

SPORTY

DESIGNED BY
J. S. HUMPHREYS

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THE AEROMODELLER PLANS SERVICE

THE AERODROME, STANBRIDGE, NR LEIGHTON BUZZARD, BEDS.

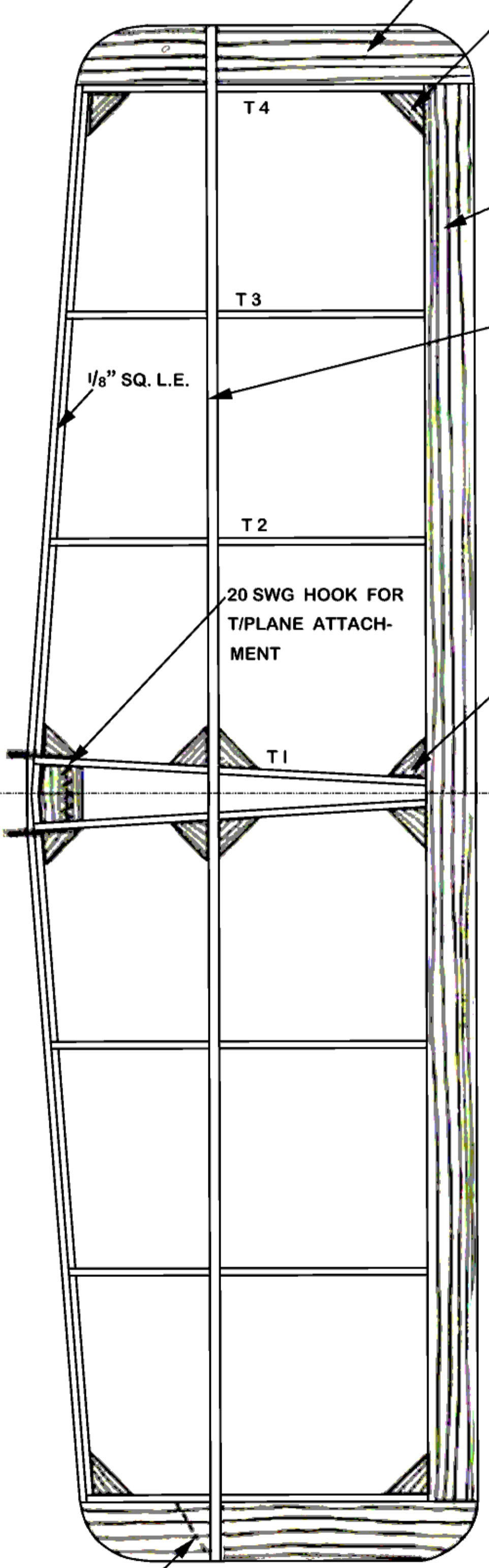
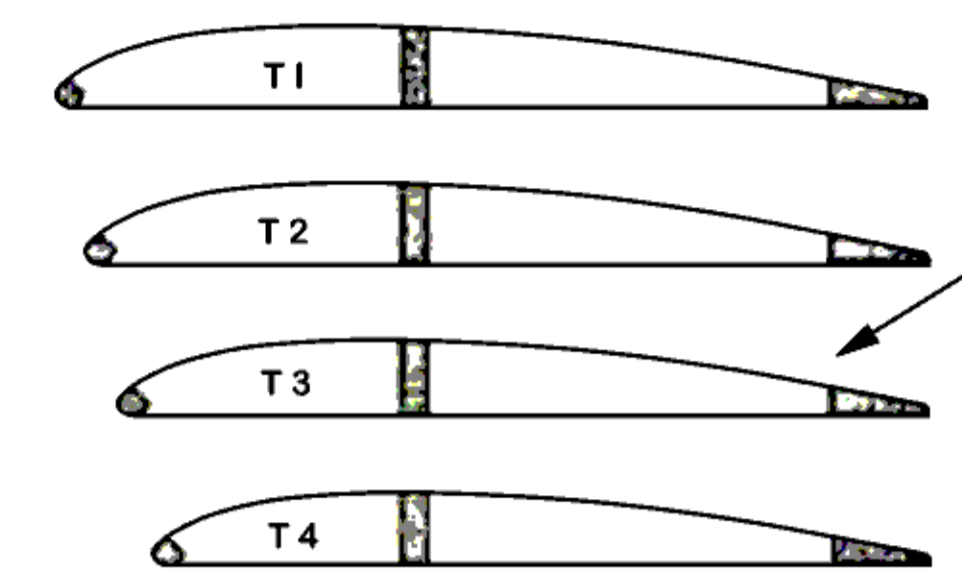
ALL WOODS ARE BALSA UNLESS OTHERWISE STATED



POWER
ANY DIESEL OR GLOW-PLUG
ENGINE FROM 1CC - 2CC

PYLON FROM 2 OUTSIDE LAMINATIONS
CROSS GRAINED OF 1/8" SHEET &
ONE CENTRE PIECE OF 1MM PLY
GRAIN RUNS VERTICALLY

MATERIALS REQUIRED	
10 STRIPS OF 1/8" x 1/8" x 36" BALSA	1 SHEET OF 3/32" x 2' x 6" BALSA
3 " " " 1/8" x 3/8" x 36"	1 " " " 1/8" x 3' x 36"
2 " " " 1/8" x 1/2" x 36"	MISCELLANEOUS
2 " " " 1/4" x 3/8" x 36"	150 FT OF 1MM PLY
	4' x 3' OF 2MM "
1 SHEET OF 1/32" x 3' x 36" BALSA	6' x 2' x 1/2" BALSA BLOCK
2 " " " 1/16" x 3' x 36"	18' OF 14 SWG PIANO WIRE
	6' OF 20 " " "



TAPER SPAR FROM T4 TO TIP

ELFIN 1.8 CC SHOWN

ALL TAILPLANE RIBS
FROM 1/16" SHEET

1/16" SHEET TIP

1/8" SHEET GUSSETS

T4

1/8" x 1/2" T.E.

1/8" x 3/8" SPAR

1/8" SQ. L.E.

T2

20 SWG HOOK FOR
T/PLANE ATTACHMENT

1/8" SHEET GUSSETS

T1

1 OFF 1MM PLY
1 " 2MM "

CEMENT TOGETHER

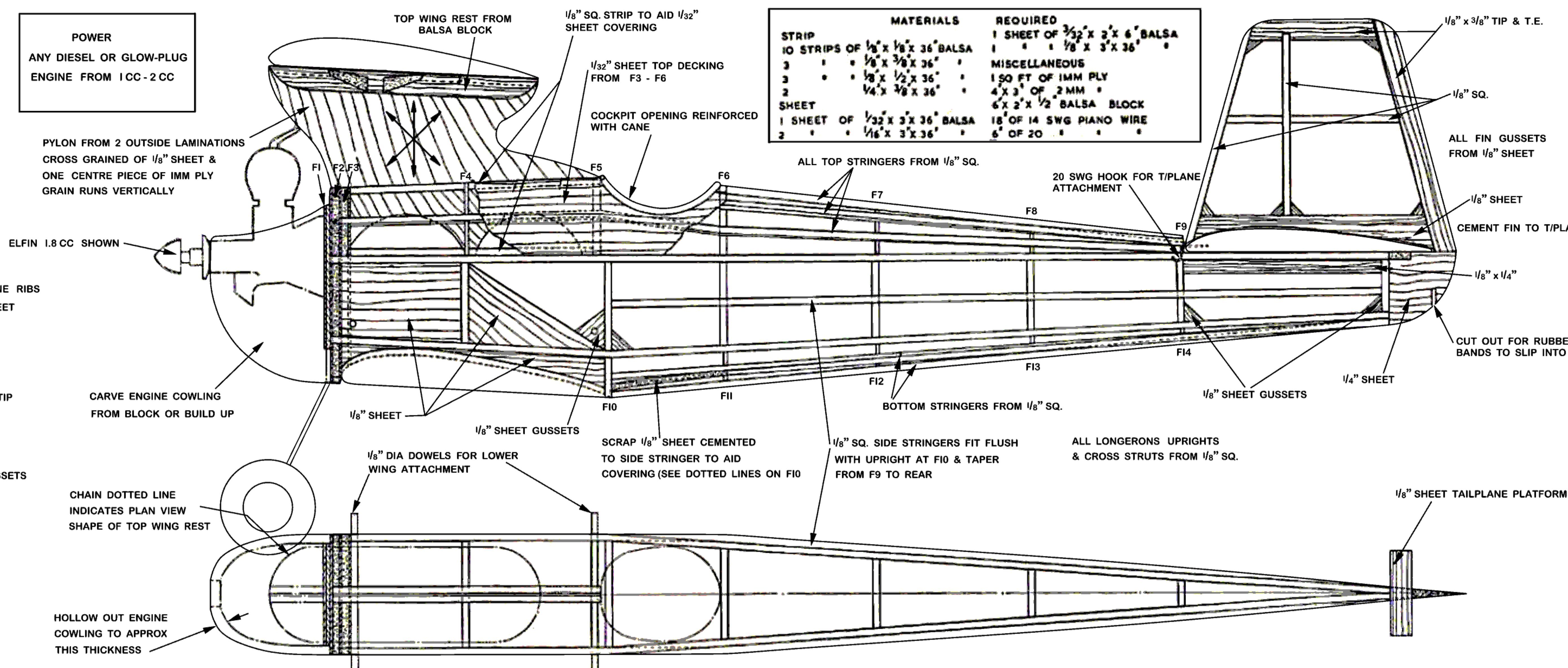
14 SWG 1/16" MUST BE TIGHT
FIT IN SLOT CUT OUT OFF 2MM
PLY FORMER

3/4" DIA. WHEELS

BOTH WINGS ARE IDENTICAL EXCEPT
WHERE OTHERWISE STATED

L.E. 1/4" x 3/8" T.E. 1/8" x 1/2" REARSPAR 1/8" SQ.

WINGTIPS 3/32" SHEET



CARVE ENGINE COWLING
FROM BLOCK OR BUILD UP

1/8" SHEET

1/8" SHEET GUSSETS

1/8" DIA DOWELS FOR LOWER
WING ATTACHMENT

CHAIN DOTTED LINE
INDICATES PLAN VIEW
SHAPE OF TOP WING REST

HOLLOW OUT ENGINE
COWLING TO APPROX
THIS THICKNESS

TOP WING REST FROM
BALSA BLOCK

1/8" SQ. STRIP TO AID 1/32"
SHEET COVERING

1/32" SHEET TOP DECKING
FROM F3 - F6

COCKPIT OPENING REINFORCED
WITH CANE

ALL TOP STRINGERS FROM 1/8" SQ.

20 SWG HOOK FOR T/PLANE
ATTACHMENT

1/8" SQ. SIDE STRINGERS FIT FLUSH
WITH UPRIGHT AT F10 & TAPER
FROM F9 TO REAR

ALL LONGERONS UPRIGHTS
& CROSS STRUTS FROM 1/8" SQ.

1/8" x 3/8" TIP & T.E.

1/8" SQ.

ALL FIN GUSSETS
FROM 1/8" SHEET

1/8" SHEET

CEMENT FIN TO T/PLANE

1/8" x 1/4"

CUT OUT FOR RUBBER
BANDS TO SLIP INTO

1/4" SHEET

1/8" SHEET GUSSETS

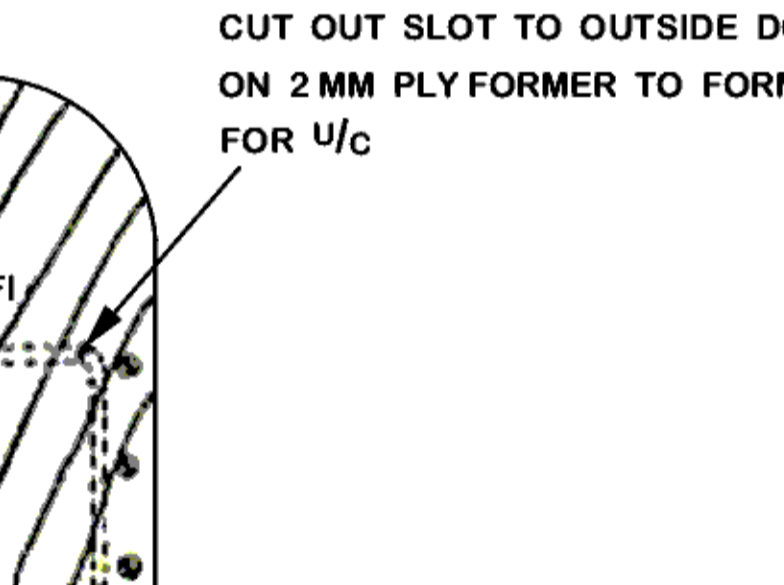
1/8" SHEET TAILPLANE PLATFORM

FORMERS F5 F6 & F10 FROM 1/8" SHEET

FORMERS F4 F7 F8 F9 F11 F12 F13 & F14
FROM 1/16" SHEET

SMALL WOODSCREWS

CUT OUT SLOT TO OUTSIDE DOTTED LINE
ON 2MM PLY FORMER TO FORM BOX
FOR 1/16"



1 OFF 1MM PLY
1 " 2MM "

CEMENT TOGETHER

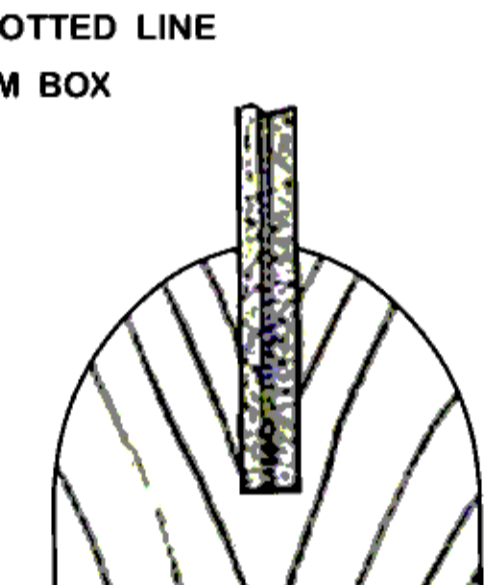
14 SWG 1/16" MUST BE TIGHT
FIT IN SLOT CUT OUT OFF 2MM
PLY FORMER

3/4" DIA. WHEELS

BOTH WINGS ARE IDENTICAL EXCEPT
WHERE OTHERWISE STATED

L.E. 1/4" x 3/8" T.E. 1/8" x 1/2" REARSPAR 1/8" SQ.

WINGTIPS 3/32" SHEET



2 OUTSIDE LAMINATIONS
OF 1MM PLY & ONE CENTRE
PIECE OF 1/8" SHEET

1 OFF 1/8" SHEET
1 OFF 1MM PLY
CEMENT TOGETHER

CUT 5 OFF TO DOTTED
LINE FOR TOP WING

DIHEDRAL KEEPER
10 OFF 1/16" HARD SHEET

THESE 2 RIBS FROM 1/8" SHEET BOTTOM WING ONLY

THESE TWO RIBS TOP
WING ONLY

DOTTED LINES SHOW SCRAP 1/8" SHEET FAIRING
TO AID COVERING

REINFORCE WITH GUSSET

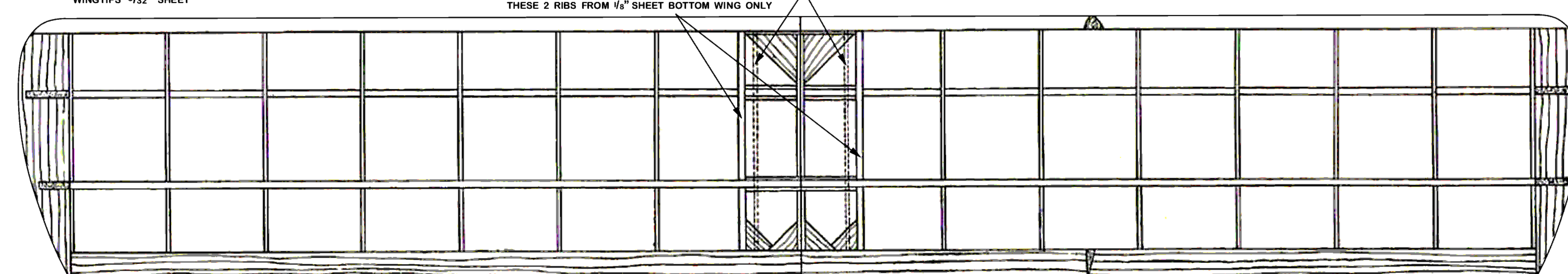
WING TIP SET AT ANGLE
SHOWN

MAIN WING RIB 30 OFF 1/16" SHEET 2 OFF 1/8" SHEET

CENTRE SECTION RIB 4 OFF 1/16" SHEET

ALL GUSSETS IN WING
CENTRE SECTION 1/8" SHEET

COVER FIRST 2 BAYS OF BOTTOM WING TOP ONLY WITH 1/32" SHEET
" " " " TOP " TOP & BOTTOM " " "



ALL GUSSETS IN WING
CENTRE SECTION 1/8" SHEET

COVER FIRST 2 BAYS OF BOTTOM WING TOP ONLY WITH 1/32" SHEET
" " " " TOP " TOP & BOTTOM " " "