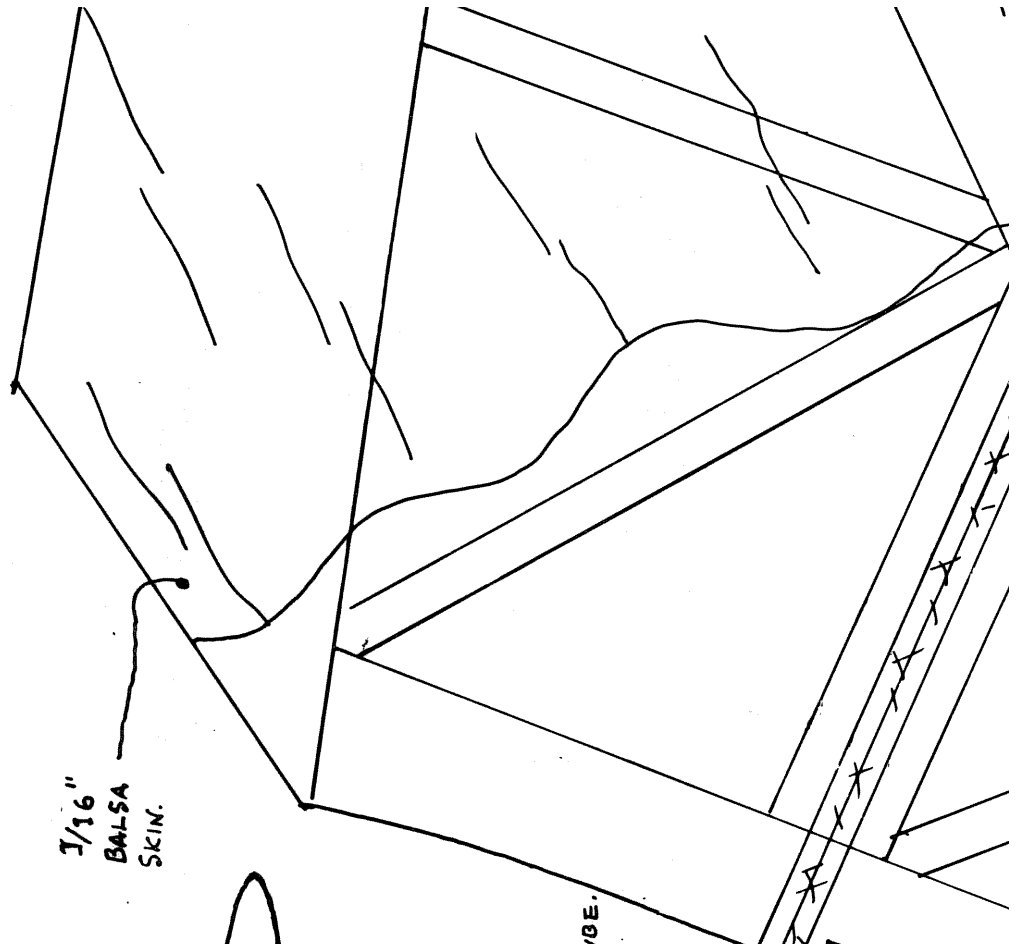
INSERT BALLRA BOTH S TO SUP ONE

1/2 TRIANGLE Balsa

CU. INN 10E 231



END
OF R1



1/16"
BALSA
SKIN.

CARVE TAILERONS TO THIS SHAPE

TAILERON ACTUATION SLEEVE
FROM 6MM BRASS TUBE.
INNER SLEEVE FROM 5MM BRASS TUBE.

SURFACES FROM 1/16" BALSA
SHEET. FIT LOWER SHEET TO
FRAME BEFORE EPOXYING
TUBE INTO PLACE. USE
1/2 HR EPOXY, ROUGHEN TUBE
FIRST TO ENSURE "KEYING"

OF ADHESIVE
STATIC BALANCE
TAILERON STABS

SELECTION:
THE HIGHEST
AVAILABLE,
UNLESS STATED,
TEPLY.
REFER TO
RE PASSAGE
FOR FORMERS
AS FOR SERVO
ACTION LEADS,
ANYTHING ABOUT
CONSTRUCTION
UNLESS TO
PLEASE CONTACT
THROUGH MY
E-MAIL
LESS, OR

ANT & MAIL
LESS, OR
E TO ME.

4 THUMKIES
SELECTING
F-14 TOMCAT,
WE LET ME
OW HOW YOURS
ELOPS & SHARE
TOGRAPHS.

IT NOTE:
AN VIEW OF
SELAGE IS
KIT - 1/2 SIDE SHOWS
PER DETAILS, OTHER
LF SHOWS LOWER DETAILS.

ITEPLY

(YOU MAY
NEED TO TRIM
THESE PARTS
AFTER FITTING)

EPLY

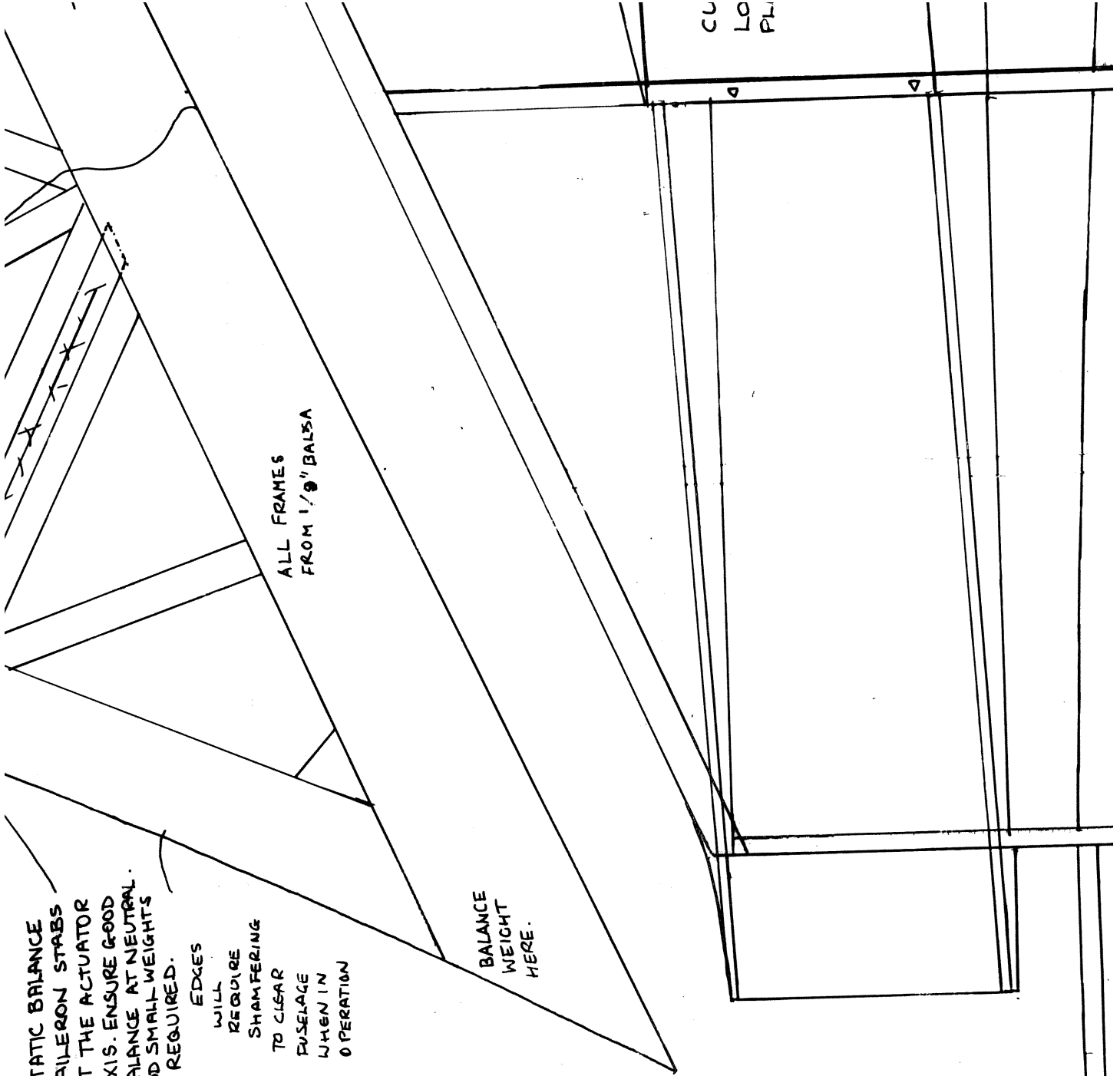
STATIC BALANCE
TRAILERON STABS
AT THE ACTUATOR
AXIS. ENSURE GOOD
BALANCE AT NEUTRAL.
ADD SMALL WEIGHTS
IF REQUIRED.

EDGES
WILL
REQUIRE
SHAMFERING
TO CLEAR
FUSELAGE
WHEN IN
OPERATION

ALL FRAMES
FROM 1/8" BALSA

BALANCE
WEIGHT
HERE.

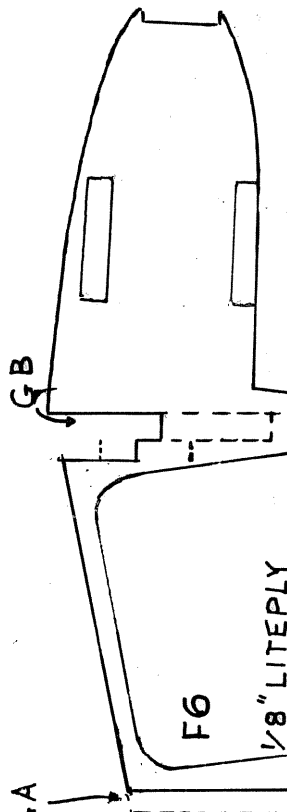
CU
LO
PL



AI
OF
TH
RE
M

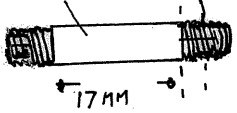
GLUED CLEAR
COPIES AVAILABLE
FROM DESIGNER
IN BOTH VERSIONS

SPLITTER PLATE
3/8" Balsa



F0

1/8" LITEPLY



5MM STEEL WING PIVOT PIN. (X2. REQ'D)

17MM

4MM THREAD EACH END

WASHER

4MM NUT LOCKTITE AFTER FITTING.

GD



R2

REAR FUSELAGE SIDES
(CUT SLIGHTLY OVERLENGTH TO ALLOW
DAMPEN OUTER SURFACE TO ASSIT.)

1/4" Balsa (x2)

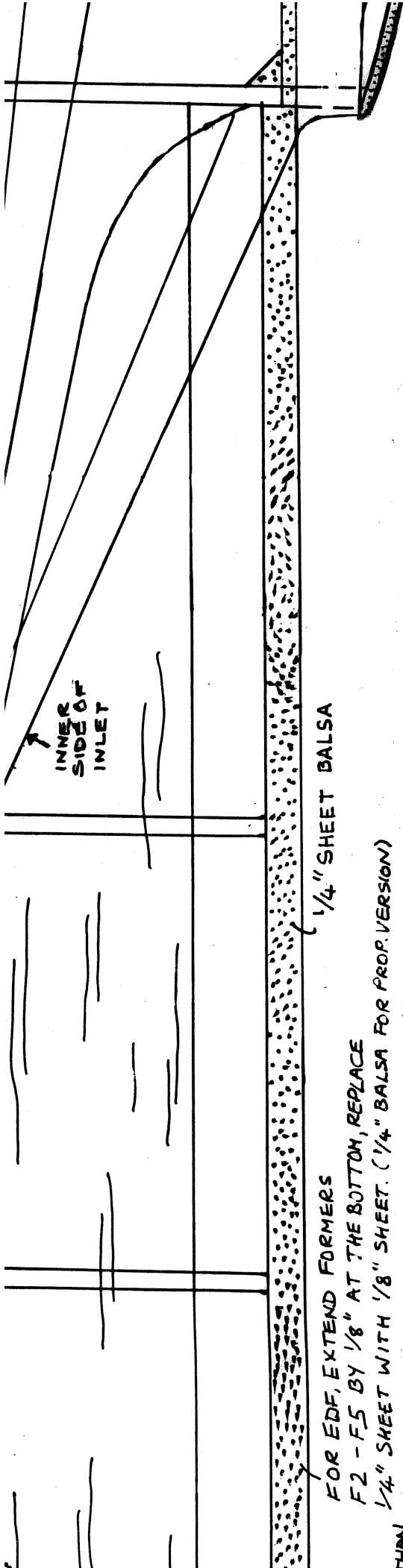
MAKE
CANOPY
REMOVABLE
FOR BATTERY/RX.
ACCESS

F6

F5

INNER

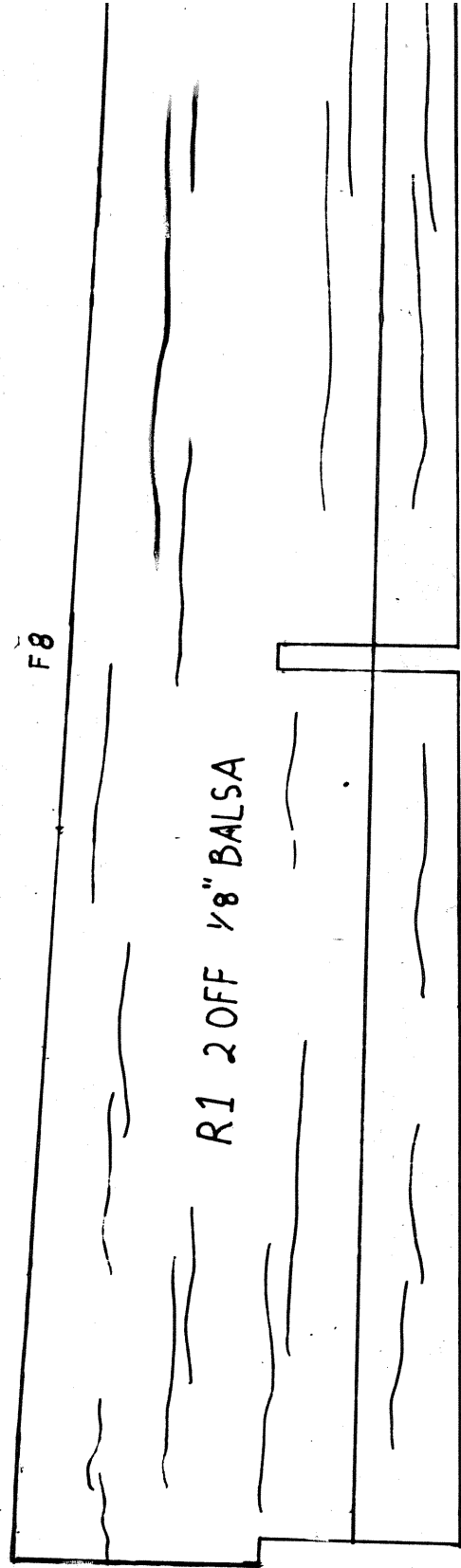
F4



1/4" SHEET Balsa

FOR EDF, EXTEND FORMERS
 F2 - F5 BY 1/8" AT THE BOTTOM, REPLACE
 1/4" SHEET WITH 1/8" SHEET. (1/4" Balsa FOR PROP VERSION)

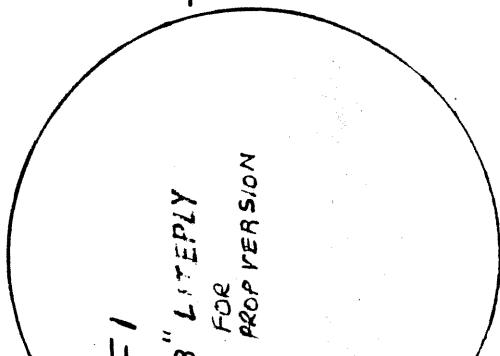
THIN, KEEP
 (N), SAME LENGTH!



R1 2 OFF 1/8" Balsa

F7

F8



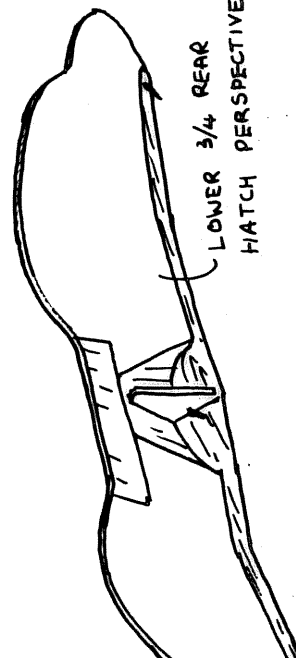
3" LITEPLY
 FOR
 PROP VERSION

GENERAL BUILDING NOTES:

CUT ALL FORMERS, REAR 1/8" (RI)
BALSA FUS. CRUTCHES AND
FORWARD FUS. SIDES (1/8" BALSA.
ENSURE YOU HAVE A VERY
FLAT SURFACE TO BUILD ON.
TRIAL FIT ALL PARTS BEFORE GLUING.
OPEN OUT FORMERS WHERE YOU
INTEND PLACING BATTERIES TO FIT.
PLY SWING WING BOX IS FOR
PROP VERSION ONLY.
BEING AN EXPERIENCED MODEL
BUILDER, FEEL FREE TO MAKE
MODIFICATIONS TO SUIT YOUR STYLE
OF BUILDING.

IMPORTANT NOTES:

FORMER F7 MUST BE POSITIONED
PERFECTLY SQUARE & VERTICAL



HATCH SPING (REMOVE AFTER BUILDING MATCH)

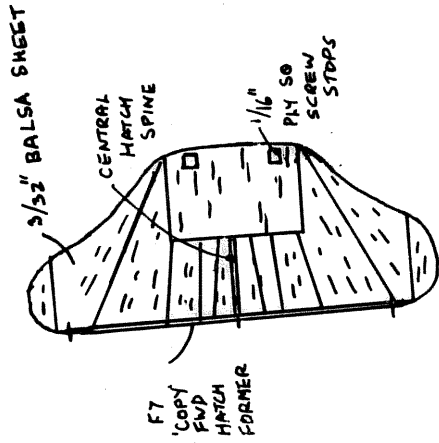
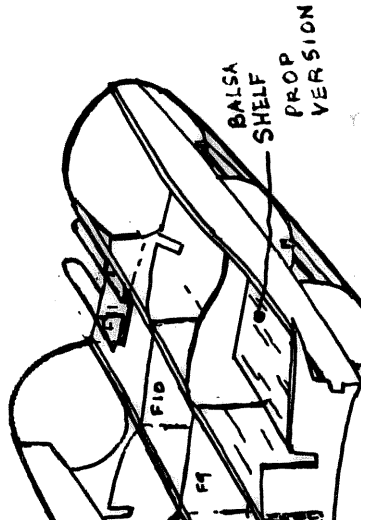
WOOD SELECTION

USE THE W
BALSA AVAIL
ALL PLY, UN
IS LITEPLY
REMEMBER
ENSURE PA
BETWEEN F
ALLOWS FO
ATTENTION
ETC.

IF ANYTHIN
THE CONST
IS UNCLEM
YOU, PLEASE
ME THROUG
PRESENT &
ADDRESS, C

INSTRUCTION:
 TECH IS MADE FROM 3/32" BALSAL.
 IS A PIECE OF STIFF CARD COPY REAR OF F7 (SEE DRAWING)
 T 3 20G (OR SIMILAR) WIRE PINS TO MATCH FORMER (SEE PLAN)
 OVER CENTRAL POSITION WITH TRANSPARENT GOOD WRAP FILM, (WINGS ON)
 SE CARD TEMPLATE TO GET A COPY IN 1/8" LITEPLY (F7 PART)
 USE SPOT CYANO TO FIT BEHIND F7, FIT HATCH SPINE IN PLACE.
 PLANK CENTRE FORWARD SECTION, FIT SHEETS AS SHOWN ON DRAWING. →
 PIN TO UPPER FUS. TUBES WHILST DRYING.
 WHEN FULLY DRIED, REMOVE FROM MODEL OR COVER WITH 1/2 OZ GLASS CLOTH IN POSITION. FIT TO MODEL USING PLY 1/8" SQUARES AS SHOWN.

IN YOUR UNDERSTANDING!



LOWER VIEW OF HATCH
 GRAIN DIRECTION AND BALSAL SHEET SEGMENTATION ILLUSTRATED

FORMER F7 MUST BE POSITIONED PERFECTLY SQUARE & VERTICAL AS MUST HINGE FITTING TO ENSURE A WARP FREE WING SET UP.
 ALL INTERNAL DUCTING IS FROM 1/64" PLY, OR YOUR PREFERENCE. SAVE WEIGHT WHEREVER POSSIBLE, WITHOUT ALTERING STRUCTURAL INTEGRITY.
 WING SWEEP SERVO, AT LEAST 5KG TORQUE REQUIRED.
 FOAM WINGS ARE PREFERRED, DUE TO SIMPLICITY & LIGHT WEIGHT. FIND A COMMERCIAL WING CUTTING FIRM IF YOU ARE NOT ABLE TO CUT YOUR OWN WINGS.
 USE A PLASTIC F-14 KIT FOR REFERENCE, I FOUND IT VERY USEFUL.
 USE CARBON TUBES TO ACTUATE WING SWEEP FROM SERVO.

PRESENT ADDRESS, WRITE TO MANY THINGS ON SELECTION THE F-14 PLEASE LET KNOW HE DEVELOPS PHOTOGRAPHY

FOOT NOT PLAN VIEW FUSELAGE SPLIT - UPPER DE HALF SHI

GA (x2) 1/8" LITEPLY

CB(x2) 1/8" LITEPLY



PROP
VERSION

BASIC BUSELAGE
CONSTRUCTION
(NOT TO SCALE)

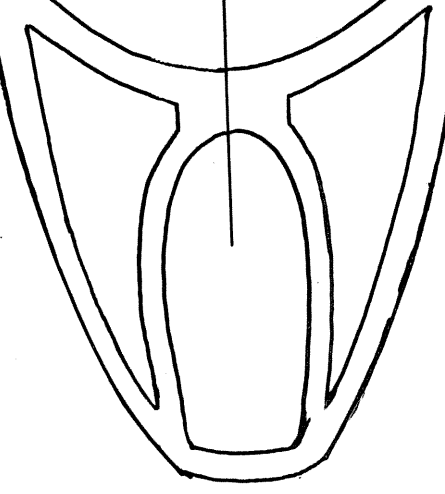
STRIP Balsa

USE COMMERCIALY
AVAILABLE SPINNER

NOTE: SIDETHRUST BUILT IN
FOR PROP. VERSION

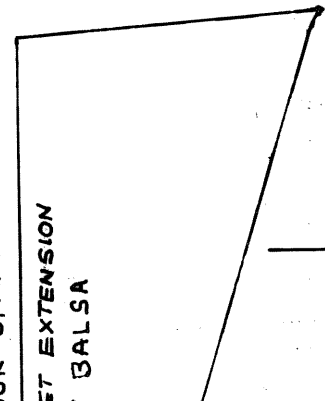
EDF: MAKE NOSE FROM
CARVED / SANDED
PINK / BLUE FOAM.
COVER WITH 2 LAYERS
OF CRISS-CROSSED
GLASS + EPOXY.
FINAL SAND FINISH
REMOVE FOAM WITH
GASOLINE.

MOULDED
CANOPIYS
FROM DES
FOR BOTH

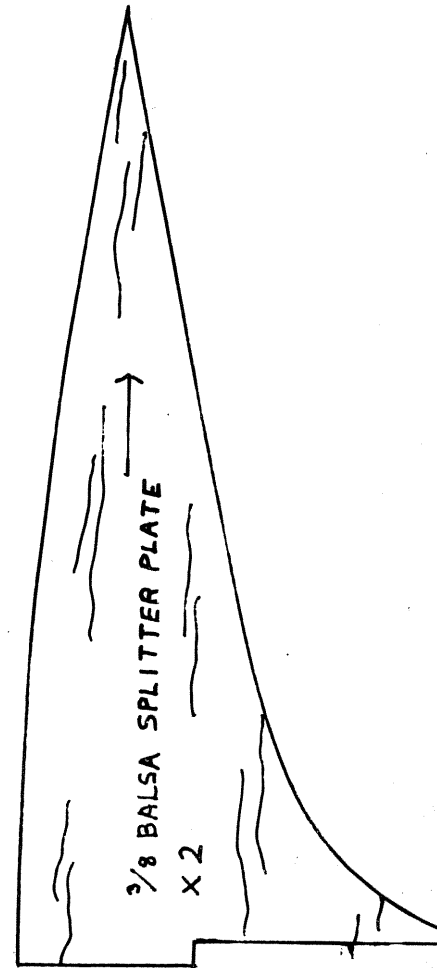


EDGES,
FOR SPAR TEMPLATE

1/8" EXTENSION
Balsa



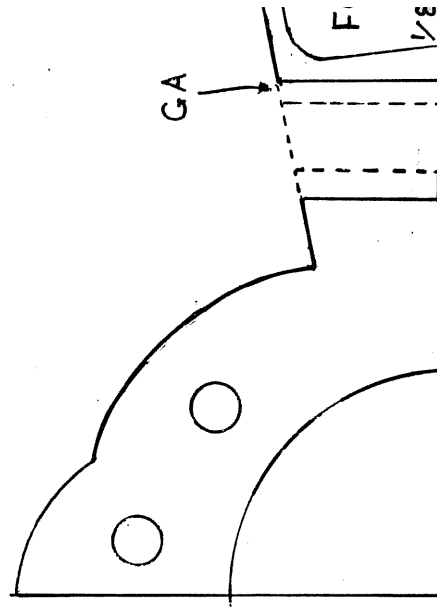
3/8" Balsa SPLITTER PLATE
X 2

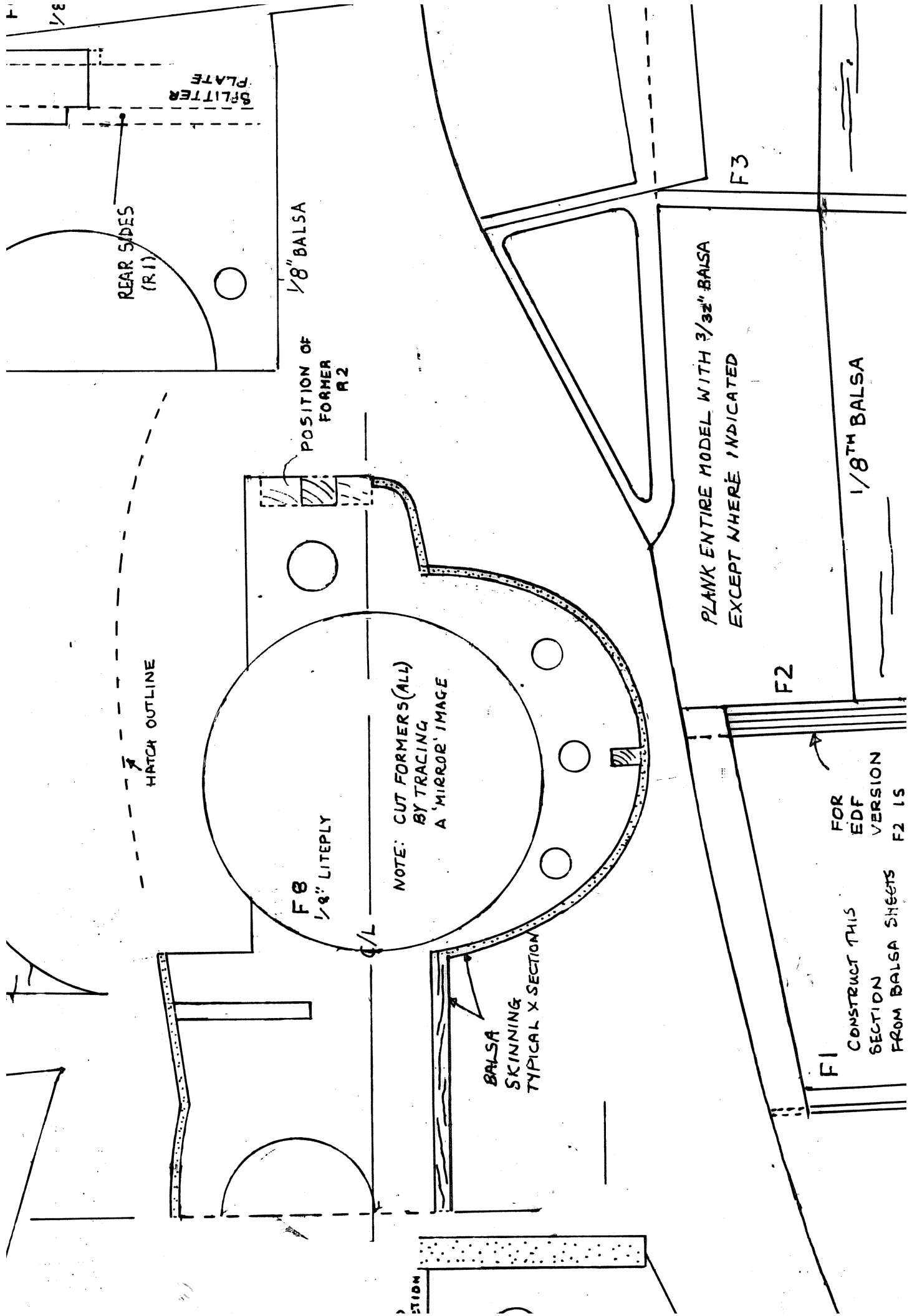


GA

F

1/8"





SPLITTER PLATE

REAR SIDES (R1)

1/8" Balsa

POSITION OF FORMER R2

HATCH OUTLINE

F8
1/4" LITEPLY

NOTE: CUT FORMERS (ALL) BY TRACING A 'MIRROR' IMAGE

C/L

Balsa SKINNING TYPICAL X SECTION

PLANK ENTIRE MODEL WITH 3/32" Balsa EXCEPT WHERE INDICATED

F3

F2

1/8" Balsa

FOR EDF VERSION F2 IS

CONSTRUCT THIS SECTION FROM Balsa SHEETS F2 IS

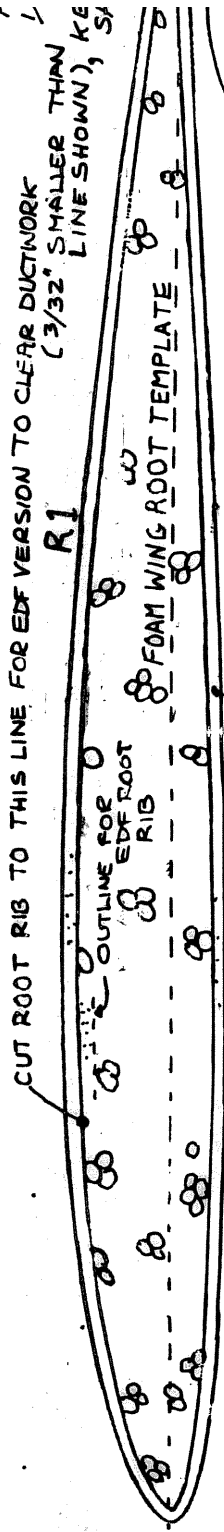
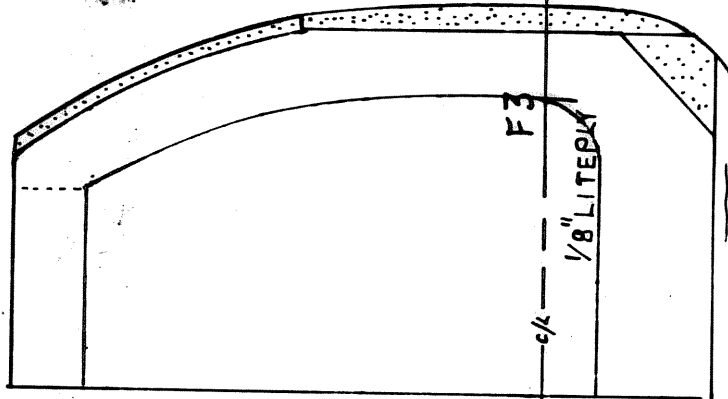
F1

CONSTRUCT THIS SECTION FROM BALSA SHEETS & CARVE TO SHAPE.

EDF VERSION F2 IS 1/8" LITEPLY

1/8TH BALSA

1/2" TRIANGULAR SECTION BALSA



3/32" BALSA WING SKIN

THIS RIB UNCHANGED

R10

FOAM WING TIP TEMPLATE

F1
1/8" LIT.
FOR PROP

CONGRATULATIONS!

I WISH YOU EVERY SUCCESS WITH YOUR F-14.

PLEASE VISIT MY WEBSITE FOR FURTHER BUILDING ASSISTANCE.

1) BUILD 23%

ARCER VERSION

TO USE 90MM FANS

TAKE THIS PLAN TO

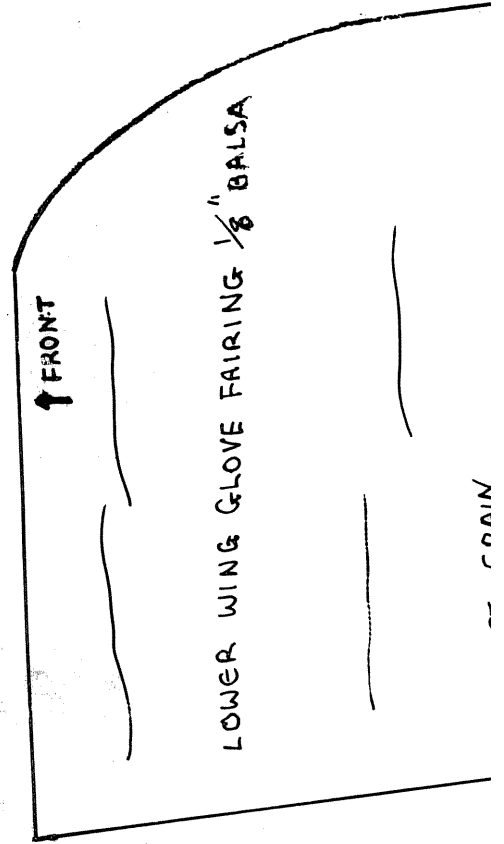
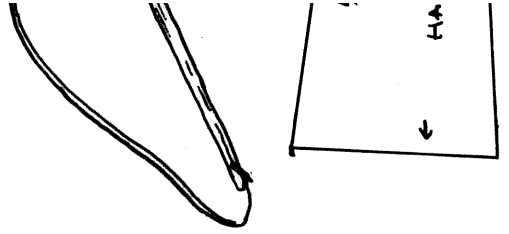
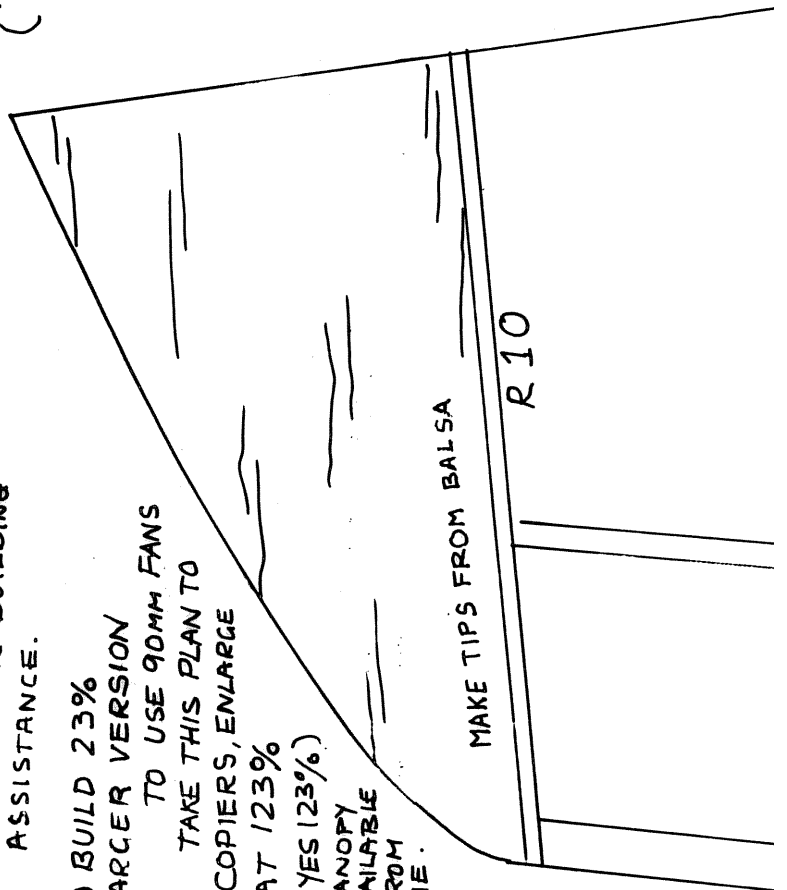
COPIERS, ENLARGE

AT 123%

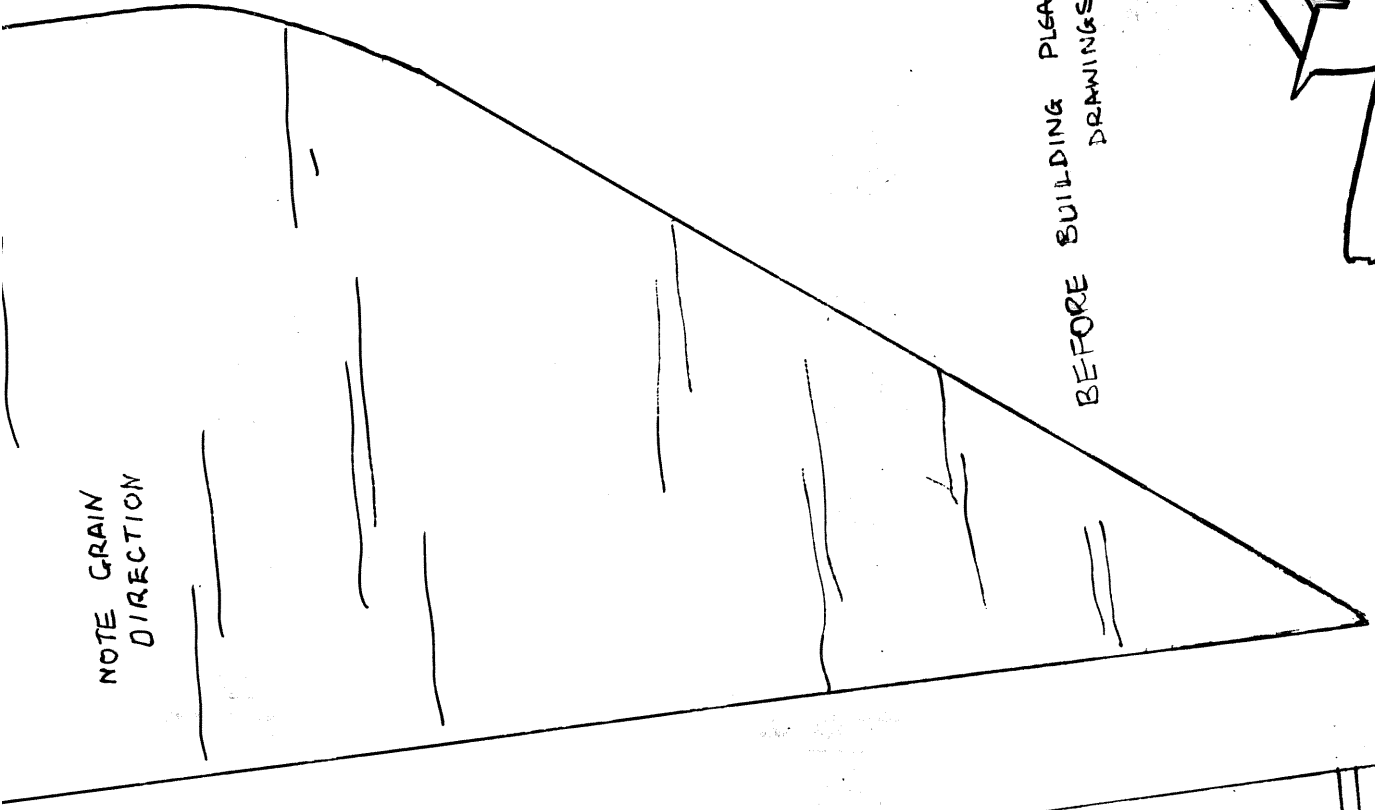
YES (23%)

ANOPY
NLABIE
ROM
IE.

LIGHTWEIGHT GRADED Balsa
('CONTEST') IS RECOMMENDED
VERY HIGHLY FOR BEST FLIGHT
PERFORMANCE!

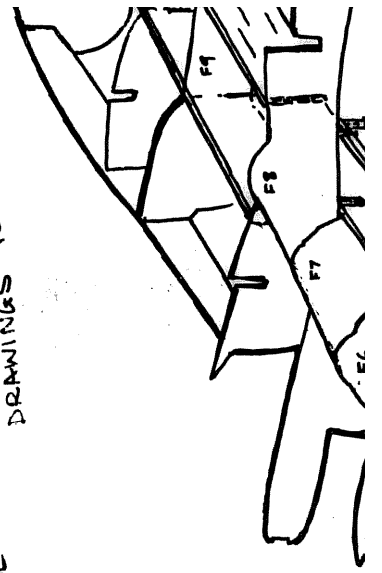


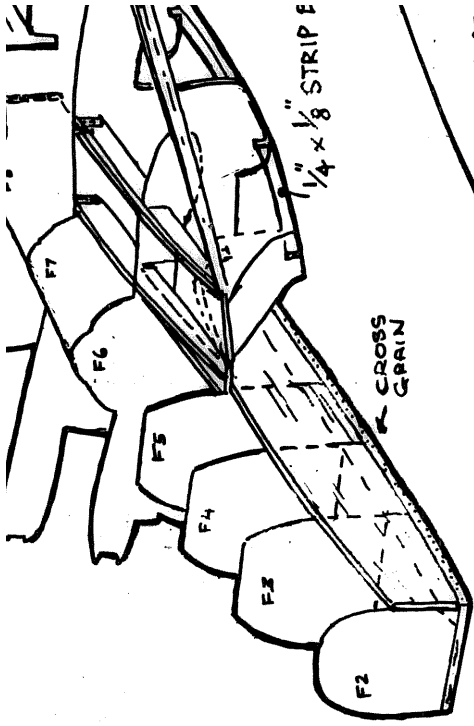
NOTE GRAIN
DIRECTION



- HATCH
- CONSTR
- HATCH IS
- USE A PIE
- TO COPY 1
- FIT 3 21
- INTO HA
- COVER C
- FOOD W/
- USE CAR
- CUT A C
- USE SP
- FIT HA
- PLANK (
- FIT SH
- PIN T
- WHEN
- OR COI
- POSITI
- SQUA

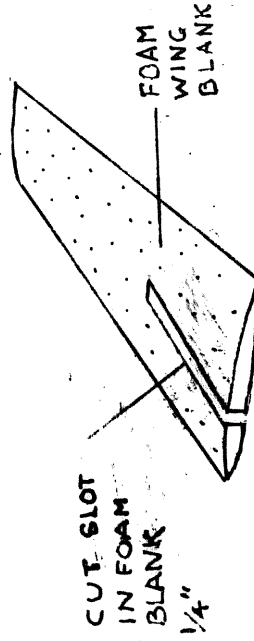
BEFORE BUILDING PLEASE STUDY
DRAWINGS TO ASSIST IN Y



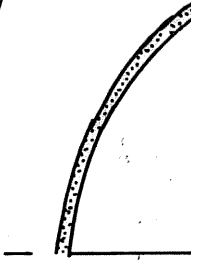


USE
AVAIL

CUT SLOT
IN WING BLANKS,
WITH WING
CORE IN THE
MIDDLE TO
ENSURE A VERTICAL
CUT IN THE
CORE.



INSERT A PIECE OF
1/4" Balsa INTO THE SLOT,
DRAW AROUND THE EDGES,
THIS IS YOUR 'SP
OUTER FORWARD INLET EXT
3/32" BAL



FOR RIBSET,
PLEASE CONTACT
ME, I WILL SEND IT
VIA EMAIL. YOU
NEED A CAD
PROGRAMME TO
READ IT.

NOTE:
RIB POSITIONS SHOWN
FOR OPTIONAL BUILT UP VERSION,
USE 'SANDWICH' METHOD

NOTE:
ANGLE RESISTS
TWISTING IN FLIGHT.

SKIN WINGS WITH 3/32" Balsa AFTER
STUB SPAR HAS BEEN EPOXIED IN PLACE
INTO FOAM.

FOR RIBSET, INLET EXTENSION

INTO FORWARD

INNER FORWARD INLET EXTENSION
3/32" BALSA

3/8"
HARD BALS
STUBSPAR.
SHAPE TO
MATCH
AIRFOIL
SECTION

EXPERIMENT WITH
POSITION.

1/8" PLY

5MM I.D. BEARINGS TOP
AND
BOTTOM

BUILDING
WING PARTS,
MEASURE WITH
GREAT CARE. DRY FIT
ALL PARTS
BEFORE BONDING

FIT STUB
SWING ACTUATOR
EPOXY JUST BELOW
UPPER SKIN

FIT 1/16"
PLY RII
WING ROOT
CAP

MAKE THIS PART
FROM BLACK
BALS

REMOVE
THIS
CORNER

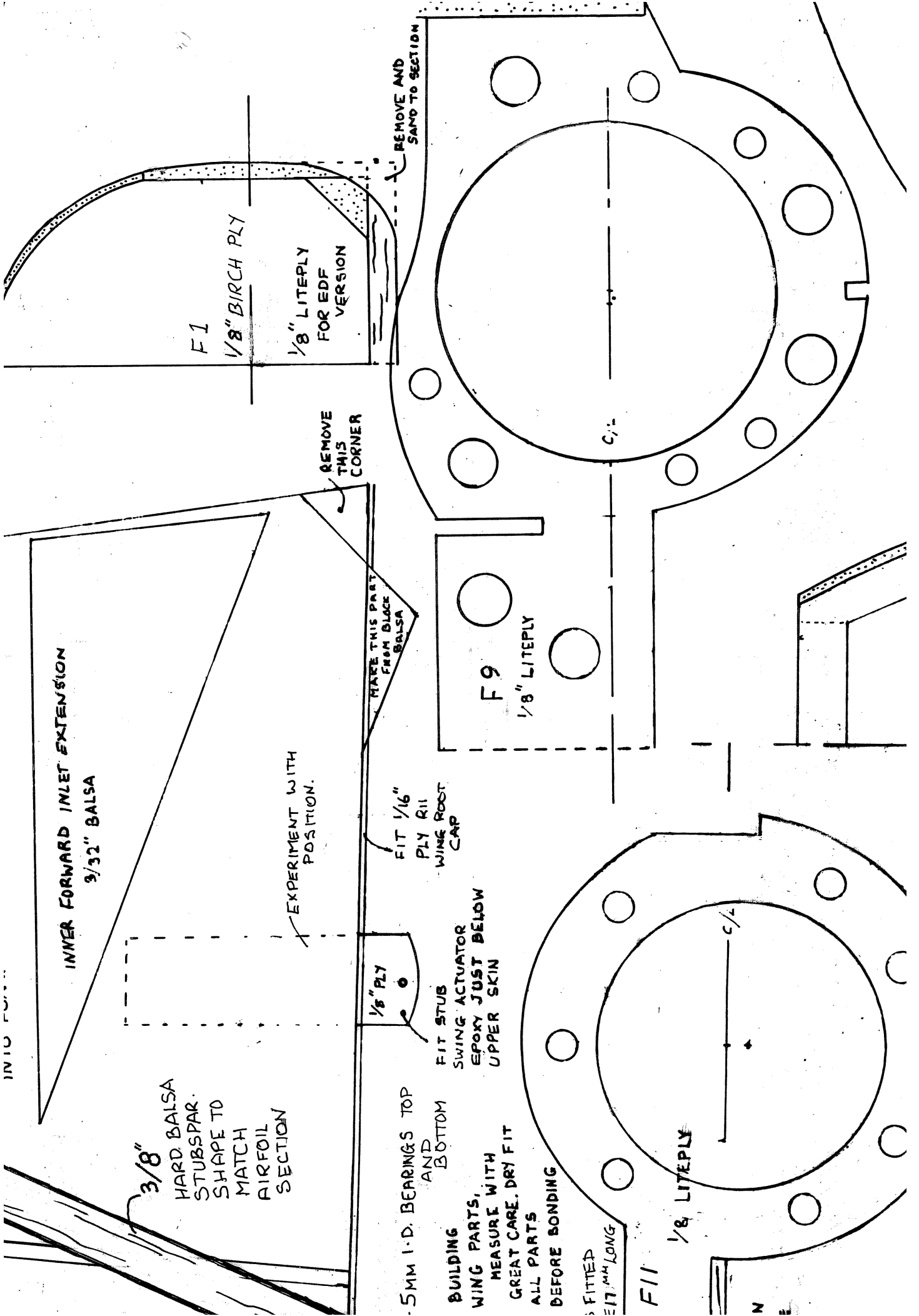
F1
1/8" BIRCH PLY
1/8" LITEPLY
FOR EDF
VERSION

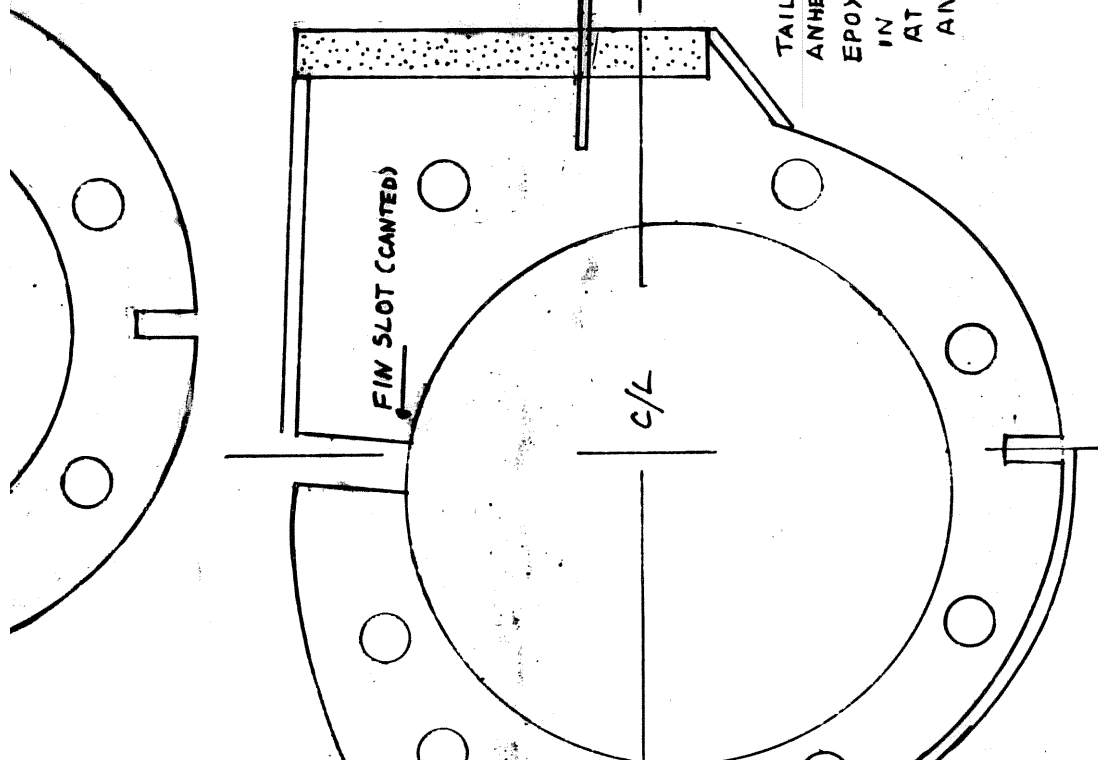
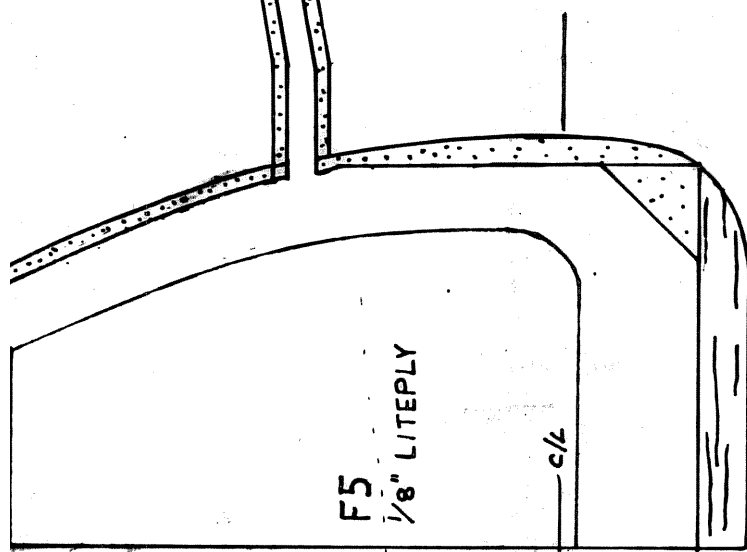
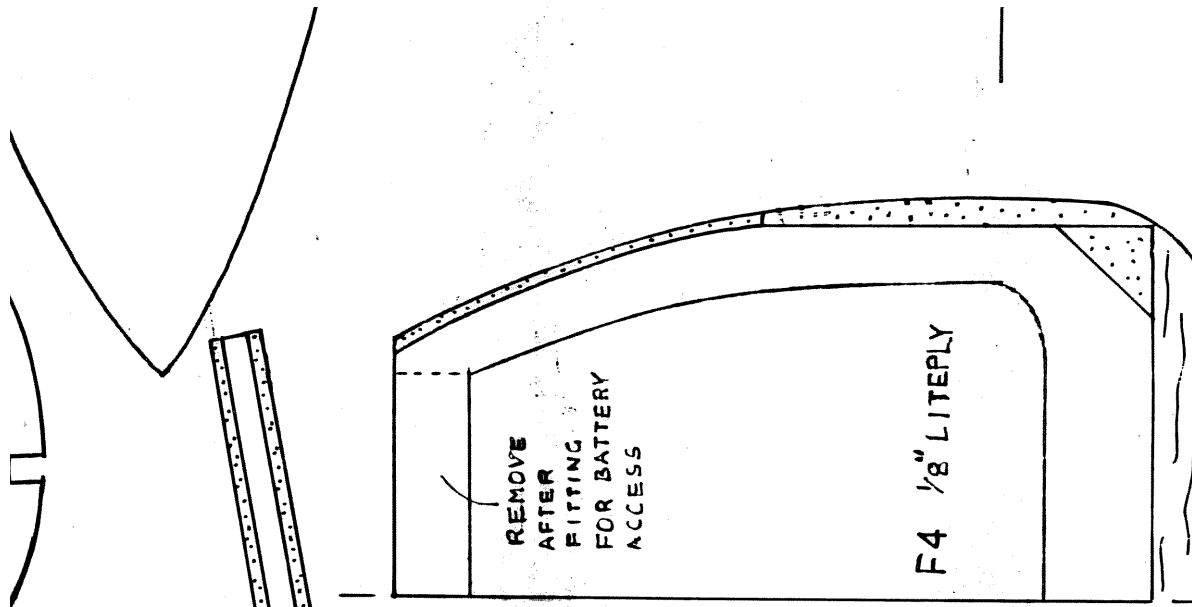
REMOVE AND
SAND TO SECTION

F9
1/8" LITEPLY

F11
1/8" LITEPLY

3 FITTED
17MM LONG





CO
I W
WIT
PLE
FOR
ASS

TO BUILD
LARGER
7
TAKI

COPIE
AT 12.

CYES 12:
CANOPY
AVAILABLE
FROM
ME.

GRUMMAN

F-14A TOMCAT

DESIGNED AND DRAWN BY MATT HALTON 2001 ©

NET ADDRESS: http://www.geocities.com/grumman_uk

PROP DRIVEN .32 - .40 ENGINES SWING WING

WEIGHT: 5-7LBS. SPAN: 32" MIN. 57" MAX.

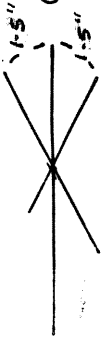
FOR EXPERIENCED BUILDERS ONLY!

EDF: 2 x WeMoTec MINI FANS (480) OR SIMILAR

NOTE: AS OF
FEB. 2002,
THIS MODEL IS
AVAILABLE IN
CNC LASER
CUT PARTS.
EMAIL FOR

TAILERON DEFLECTIONS:





CNC LASER
CUT PARTS.
EMAIL FOR
DETAILS AT:

SET TO YOUR
FLYING TASTES
AFTER 1ST FLIGHT.
WINGS FORWARD
USE RATES FOR
WINGS BACK

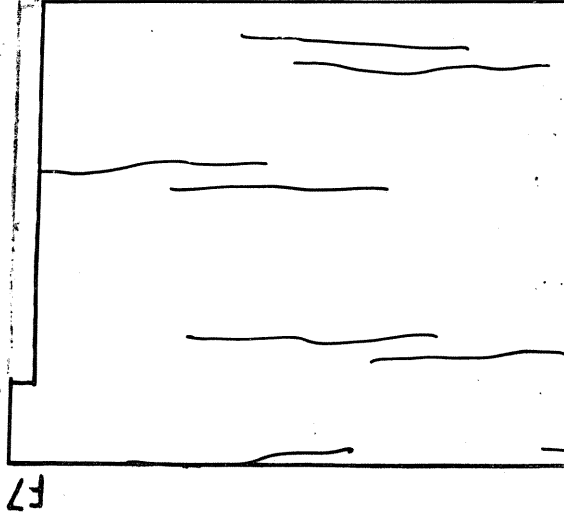
planeplans@
lineone.net

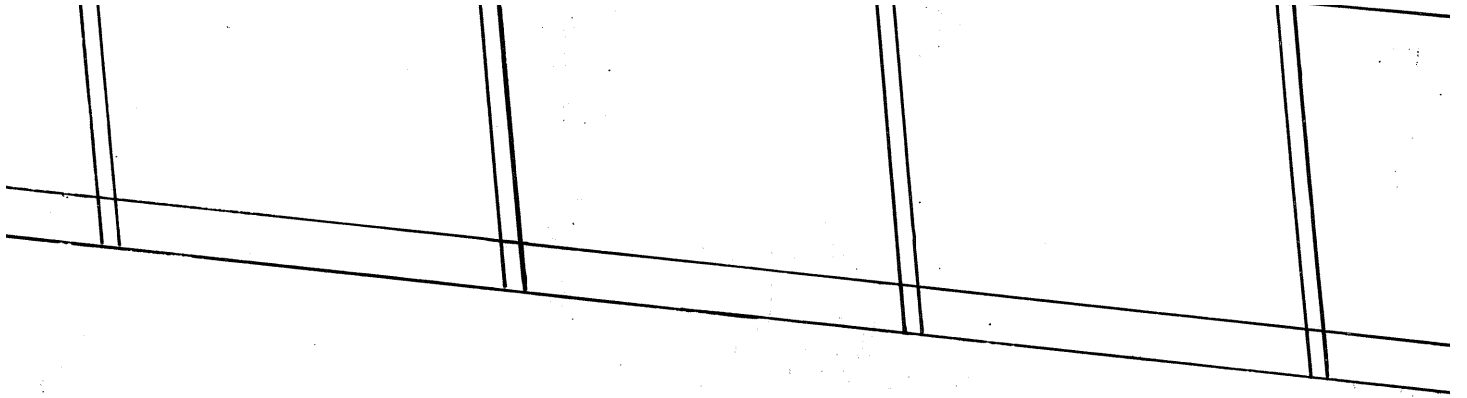
1/4" EACH WAY
AILERON ONLY, PITCH IS
THE SAME SETTING

NOTE:
PLEASE VISIT MY WEBSITE
TO VIEW AN ON-LINE BUILDING
SEQUENCE WITH PHOTO'S & TEXT.
SEE BOX ABOVE FOR U.R.L.

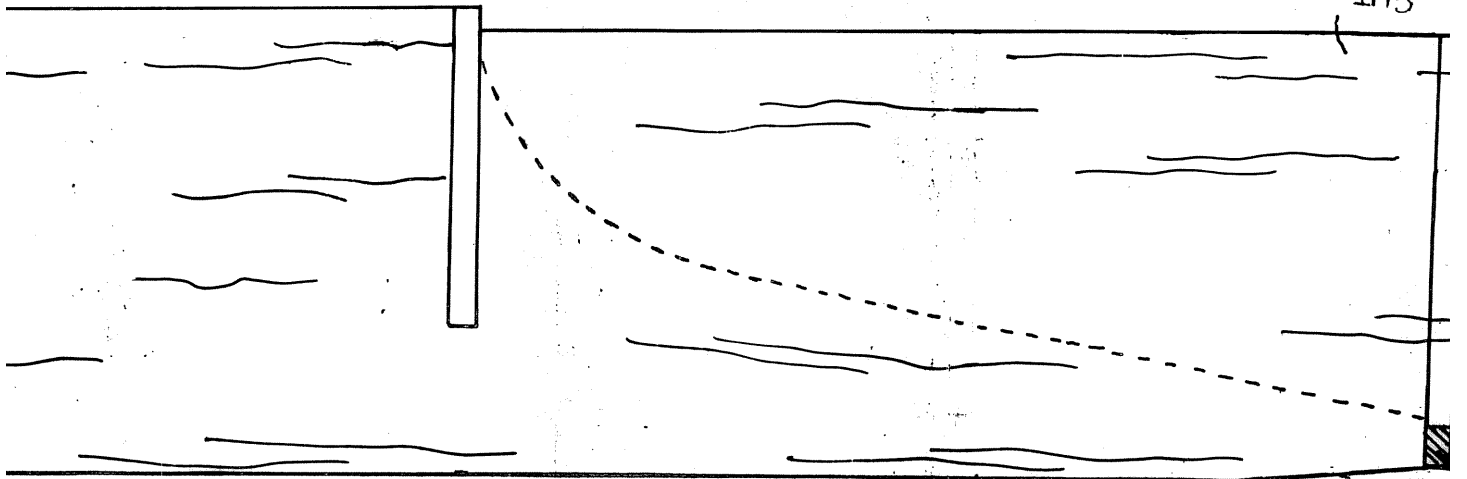
IF YOU WOULD LIKE TO BUILD A LARGER
VERSION TO USE 90MM FANS,
TAKE THIS COPY TO YOUR COPY SHOP, ASK
FOR A 123% ENLARGEMENT. THIS WILL
SCALE THE MODEL BY A PHYSICAL 23%
BIGGER.

THE LARGER VERSION CAN BE CONVERTED
TO USE SPRING AIR MICRO RETRACTS.
LARGER CANOPY IS NOW AVAILABLE!





CUT
FORWARD
FUS. SIDES
FROM 1/8" BALSA



96

95

