AN 8FT. SPAN OWER MODEL SUITABLE FOR RADIO CONTROL

MERCURY

Designed by

R.H. SMITH

12'6

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38 CLARENDON RD. WATFORD HERTS

ALL WOODS UNLESS OTHERWISE STATED ARE BALSA

DATA

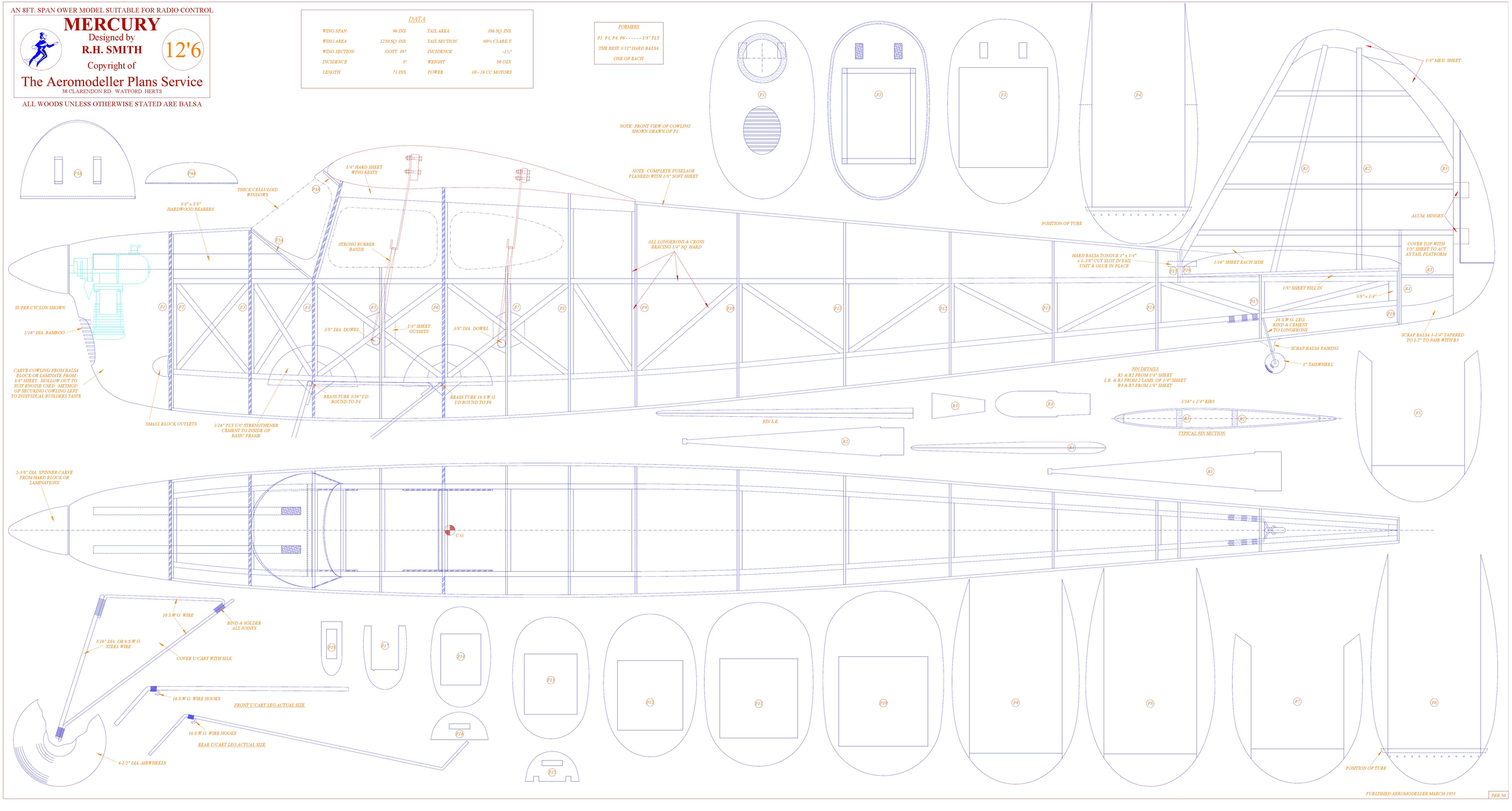
WING SPAN	96 INS.	TAIL AREA	356 SQ. INS.
WING AREA	1250 SQ. INS.	TAIL SECTION	60% CLARK Y
WING SECTION	GOTT. 497	INCIDENCE	-1½°
INCIDENCE	3°	WEIGHT	80 OZS.
LENGTH	71 INS.	POWER	10 - 16 CC MOTORS

FORMERS

F1, F3, F4, F6 - - - - - - 1/8" PLY

THE REST 3/32" HARD BALSA

ONE OF EACH



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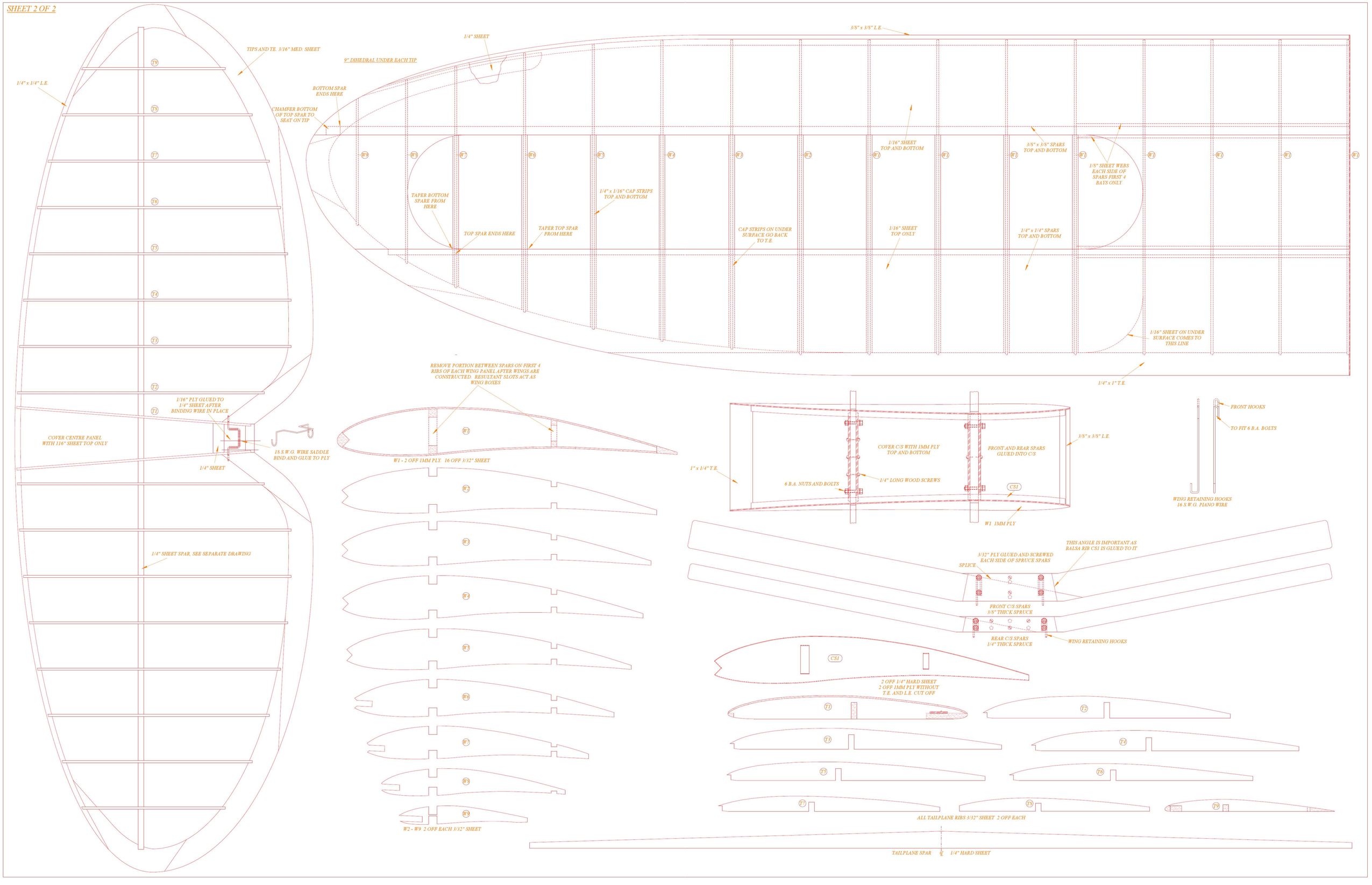
SHEET 2 OF 2


TIPS AND TE. 3/16" MED. SHEET
1/4" x 1/4" L.E.
T9
T8
T7
T6
T5
T4
T3
T2
T1
COVER CENTRE PANEL WITH 116" SHEET TOP ONLY
1/16" PLY GLUED TO 1/4" SHEET AFTER BINDING WIRE IN PLACE
18 S.W.G. WIRE SADDLE BIND AND GLUE TO PLY
1/4" SHEET
1/4" SHEET SPAR, SEE SEPARATE DRAWING
9" DIHEDRAL UNDER EACH TIP
1/4" SHEET
3/8" x 3/8" L.E.
BOTTOM SPAR ENDS HERE
CHAMFER BOTTOM OF TOP SPAR TO SEAT ON TIP
W9
W8
W7
W6
W5
W4
W3
W2
W1
TAPER BOTTOM SPARE FROM HERE
TOP SPAR ENDS HERE
TAPER TOP SPAR FROM HERE
1/4" x 1/16" CAP STRIPS TOP AND BOTTOM
CAP STRIPS ON UNDER SURFACE GO BACK TO T.E.
1/16" SHEET TOP AND BOTTOM
1/16" SHEET TOP ONLY
3/8" x 3/8" SPARS TOP AND BOTTOM
1/4" x 1/4" SPARS TOP AND BOTTOM
1/8" SHEET WEBS EACH SIDE OF SPARS FIRST 4 BAYS ONLY
1/16" SHEET ON UNDER SURFACE COMES TO THIS LINE
1/4" x 1" T.E.
REMOVE PORTION BETWEEN SPARS ON FIRST 4 RIBS OF EACH WING PANEL AFTER WINGS ARE CONSTRUCTED. RESULTANT SLOTS ACT AS WING BOXES
W1 - 2 OFF 1MM PLY. 16 OFF 3/32" SHEET
W2 - W9 2 OFF EACH 3/32" SHEET
1" x 1/4" T.E.
COVER C/S WITH 1MM PLY TOP AND BOTTOM
FRONT AND REAR SPARS GLUED INTO C/S
3/8" x 3/8" L.E.
6 B.A. NUTS AND BOLTS
1/4" LONG WOOD SCREWS
CS1
W1 1MM PLY
FRONT HOOKS
TO FIT 6 B.A. BOLTS
WING RETAINING HOOKS 16 S.W.G. PIANO WIRE
THIS ANGLE IS IMPORTANT AS BALSA RIB CS1 IS GLUED TO IT
3/32" PLY GLUED AND SCREWED EACH SIDE OF SPRUCE SPARS
SPLICE
FRONT C/S SPARS 3/8" THICK SPRUCE
REAR C/S SPARS 1/4" THICK SPRUCE
WING RETAINING HOOKS
CS1
2 OFF 1/4" HARD SHEET 2 OFF 1MM PLY WITHOUT T.E. AND L.E. CUT OFF
ALL TAILPLANE RIBS 3/32" SHEET 2 OFF EACH
TAILPLANE SPAR ℄ 1/4" HARD SHEET