NOTE. THE USE OF A LARGE AIRBORNE BATTERY PACK (1200 MAH) IS RECOMMENDED

NOTE HEAT ENDS OF 7/32" MUSIC WIRE CABANE STRUTS WITH PROPANE TORCH AND HAMMER ENDS FLAT. DRILL HOLE IN FLAT PORTION TO ACCEPT 6-32 MOUNTING SCREW

1/16" MUSIC WIRE - CENTER SUPPORT

AXLE ASSEMBLY (SEE DETAIL)

18" DIA - 6" PITCH PROPELLER

CG

SEE NOTE ABOVE

HARDWOOD CABANE MOUNTING BLOCKS

6-32 MACHINE SCREW & BLIND NUT

5/16" X 3/4" HARDWOOD CABANE STRUT RETAINER BLOCK

7/32" MUSIC WIRE - CABANE STRUTS

CUT 7/32" SQ GROOVE IN TOP OF FIREWALL (FI) TO ACCEPT FRONT CABANE STRUT WIRE

SHEET BALSA - CABANE STRUT FAIRINGS (CONTOUR TO AIRFOIL SHAPE)

NOTE GUSSET ALL CORNERS AND WRAP WITH GLASS CLOTH AND RESIN - REAR CABANE STRUTS

1/4" HARDWOOD DOWEL: AILERON PUSHROD COUPLER

3/16" X 1/16" HARDWOOD BLOCK

1/8" PLYWOOD - STIFFENER

COCKPIT COAMING - MAKE FROM BLACK NEOPRENE FUEL TUBING

1/32" PLYWOOD

HARDWOOD HATCH RETAINER BLOCK

FIBERGLASS COWL OUTLINE (SEE COWL DETAILS ON SHEET 3)

REMOVABLE HATCH LINE

3/16" SQ SPRUCE STRINGERS

1/8"

FTI FT2 FT3 FT4 FT5 FT6

CB (NO 5311), ENGINE MOUNT

3/16" X 1/4" SPRUCE

1/8" MAHOGANY PLYWOOD

1/2" X 3/4" HARDWOOD CABANE STRUT BLOCK

5/16" SQ

QUADRA ENGINE

FI

LIGHTENING HOLE

3/16" X 3/4" HARDWOOD BLOCK

3/16" SQ SPRUCE STRINGERS

FSI FS2 FS3 FS4

1/8" PLYWOOD FUSELAGE SIDE PIECES END HERE

1/32" PLYWOOD SKIN

1/8" PLYWOOD FLOOR

0°

3/4" X 1" HARDWOOD BLOCK

SMALL (1" LONG) EYE BOLT

1/16" MUSIC WIRE

FBI

SPRUCE FAIRINGS

REAR (BOTTOM WING) SPAR

1/2" X 1" HARDWOOD LANDING GEAR BLOCK ADD HARDWOOD GUSSETS AT ALL CORNERS

5/16" X 1" HARDWOOD BLOCK

FRONT (BOTTOM WING) SPAR

NOTE SEE SHEET 3 FOR BOTTOM WING TIP SKID DETAILS

1/2" X 1" HARDWOOD LANDING GEAR BLOCK (CUT 7/32" SQ GROOVES TO ACCEPT FRONT LANDING GEAR LEGS)

5/16" X 1 1/2" HARDWOOD BLOCK

1/32" PLYWOOD SKIN

7/32" MUSIC WIRE

9/16" OD WASHERS

SILVER SOLDER INNER WASHER TO AXLE

BEND WITH SIG 1/4 SCALE RUBBER BANDS TO LANDING GEAR UPRIGHTS (BUNGEE

1/8" MUSIC WIRE - WRAP WITH COPPER WIRE & SILVER SOLDER AS SHOWN

COTTER PIN

1/16" DIA HOLE

7/32" ID BRASS TUBING - SILVER SOLDER TO AXLE

WILLIAMS BROS "GOLDEN AGE" 6 1/2" WHEELS

SUGGESTED FUEL TANK SIZE 16 OUNCE

NOTE RADIO SYSTEM COMPONENTS ARE NOT SHOWN, AS THERE IS CAVERNOUS SPACE WITHIN THE FUSELAGE TO ACCEPT ANY RADIO SYSTEM. THE SYSTEM COMPONENTS SHOULD BE SITUATED AS FAR FORWARD AS POSSIBLE, IN ORDER TO MINIMIZE THE AMOUNT OF WEIGHT THAT MUST BE ADDED TO THE NOSE, TO OBTAIN THE PROPER CG.

LANDING GEAR

LANDING

1/4" HARDWOOD DOWEL

ROUND TOOTH PICK

2-56 MACHINE SCREW W/ LOCK NUT

9/32" O.D. BRASS TUBING

DRILL HOLES

CUT SLOT

BRASS AILERON PLATE (SEE SHEET 2 FOR DETAILS)

RADIUS END AFTER ASSEMBLING

AILERON COUPLER PUSHROD CONNECTION DETAIL

NO SCALE

7/32" MUSIC WIRE

INSTALL BUNGEE CORDS HERE

GEMENT SKETCH

(REAR)

(FRONT)

WIRE CABANE STRUT DETAIL

NO SCALE

NGER (OTHER STRINGERS NOT SHOWN)

5 LAMINATIONS - 1/16" X 1/4" SPRUCE OR (BALSA)

HINGE

1/4" SQ BALSA

1/4" SQ SPRUCE - TAIL WIRE BRACE ATTACHMENT BLOCK

1/4" SQ SPRUCE

1/4" SQ SPRUCE

1/4" SQ BALSA

1/4" SQ BALSA

ALL VERTICAL FIN & RUDDER GUSSETS ARE 1/4" BALSA SHEET (EXCEPT WHERE NOTED OTHERWISE)

1/8" MUSIC WIRE - VERTICAL FIN POST

FT7 FT8 FT9 FT10 0°

1/16" MUSIC WIRE HOOK - SILVER SOLDER TO SKID POST

1/4" PLYWOOD

3/16" PLYWOOD - POST SUPPORT

BUNGEE CORD - USE RUBBER BANDS

1/4" SQ SPRUCE

1/4" PLYWOOD GUSSET

1/4" SQ SPRUCE (VERTICAL & DIAGONAL BRACING)

PROCTOR (NO. 318-A) RUDDER & ELEVATOR CONTROL HORNS

7/32" MUSIC WIRE - SKID POST (FILE EXPOSED PORTION SQUARE)

ROUND TOOTH PICK

4-40 MACHINE SCREW W LOCK NUT

.064" BRASS SKID HINGE (BEND AS SHOWN)

1/32" PLYWOOD - GUSSETS

5/16" SQ SPRUCE

3/8" SPRUCE - TAIL SKID

SMALL SCREWS

.064 BRASS "WEAR" PLATE

SHADING DENOTES BASIC FUSELAGE SIDE FRAMEWORK

1/32" PLYWOOD - SKIN

FTI

5/16" X 3/4" SPRUCE - CABANE BLOCK

FI

5/16" SQ SPRUCE - BASIC FUSELAGE SIDE FRAMEWORK

FSI FSI

3/16" SQ SPRUCE - STRINGERS

CB (NO 5311) ENGINE MOUNT

FBI

COOLING AIR OPENING

5/16" X 1 1/2" SPRUCE - LANDING GEAR RETAINER BLOCK

SECTION VIEW AT FIREWALL

BRASS BANDS (.032") - DER TO 3/16" CROSS BRACE 32" AXLE (1/32" SUPPORT CHES BETWEEN BANDS)

WRAP & SILVER SOLDER 3/16" MUSIC WIRE CROSS BRACES TO LANDING GEAR UPRIGHTS.

7/32" AXLE ENDS HERE

DETAIL

MAMMOTH SCALE

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SOPWITH PUP

A 28% SPORT SCALE DESIGN

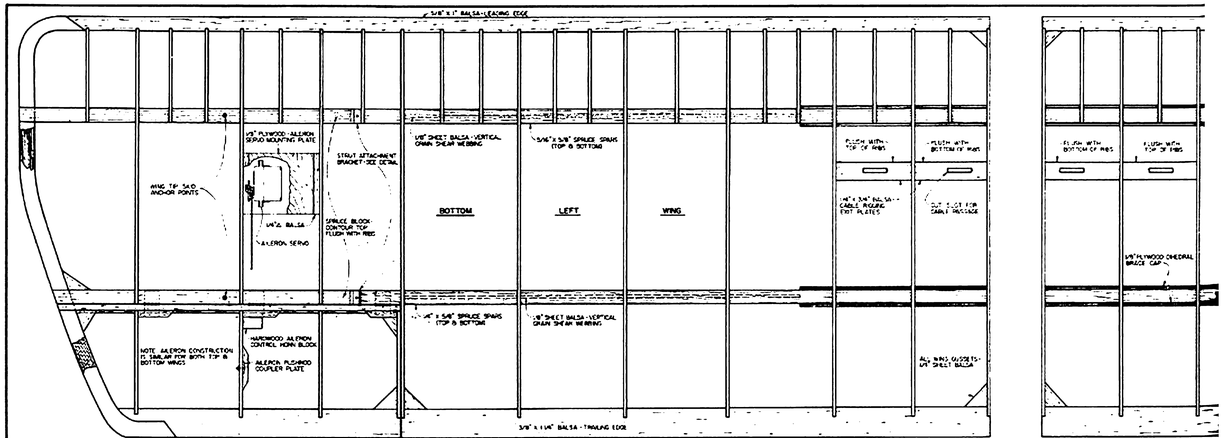
DESIGNED BY JOSEPH BUKOVCHIK

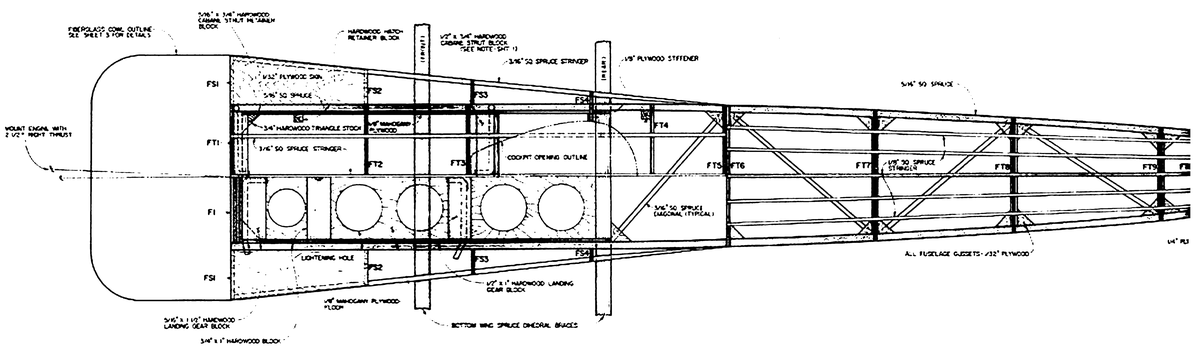
PLANS BY Bob Wallace

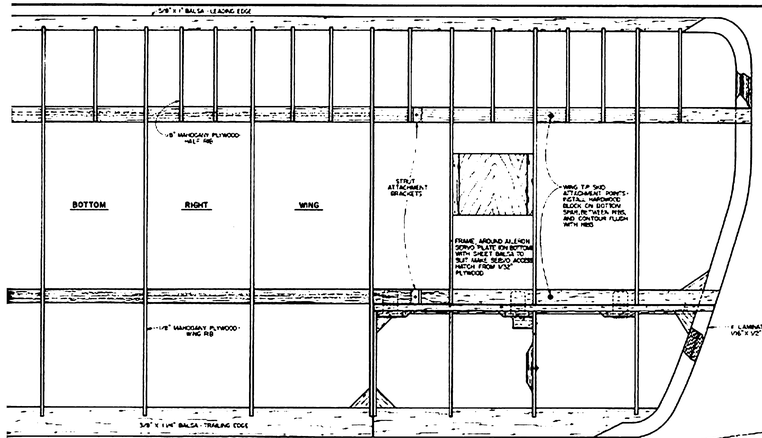
0 1 2 3 4 5 6

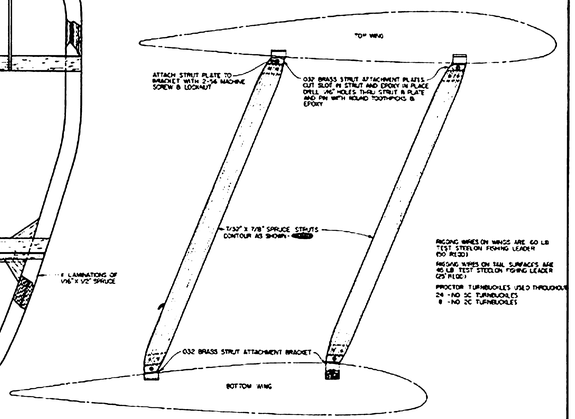
SHEET 1 OF 3

PLAN NO. 844

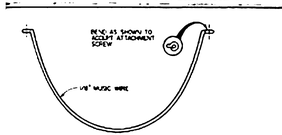




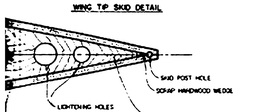


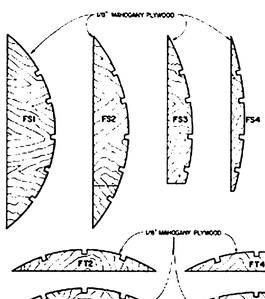


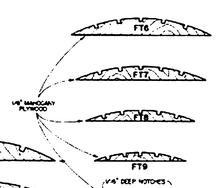
WING STRUT DETAIL

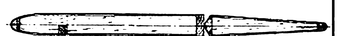


WING TIP SKID DETAIL

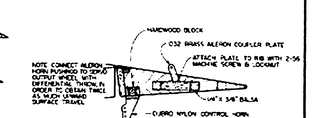








TYPICAL STABILIZER/ELEVATOR CROSS SECTION VIEW



AILERON HORN & PUSHROD COUPLER PLATE DETAIL

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SOPWITH PUP

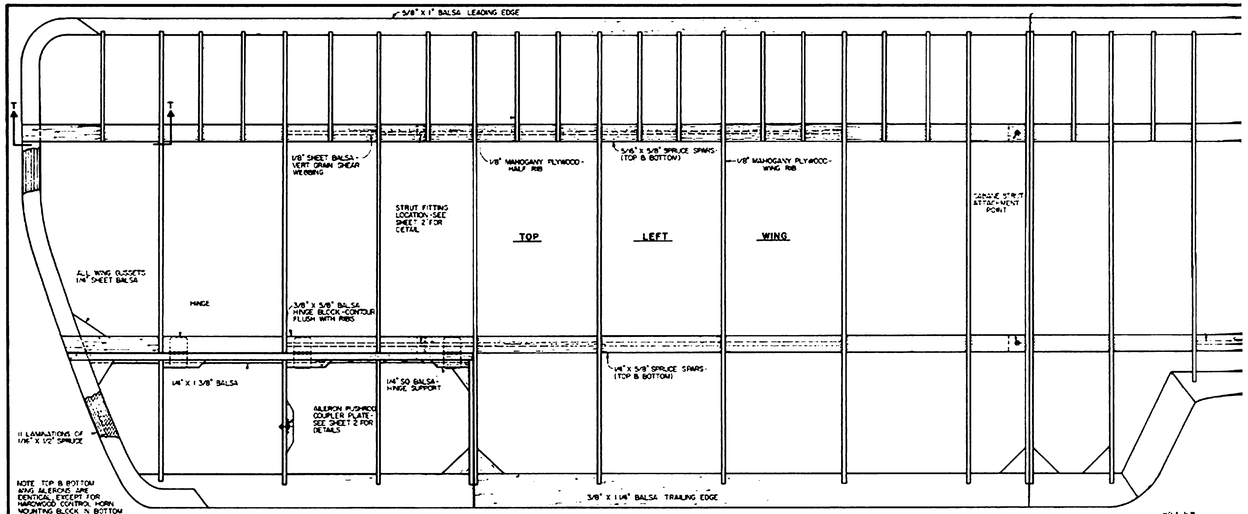
A 29% SPORT SCALE DESIGN

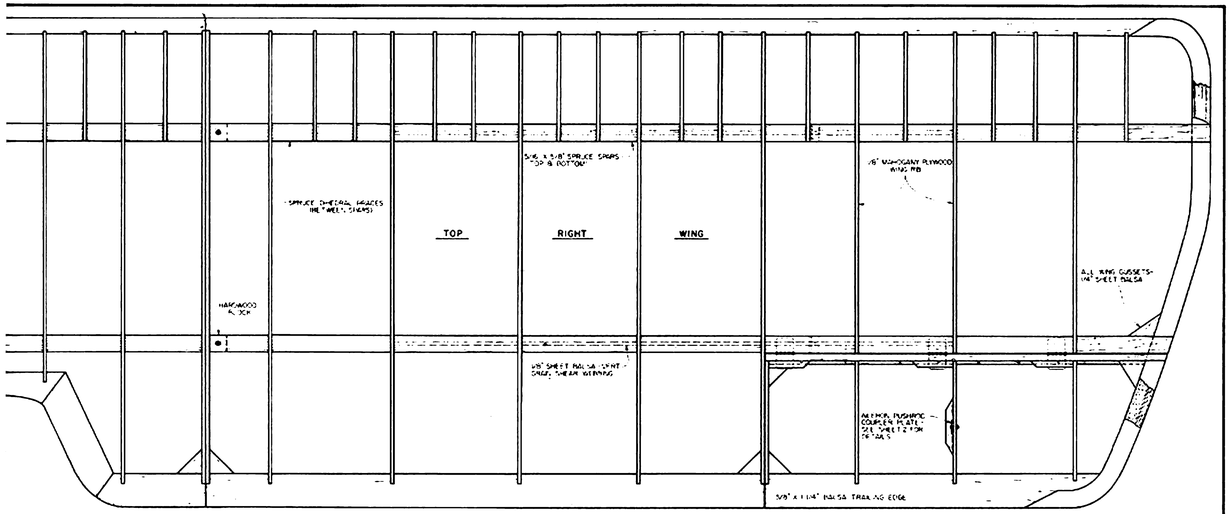
DESIGNED BY: LYDON BLACKMORE

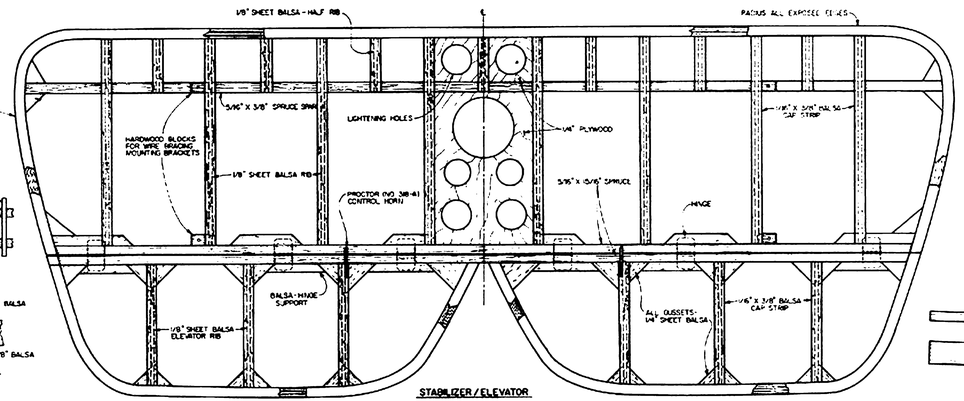
DRAWN BY: Mike Tschetter

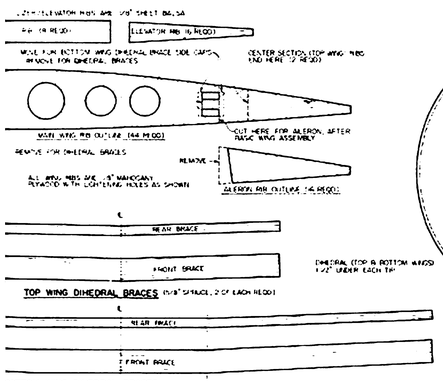
SHEET 2 OF 3

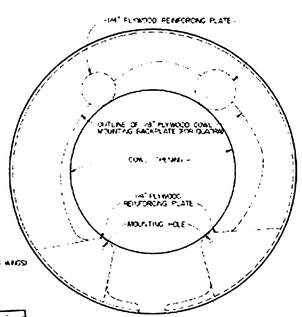
PLAN NO. 844

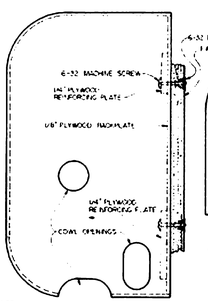


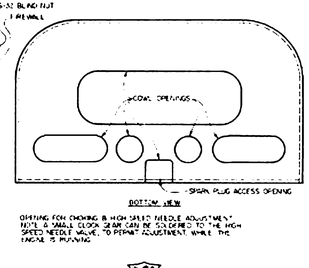












OPPOSITE FOR CHOKING & HIGH SPEED NEEDLE ADJUSTMENT. NOTE: A SMALL CLOCK GEAR CAN BE SOLDERED TO THE HIGH SPEED NEEDLE VALVE, TO PERMIT ADJUSTMENT WHILE THE ENGINE IS RUNNING

FIBERGLASS COWL DETAILS

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SOPWITH PUP

A 78% SCALE DESIGN

DESIGNED BY	PLANS BY
JOSEPH DUNCHON	JOHN DE HAVILLAND

PLAN NO. 844