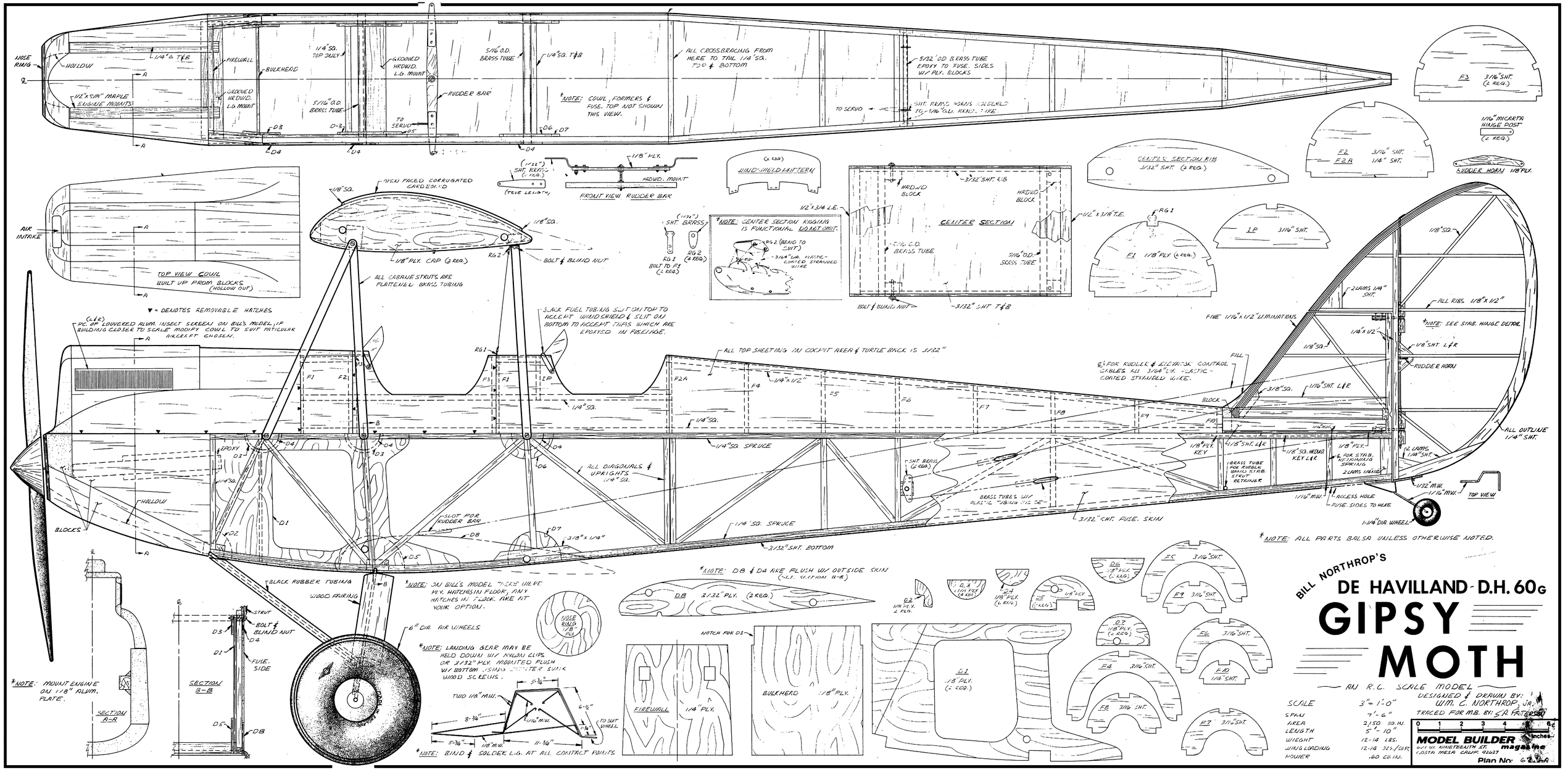
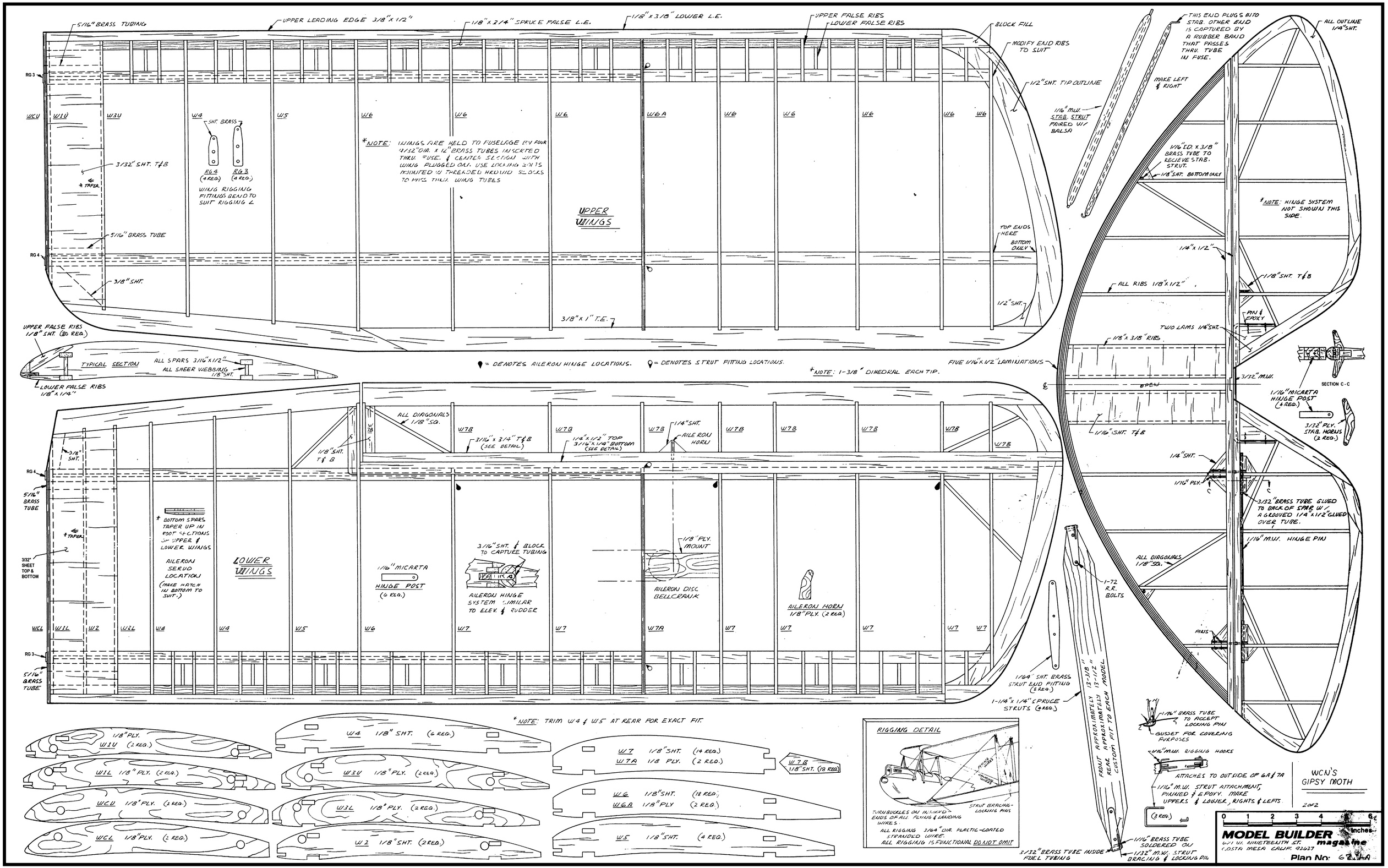

BILL NORTHROP'S
DE HAVILLAND - D.H. 60G
GIPSY
MOTH
AN R.C. SCALE MODEL
DESIGNED & DRAWN BY: WM. C. NORTHROP, JR.
TRACED FOR MB. BY: S.A. PATTERSON
SCALE 3" = 1'-0"
SPAN 7'-6"
AREA 2150 SQ. IN.
LENGTH 5'-10"
WEIGHT 12-14 LBS.
WING LOADING 12-14 OZ./SQ.FT.
POWER .60 CU. IN.
MODEL BUILDER magazine
601 W. WHITEBELTH ST.
COSTA MESA CALIF. 92627
Plan No: 6
*NOTE: ALL PARTS BALSA UNLESS OTHERWISE NOTED.
*NOTE: COWL, FORMERS & FUSE. TOP NOT SHOWN THIS VIEW.
*NOTE: CENTER SECTION RIGGING IS FUNCTIONAL DO NOT OMIT.
*NOTE: DO BILL'S MODEL HAVE WHEEL PLY. HATCHES IN FLOOR, ONLY HATCHES IN FLOOR ARE AT YOUR OPTION.
*NOTE: LANDING GEAR MAY BE HELD DOWN W/ NYLON CLIPS OR 3/32" PLY. MOUNTED FLUSH W/ BOTTOM USING SPLITTER SLIDE WOOD SLEEVES.
*NOTE: BIND & SOLDER L.G. AT ALL CONTACT POINTS
*NOTE: D8 & D4 ARE FLUSH W/ OUTSIDE SKIN (S.L. SECTION B-B)
*NOTE: MOUNT ENGINE ON 1/16" ALUM. PLATE.
▼ = DENOTES REMOVABLE HATCHES
NOSE RING
HOLLOW
1/4" SQ. T&B
FIREWALL
BULKHEAD
1/2" x 5/8" MAPLE ENGINE MOUNTS
GROOVED HRDWD. L.G. MOUNT
5/16" O.D. BRASS TUBE
RUDDER BAR
TO SERVO
ALL CROSSBRACING FROM HERE TO TAIL 1/4" SQ. TOP & BOTTOM
5/32" O.D. BRASS TUBE EPOXY TO FUSE. SIDES W/ PLY. BLOCKS
SHT. BRASS HORNS SOLDERED TO 5/16" O.D. BRASS TUBE
AIR INTAKE
TOP VIEW COWL BUILT UP FROM BLOCKS (HOLLOW OUT)
1/8" SQ.
MEDIUM FACED CORRUGATED CARDBOARD
1/8" PLY. CAP (2 REQ.)
ALL CABANE STRUTS ARE FLATTENED BRASS TUBING
BOLT & BLIND NUT
FRONT VIEW RUDDER BAR
WINDSHIELD PATTERN
CENTER SECTION
HRDWD BLOCK
3/32" SHT. R/B
1/2" x 3/4" L.E.
1/2" x 3/8" T.E.
5/16" O.D. BRASS TUBE
3/32" SHT. T&B
CENTER SECTION RIB 3/32" SHT. (2 REQ.)
F3 3/16" SHT. (2 REQ.)
F2 F2R 3/16" SHT. 1/4" SHT.
1/16" MICARTA HINGE POST (2 REQ.)
RUDDER HORN 1/8" PLY.
F1 1/8" PLY (2 REQ.)
LP 3/16" SHT.
RG1 BOLT TO F1 (1 REQ.)
RG2 (4 REQ.)
RG2 (BEND TO SUIT)
3/64" DIA. PLASTIC-COATED STRANDED WIRE
SLACK FUEL TUBING SLIT ON TOP TO ACCEPT WINDSHIELD & SLIT ON BOTTOM TO ACCEPT TABS WHICH ARE EPOXIED IN FUSELAGE.
ALL TOP SHEETING ON COCKPIT AREA & TURTLE DECK IS 3/32"
1/4" x 1/2"
1/4" SQ.
1/4" SQ. SPRUCE
ALL DIAGONALS & UPRIGHTS 1/4" SQ.
SLOT FOR RUDDER BAR
3/8" x 1/4"
3/32" SHT. BOTTOM
SHT. BRASS (2 REQ.)
BRASS TUBE W/ PLASTIC TUBING FITTED
3/32" SHT. FUSE. SKIN
FINE 1/16" x 1/2" LIGHTNING
FILL
BLOCK
1/8" PLY. KEY
1/8" SHT. L&R
1/8" SQ. HRDWD KEY L&R
1/8" PLY. & FOR STAB. RETAINING SPRING
2 LAMS 1/4" SHT.
ALL RIBS 1/8" x 1/2"
*NOTE: SEE STAB. HINGE DETAIL
1/8" SHT. L&R
RUDDER HORN
ALL OUTLINE 1/4" SHT.
ACCESS HOLE
FUSE. SIDES TO HERE
1-1/4" DIA. WHEEL
TOP VIEW
HOLLOW
BLOCKS
D1
D2
D3
D4
D5
D6
D7
D8
EPOXY
BLACK RUBBER TUBING
WOOD FAIRING
6" DIA. AIR WHEELS
STRUT
BOLT & BLIND NUT
FUSE. SIDE
SECTION B-B
SECTION R-R
NOSE RING 1/8" PLY.
D8 3/32" PLY. (2 REQ.)
D2 1/8" PLY. (2 PLY.)
D3 1/8" PLY. (4 REQ.)
D4 1/8" PLY. (6 REQ.)
D5 1/8" PLY. (2 REQ.)
D6 1/8" PLY. (2 REQ.)
D7 1/8" PLY. (2 REQ.)
F5 3/16" SHT.
F9 3/16" SHT.
F6 3/16" SHT.
F10 1/4" SHT.
F4 3/16" SHT.
F8 3/16" SHT.
F7 3/16" SHT.
G1 1/8" PLY. (2 REQ.)
NOTCH FOR D3
FIREWALL 1/4" PLY.
BULKHEAD 1/8" PLY.
TWO 1/8" M.W.
1/16" M.W.
TO SUIT WHEEL


5/16" BRASS TUBING
UPPER LEADING EDGE 3/8" x 1/2"
1/8" x 2 1/4" SPRUCE FALSE L.E.
1/8" x 3/8" LOWER L.E.
UPPER FALSE RIBS
LOWER FALSE RIBS
BLOCK FILL
MODIFY END RIBS TO SUIT
1/2" SHT. TIP OUTLINE
RG 3
RG 4
WCU
W1U
W3U
W4
W5
W6
W6A
SHT. BRASS
RG 4 (4 REQ.)
RG 3 (4 REQ.)
WING RIGGING FITTINGS BEND TO SUIT RIGGING ∠
3/32" SHT. T&B
* TAPER
5/16" BRASS TUBE
3/8" SHT.
*NOTE: WINGS ARE HELD TO FUSELAGE BY FOUR 11/32" DIA. x 12" BRASS TUBES INSERTED THRU. FUSE. & CENTER SECTION WITH WING PLUGGED ON. USE LOCKING SCREWS MOUNTED IN THREADED HARDWOOD BLOCKS TO HOLD THRU. WING TUBES
UPPER WINGS
TOP ENDS HERE
BOTTOM ONLY
3/8" x 1" T.E.
1/2" SHT.
UPPER FALSE RIBS 1/8" SHT. (80 REQ.)
TYPICAL SECTION
ALL SPARS 3/16" x 1/2"
ALL SHEER WEBBING 1/8" SHT.
LOWER FALSE RIBS 1/8" x 1/4"
= DENOTES AILERON HINGE LOCATIONS.
= DENOTES STRUT FITTING LOCATIONS.
*NOTE: 1-3/8" DIHEDRAL EACH TIP.
ALL DIAGONALS 1/8" SQ.
W7B
3/16" x 3/4" T&B (SEE DETAIL)
1/4" x 1/2" TOP 3/16" x 1/4" BOTTOM (SEE DETAIL)
1/4" SHT.
AILERON HORN
3/8" SHT.
1/8" SHT. T&B
5/16" BRASS TUBE
* BOTTOM SPARS TAPER UP IN ROOT SECTIONS OF UPPER & LOWER WINGS
AILERON SERVO LOCATION (MAKE HATCH IN BOTTOM TO SUIT.)
3/32" SHEET TOP & BOTTOM
LOWER WINGS
1/16" MICARTA HINGE POST (6 REQ.)
3/16" SHT. & BLOCK TO CAPTURE TUBING
AILERON HINGE SYSTEM SIMILAR TO ELEV. & RUDDER
1/8" PLY. MOUNT
AILERON DISC BELLCRANK
AILERON HORN 1/8" PLY. (2 REQ.)
WCL
W1L
W2
W2L
W4
W5
W6
W7
W7A
W7
W7
W7
W7
W7
W7
RG 3
5/16" BRASS TUBE
*NOTE: TRIM W4 & W5 AT REAR FOR EXACT FIT.
1/8" PLY. W1U (2 REQ.)
W4 1/8" SHT. (6 REQ.)
W1L 1/8" PLY. (2 REQ.)
W3U 1/8" PLY. (2 REQ.)
WCU 1/8" PLY. (2 REQ.)
W3L 1/8" PLY. (2 REQ.)
WCL 1/8" PLY. (2 REQ.)
W2 1/8" SHT. (2 REQ.)
W7 1/8" SHT. (14 REQ.)
W7A 1/8 PLY. (2 REQ.)
W7B 1/8" SHT. (18 REQ.)
W6 1/8" SHT. (18 REQ.)
W6A 1/8" PLY (2 REQ.)
W5 1/8" SHT. (4 REQ.)
RIGGING DETAIL
TURNBUCKLES ON INSIDE ENDS OF ALL FLYING & LANDING WIRES.
ALL RIGGING 3/64" DIA. PLASTIC-COATED STRANDED WIRE.
ALL RIGGING IS FUNCTIONAL DO NOT OMIT
STRUT BRACING-LOCKING PINS
THIS END PLUGS INTO STAB. OTHER END IS CAPTURED BY A RUBBER BAND THAT PASSES THRU. TUBE IN FUSE.
ALL OUTLINE 1/4" SHT.
MAKE LEFT & RIGHT
1/16" M.W. STAB. STRUT FAIRED W/ BALSA
1/16" I.D. x 3/8" BRASS TUBE TO RECIEVE STAB. STRUT.
1/8" SHT. BOTTOM ONLY
*NOTE: HINGE SYSTEM NOT SHOWN THIS SIDE.
1/4" x 1/2"
1/8" SHT. T&B
ALL RIBS 1/8" x 1/2"
PIN & EPOXY
TWO LAMS 1/4" SHT.
1/8" x 3/8" RIBS
FIVE 1/16" x 1/2" LAMINATIONS
OPEN
3/32" M.W.
SECTION C-C
1/16" MICARTA HINGE POST (4 REQ.)
3/32" PLY. STAB. HORNS (2 REQ.)
1/16" SHT. T&B
1/4" SHT.
1/16" PLY.
3/32" BRASS TUBE GLUED TO BACK OF SPAR W/ A GROOVED 1/4" x 1/2" GLUED OVER TUBE.
1/16" M.W. HINGE PIN
ALL DIAGONALS 1/8" SQ.
1-72 R.R. BOLTS
PINS
1/64" SHT. BRASS STRUT END FITTING (8 REQ.)
1-1/4" x 1/4" SPRUCE STRUTS (4 REQ.)
FRONT APPROXIMATELY 13-1/8"
REAR APPROXIMATELY 13-1/2"
CUSTOM FIT TO EACH MODEL
1/16" BRASS TUBE TO ACCEPT LOCKING PIN
GUSSET FOR COVERING PURPOSES
1/16" M.W. RIGGING HOOKS
ATTACHES TO OUTSIDE OF 6A & 7A
1/16" M.W. STRUT ATTACHMENT, PINNED & EPOXY. MAKE UPPERS & LOWER, RIGHTS & LEFTS.
(2 REQ.)
1/16" BRASS TUBE SOLDERED ON
1/32" M.W. STRUT BRACING & LOCKING PIN
3/32" BRASS TUBE INSIDE FUEL TUBING
WCN'S GIPSY MOTH
2 of 2
0 1 2 3 4 5 6 inches
MODEL BUILDER magazine
W.I.U. NINETEENTH ST.
COSTA MESA CALIF. 92627
Plan No: 6