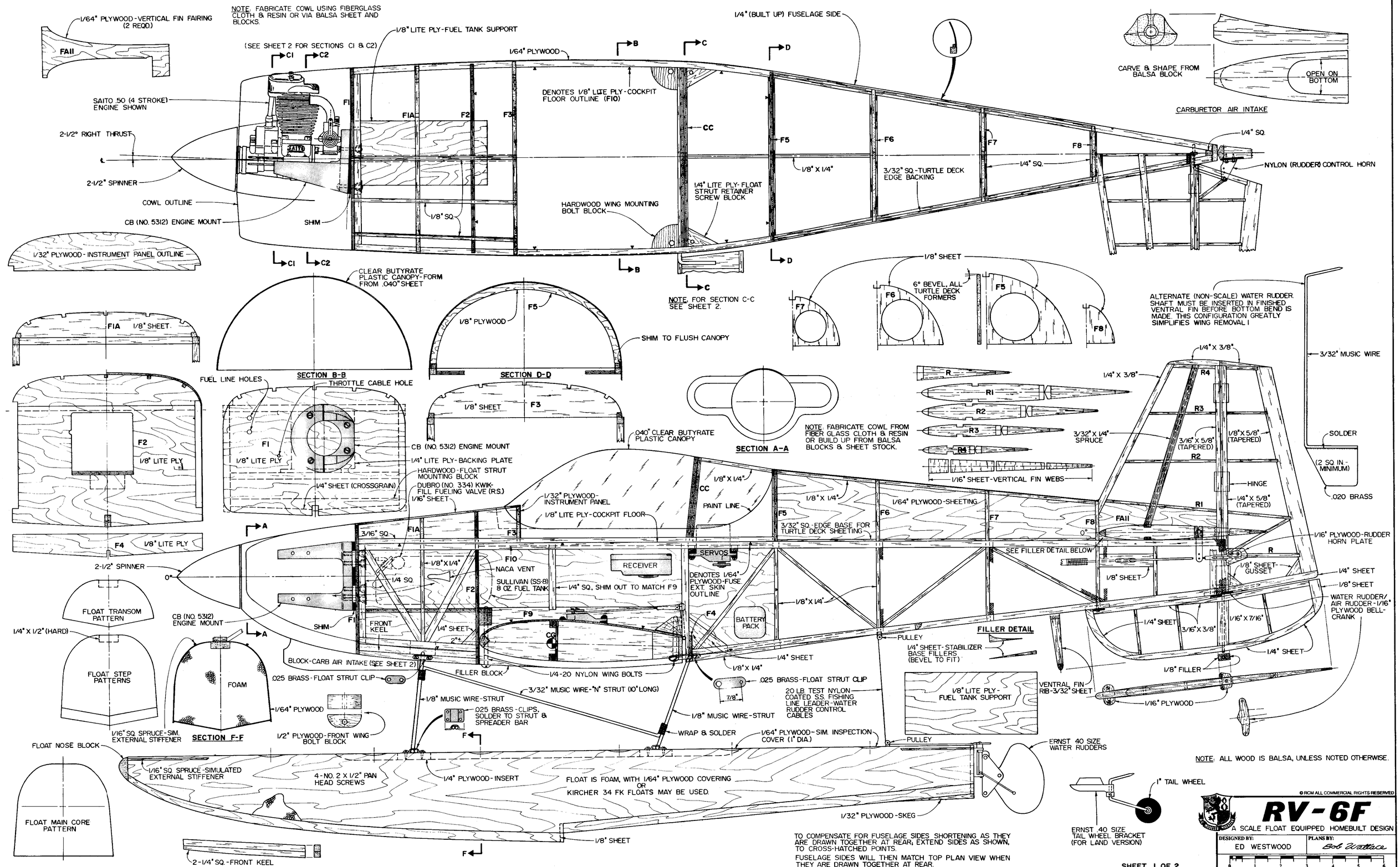
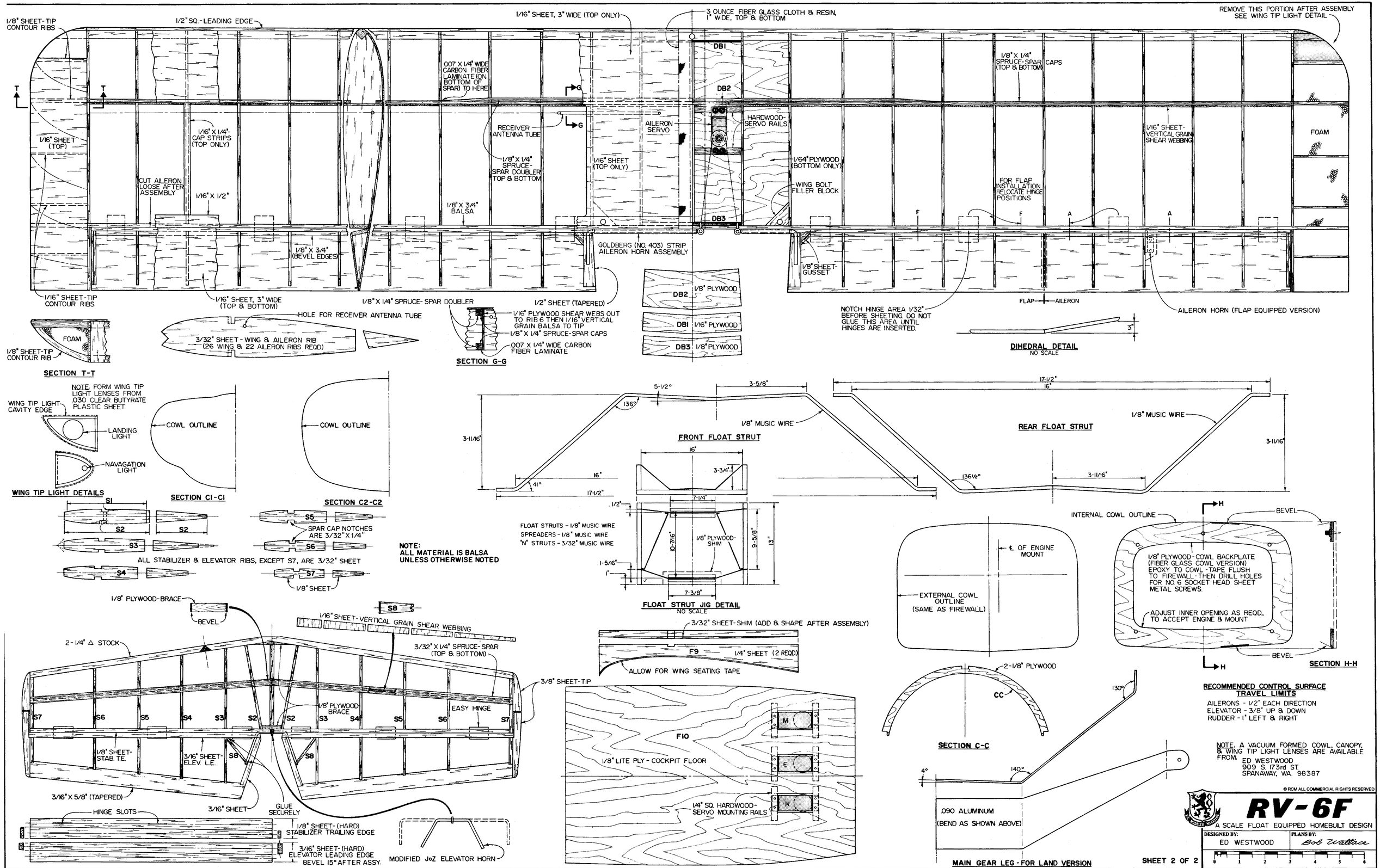

1/64" PLYWOOD-VERTICAL FIN FAIRING (2 REQD.)
FA11
NOTE: FABRICATE COWL USING FIBERGLASS CLOTH & RESIN OR VIA BALSA SHEET AND BLOCKS.
1/8" LITE PLY-FUEL TANK SUPPORT
(SEE SHEET 2 FOR SECTIONS C1 & C2)
C1
C2
1/64" PLYWOOD
B
C
D
1/4" (BUILT UP) FUSELAGE SIDE
CARVE & SHAPE FROM BALSA BLOCK
OPEN ON BOTTOM
CARBURETOR AIR INTAKE
SAITO 50 (4 STROKE) ENGINE SHOWN
F1
F1A
F2
F3
DENOTES 1/8" LITE PLY-COCKPIT FLOOR OUTLINE (F10)
CC
F5
F6
F7
F8
1/4" SQ.
2-1/2° RIGHT THRUST
2-1/2" SPINNER
COWL OUTLINE
CB (NO. 5312) ENGINE MOUNT
SHIM
1/8" SQ.
1/8" X 1/4"
1/4" SQ.
3/32" SQ.-TURTLE DECK EDGE BACKING
NYLON (RUDDER) CONTROL HORN
1/4" LITE PLY-FLOAT STRUT RETAINER SCREW BLOCK
HARDWOOD WING MOUNTING BOLT BLOCK
1/32" PLYWOOD-INSTRUMENT PANEL OUTLINE
NOTE: FOR SECTION C-C SEE SHEET 2.
1/8" SHEET
6° BEVEL, ALL TURTLE DECK FORMERS
ALTERNATE (NON-SCALE) WATER RUDDER. SHAFT MUST BE INSERTED IN FINISHED VENTRAL FIN BEFORE BOTTOM BEND IS MADE. THIS CONFIGURATION GREATLY SIMPLIFIES WING REMOVAL!
CLEAR BUTYRATE PLASTIC CANOPY-FORM FROM .040" SHEET
F1A 1/8" SHEET
SECTION B-B
1/8" PLYWOOD
SHIM TO FLUSH CANOPY
SECTION D-D
1/4" X 3/8"
3/32" MUSIC WIRE
FUEL LINE HOLES
THROTTLE CABLE HOLE
1/8" SHEET
.040" CLEAR BUTYRATE PLASTIC CANOPY
SECTION A-A
NOTE: FABRICATE COWL FROM FIBER GLASS CLOTH & RESIN OR BUILD UP FROM BALSA BLOCKS & SHEET STOCK.
R
R1
R2
R3
R4
3/32" X 1/4" SPRUCE
3/16" X 5/8" (TAPERED)
1/8" X 5/8" (TAPERED)
SOLDER
(2 SQ. IN.-MINIMUM)
.020 BRASS
1/8" LITE PLY
CB (NO. 5312) ENGINE MOUNT
1/4" LITE PLY-BACKING PLATE
HARDWOOD-FLOAT STRUT MOUNTING BLOCK
1/4" SHEET (CROSSGRAIN)
DUBRO (NO. 334) KWIK-FILL FUELING VALVE (R.S.) 1/16" SHEET
1/16" SHEET-VERTICAL FIN WEBS
HINGE
1/4" X 5/8" (TAPERED)
1/32" PLYWOOD-INSTRUMENT PANEL
1/8" LITE PLY-COCKPIT FLOOR
PAINT LINE
1/64" PLYWOOD-SHEETING
3/32" SQ.-EDGE BASE FOR TURTLE DECK SHEETING
1/16" PLYWOOD-RUDDER HORN PLATE
SEE FILLER DETAIL BELOW
F4 1/8" LITE PLY
3/16" SQ.
F10
NACA VENT
RECEIVER
SERVOS
1/8" SHEET-GUSSET
1/4" SHEET
1/8" SHEET
2-1/2" SPINNER
1/4 SQ.
SULLIVAN (SS-8) 8 OZ. FUEL TANK
1/4" SQ., SHIM OUT TO MATCH F9
DENOTES 1/64" PLYWOOD-FUSE. EXT. SKIN OUTLINE
WATER RUDDER/ AIR RUDDER-1/16" PLYWOOD BELL-CRANK
FLOAT TRANSOM PATTERN
CB (NO. 5312) ENGINE MOUNT
SHIM
FRONT KEEL
F9
BATTERY PACK
1/16" X 7/16"
3/16" X 3/8"
1/4" X 1/2" (HARD)
1/4" SHEET
2°±
PULLEY
FILLER DETAIL
1/4" SHEET-STABILIZER BASE FILLERS (BEVEL TO FIT)
FLOAT STEP PATTERNS
FOAM
BLOCK-CARB AIR INTAKE (SEE SHEET 2)
FILLER BLOCK
1/4-20 NYLON WING BOLTS
.025 BRASS-FLOAT STRUT CLIP
3/32" MUSIC WIRE-"N" STRUT (10" LONG)
20 LB. TEST NYLON COATED S.S. FISHING LINE LEADER-WATER RUDDER CONTROL CABLES
1/8" FILLER
VENTRAL FIN RIB-3/32" SHEET
1/8" LITE PLY-FUEL TANK SUPPORT
1/16" PLYWOOD
1/64" PLYWOOD
1/8" MUSIC WIRE-STRUT
.025 BRASS-CLIPS, SOLDER TO STRUT & SPREADER BAR
7/8"
1/16" SQ. SPRUCE-SIM. EXTERNAL STIFFENER
SECTION F-F
1/2" PLYWOOD-FRONT WING BOLT BLOCK
WRAP & SOLDER
1/64" PLYWOOD-SIM. INSPECTION COVER (1" DIA.)
PULLEY
ERNST 40 SIZE WATER RUDDERS
FLOAT NOSE BLOCK
1/16" SQ. SPRUCE-SIMULATED EXTERNAL STIFFENER
4-NO. 2 X 1/2" PAN HEAD SCREWS
1/4" PLYWOOD-INSERT
FLOAT IS FOAM, WITH 1/64" PLYWOOD COVERING OR KIRCHER 34 FK FLOATS MAY BE USED.
1/32" PLYWOOD-SKEG
NOTE: ALL WOOD IS BALSA, UNLESS NOTED OTHERWISE.
1" TAIL WHEEL
ERNST 40 SIZE TAIL WHEEL BRACKET (FOR LAND VERSION)
FLOAT MAIN CORE PATTERN
1/8" SHEET
2-1/4" SQ.-FRONT KEEL
TO COMPENSATE FOR FUSELAGE SIDES SHORTENING AS THEY ARE DRAWN TOGETHER AT REAR, EXTEND SIDES AS SHOWN, TO CROSS-HATCHED POINTS.
FUSELAGE SIDES WILL THEN MATCH TOP PLAN VIEW WHEN THEY ARE DRAWN TOGETHER AT REAR.
SHEET 1 OF 2
© RCM ALL COMMERCIAL RIGHTS RESERVED
RV-6F
A SCALE FLOAT EQUIPPED HOMEBUILT DESIGN
DESIGNED BY: ED WESTWOOD
PLANS BY: Bob Wallace
PLAN NO 12332


1/8" SHEET-TIP CONTOUR RIBS
1/2" SQ.-LEADING EDGE
1/16" SHEET, 3" WIDE (TOP ONLY)
3 OUNCE FIBER GLASS CLOTH & RESIN, 1" WIDE, TOP & BOTTOM
REMOVE THIS PORTION AFTER ASSEMBLY SEE WING TIP LIGHT DETAIL
DB1
DB2
DB3
.007 X 1/4" WIDE CARBON FIBER LAMINATE (ON BOTTOM OF SPAR) TO HERE
1/8" X 1/4" SPRUCE-SPAR CAPS (TOP & BOTTOM)
1/16" SHEET (TOP)
1/16" X 1/4" CAP STRIPS (TOP ONLY)
RECEIVER ANTENNA TUBE
AILERON SERVO
HARDWOOD-SERVO RAILS
1/16" SHEET-VERTICAL GRAIN SHEAR WEBBING
FOAM
1/8" X 1/4" SPRUCE-SPAR DOUBLER TOP & BOTTOM
1/16" SHEET (TOP ONLY)
1/64" PLYWOOD (BOTTOM ONLY)
CUT AILERON LOOSE AFTER ASSEMBLY
1/16" X 1/2"
WING BOLT FILLER BLOCK
FOR FLAP INSTALLATION RELOCATE HINGE POSITIONS
1/8" X 3/4" BALSA
1/8" X 3/4" (BEVEL EDGES)
GOLDBERG (NO. 403) STRIP AILERON HORN ASSEMBLY
1/8" SHEET-GUSSET
1/16" SHEET-TIP CONTOUR RIBS
1/16" SHEET, 3" WIDE (TOP & BOTTOM)
1/8" X 1/4" SPRUCE-SPAR DOUBLER
1/2" SHEET (TAPERED)
NOTCH HINGE AREA 1/32" BEFORE SHEETING. DO NOT GLUE THIS AREA UNTIL HINGES ARE INSERTED.
FLAP
AILERON
AILERON HORN (FLAP EQUIPPED VERSION)
FCAM
1/8" SHEET-TIP CONTOUR RIB
SECTION T-T
HOLE FOR RECEIVER ANTENNA TUBE
3/32" SHEET-WING & AILERON RIB (26 WING & 22 AILERON RIBS REQD)
1/16" PLYWOOD SHEAR WEBS OUT TO RIB 6 THEN 1/16" VERTICAL GRAIN BALSA TO TIP
1/8" X 1/4" SPRUCE-SPAR CAPS
.007 X 1/4" WIDE CARBON FIBER LAMINATE
SECTION G-G
1/8" PLYWOOD
1/16" PLYWOOD
1/8" PLYWOOD
3"
DIHEDRAL DETAIL
NO SCALE
NOTE: FORM WING TIP LIGHT LENSES FROM .030 CLEAR BUTYRATE PLASTIC SHEET.
WING TIP LIGHT CAVITY EDGE
LANDING LIGHT
NAVAGATION LIGHT
WING TIP LIGHT DETAILS
COWL OUTLINE
COWL OUTLINE
SECTION C1-C1
SECTION C2-C2
S1
S2
S2
S3
S4
S5
S6
S7
SPAR CAP NOTCHES ARE 3/32" X 1/4"
ALL STABILIZER & ELEVATOR RIBS, EXCEPT S7, ARE 3/32" SHEET
1/8" SHEET
NOTE: ALL MATERIAL IS BALSA UNLESS OTHERWISE NOTED
5-1/2°
3-5/8"
136°
1/8" MUSIC WIRE
FRONT FLOAT STRUT
3-11/16"
16"
41°
17-1/2"
17-1/2"
16"
1/8" MUSIC WIRE
REAR FLOAT STRUT
3-11/16"
136½°
3-11/16"
16"
3-3/4"
7-1/4"
1/2"
FLOAT STRUTS - 1/8" MUSIC WIRE
SPREADERS - 1/8" MUSIC WIRE
"N" STRUTS - 3/32" MUSIC WIRE
10-7/16"
1/8" PLYWOOD-SHIM
9-5/8"
13"
1-5/16"
1"
7-3/8"
FLOAT STRUT JIG DETAIL
NO SCALE
INTERNAL COWL OUTLINE
BEVEL
H
℄ OF ENGINE MOUNT
EXTERNAL COWL OUTLINE (SAME AS FIREWALL)
1/8" PLYWOOD-COWL BACKPLATE (FIBER GLASS COWL VERSION) EPOXY TO COWL-TAPE FLUSH TO FIREWALL-THEN DRILL HOLES FOR NO 6 SOCKET HEAD SHEET METAL SCREWS.
ADJUST INNER OPENING AS REQD. TO ACCEPT ENGINE & MOUNT
BEVEL
H
SECTION H-H
1/8" PLYWOOD-BRACE
BEVEL
S8
1/16" SHEET-VERTICAL GRAIN SHEAR WEBBING
2-1/4" Δ STOCK
3/32" X 1/4" SPRUCE-SPAR (TOP & BOTTOM)
3/8" SHEET-TIP
3/32" SHEET-SHIM (ADD & SHAPE AFTER ASSEMBLY)
F9
1/4" SHEET (2 REQD)
ALLOW FOR WING SEATING TAPE
S7
S6
S5
S4
S3
S2
S2
S3
S4
S5
S6
S7
1/8" PLYWOOD-BRACE
EASY HINGE
1/8" SHEET-STAB. T.E.
3/16" SHEET-ELEV. L.E.
S8
S8
3/16" X 5/8" (TAPERED)
3/16" SHEET
GLUE SECURELY
HINGE SLOTS
1/8" SHEET-(HARD) STABILIZER TRAILING EDGE
3/16" SHEET-(HARD) ELEVATOR LEADING EDGE BEVEL 15° AFTER ASSY.
MODIFIED JOZ ELEVATOR HORN
F10
1/8" LITE PLY-COCKPIT FLOOR
M
E
R
1/4" SQ. HARDWOOD-SERVO MOUNTING RAILS
2-1/8" PLYWOOD
CC
SECTION C-C
130°
4°
140°
.090 ALUMINUM (BEND AS SHOWN ABOVE)
MAIN GEAR LEG-FOR LAND VERSION
RECOMMENDED CONTROL SURFACE TRAVEL LIMITS
AILERONS - 1/2" EACH DIRECTION
ELEVATOR - 3/8" UP & DOWN
RUDDER - 1" LEFT & RIGHT
NOTE: A VACUUM FORMED COWL, CANOPY, & WING TIP LIGHT LENSES ARE AVAILABLE FROM: ED WESTWOOD 909 S. 173rd ST. SPANAWAY, WA. 98387
© RCM ALL COMMERCIAL RIGHTS RESERVED
RV-6F
A SCALE FLOAT EQUIPPED HOMEBUILT DESIGN
DESIGNED BY: ED WESTWOOD
PLANS BY: Bob Wallace
0 1 2 3 4 5 6
SHEET 2 OF 2
PLAN NO. 12332