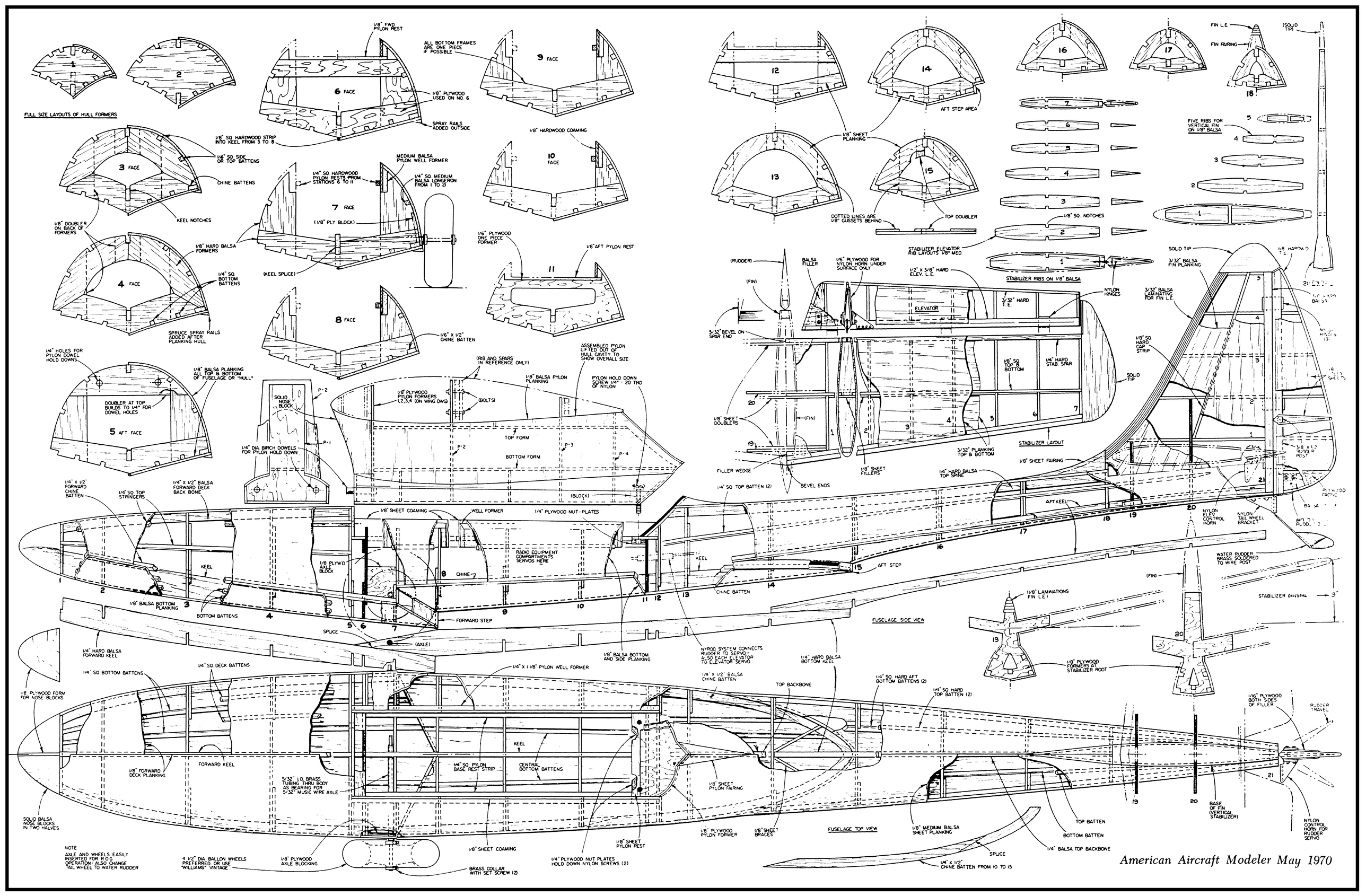
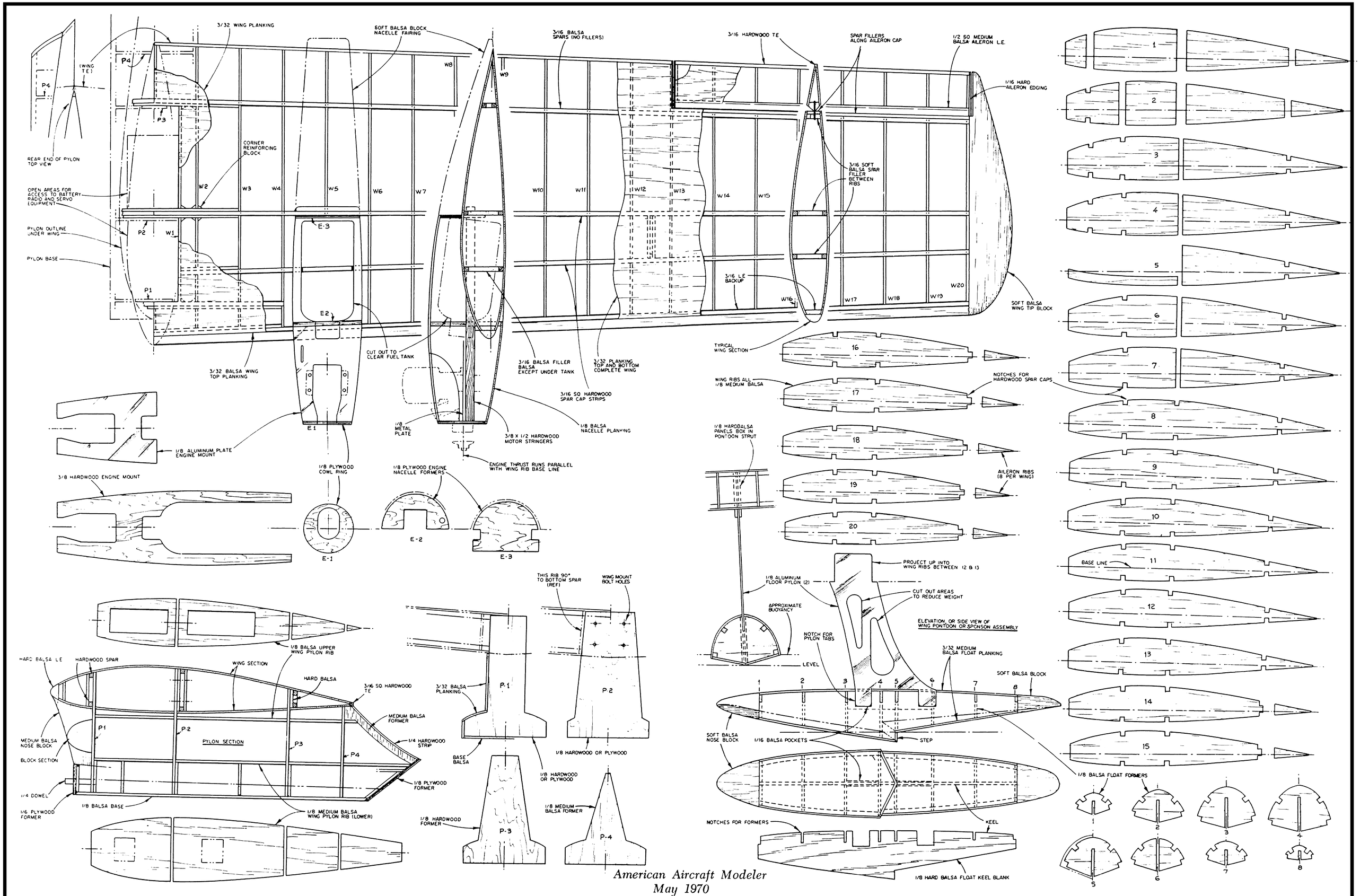

FULL SIZE LAYOUTS OF HULL FORMERS
1/8" FWD PYLON REST
ALL BOTTOM FRAMES ARE ONE PIECE IF POSSIBLE
1/8" PLYWOOD USED ON NO. 6
SPRAY RAILS ADDED OUTSIDE
1/8" SQ. HARDWOOD STRIP INTO KEEL FROM 3 TO 8
1/4" SQ. SIDE OR TOP BATTENS
CHINE BATTENS
KEEL NOTCHES
1/8" DOUBLER ON BACK OF FORMERS
1/8" HARD BALSA FORMERS
1/4" SQ. BOTTOM BATTENS
SPRUCE SPRAY RAILS ADDED AFTER PLANKING HULL
1/8" HARDWOOD COAMING
MEDIUM BALSA PYLON WELL FORMER
1/4" SQ. HARDWOOD PYLON RESTS FROM STATIONS 6 TO 11
1/4" SQ. MEDIUM BALSA LONGERON FROM 1 TO 21
(1/8" PLY BLOCK)
(KEEL SPLICE)
1/16" PLYWOOD ONE PIECE FORMER
1/8" AFT PYLON REST
1/8" X 1/2" CHINE BATTEN
1/4" HOLES FOR PYLON DOWEL HOLD DOWNS
1/8" BALSA PLANKING ALL TOP & BOTTOM OF FUSELAGE OR "HULL"
DOUBLER AT TOP BUILDS TO 1/4" FOR DOWEL HOLES
(RIB AND SPARS IN REFERENCE ONLY)
1/8" BALSA PYLON PLANKING
ASSEMBLED PYLON LIFTED OUT OF HULL CAVITY TO SHOW OVERALL SIZE
PYLON HOLD DOWN SCREW 1/4" - 20 THD OF NYLON
SOLID NOSE BLOCK
1/8" PLYWOOD PYLON FORMERS 1,2,3,4 (ON WING DWG)
(BOLTS)
TOP FORM
BOTTOM FORM
1/4" DIA. BIRCH DOWELS FOR PYLON HOLD DOWN
(BLOCK)
1/4" X 1/2" FORWARD CHINE BATTEN
1/4" SQ. TOP STRINGERS
1/4" X 1/2" BALSA FORWARD DECK BACK BONE
1/8" SHEET COAMING
WELL FORMER
1/4" PLYWOOD NUT-PLATES
RADIO EQUIPMENT COMPARTMENTS SERVOS HERE
1/8 PLYWD AXLE BLOCK
KEEL
CHINE
1/8" BALSA BOTTOM PLANKING
BOTTOM BATTENS
FORWARD STEP
SPLICE
(AXLE)
1/4" HARD BALSA FORWARD KEEL
1/8" BALSA BOTTOM AND SIDE PLANKING
NYROD SYSTEM CONNECTS RUDDER TO SERVO - ALSO EACH ELEVATOR TO ELEVATOR SERVO
1/4" HARD BALSA BOTTOM KEEL
CHINE BATTEN
AFT STEP
FUSELAGE SIDE VIEW
1/8" SHEET PLANKING
AFT STEP AREA
DOTTED LINES ARE 1/8" GUSSETS BEHIND
TOP DOUBLER
STABILIZER ELEVATOR RIB LAYOUTS 1/8" MED.
1/8" SQ. NOTCHES
STABILIZER RIBS ON 1/8" BALSA
FIN L.E.
(SOLID TIP)
FIN FAIRING
FIVE RIBS FOR VERTICAL FIN ON 1/8" BALSA
(RUDDER)
(FIN)
BALSA FILLER
1/16" PLYWOOD FOR NYLON HORN UNDER SURFACE ONLY
1/2" X 3/8" HARD ELEV. L.E.
ELEVATOR
3/32" HARD T.E.
NYLON HINGES
3/32" BEVEL ON SPAR END
1/8" SHEET DOUBLERS
1/8" SQ. TOP TO BOTTOM
1/4" HARD STAB SPAR
SOLID TIP
3/32" PLANKING TOP & BOTTOM
STABILIZER LAYOUT
FILLER WEDGE
BEVEL ENDS
1/8" SHEET FILLERS
1/8" SHEET FAIRING
1/4" HARD BALSA TOP SPINE
1/4" SQ. TOP BATTEN (2)
AFT KEEL
NYLON ELEV. CONTROL HORN
NYLON TAIL WHEEL BRACKET
WATER RUDDER BRASS SOLDERED TO WIRE POST
STABILIZER DIHEDRAL
3/32" BALSA FIN PLANKING
3/32" BALSA LAMINATING FOR FIN L.E.
1/8" SQ. HARD CAP STRIP
1/8" LAMINATIONS FIN L.E.
1/8" PLYWOOD FORMERS AT STABILIZER ROOT
1/8" PLYWOOD FORM FOR NOSE BLOCKS
1/4" SQ. BOTTOM BATTENS
1/4" SQ. DECK BATTENS
1/4" X 1 1/8" PYLON WELL FORMER
1/4" X 1/2" BALSA CHINE BATTEN
TOP BACKBONE
1/4" SQ. HARD AFT BOTTOM BATTENS (2)
1/4" SQ. HARD TOP BATTEN (2)
1/16" PLYWOOD BOTH SIDES OF FILLER
RUDDER TRAVEL
1/8" FORWARD DECK PLANKING
FORWARD KEEL
5/32" I.D. BRASS TUBING THRU BODY AS BEARING FOR 5/32" MUSIC WIRE AXLE
1/4" SQ. PYLON BASE REST STRIP
CENTRAL BOTTOM BATTENS
1/8" SHEET PYLON FAIRING
BASE OF FIN (VERTICAL STABILIZER)
NYLON CONTROL HORN FOR RUDDER SERVO
SOLID BALSA NOSE BLOCKS IN TWO HALVES
1/8" PLYWOOD PYLON FORMER
1/8" SHEET BRACES
FUSELAGE TOP VIEW
1/8" MEDIUM BALSA SHEET PLANKING
TOP BATTEN
BOTTOM BATTEN
1/4" BALSA TOP BACKBONE
SPLICE
1/4" X 1/2" CHINE BATTEN FROM 10 TO 15
1/8" SHEET COAMING
1/4" PLYWOOD NUT PLATES HOLD DOWN NYLON SCREWS (2)
1/8" SHEET PYLON REST
BRASS COLLAR WITH SET SCREW (2)
1/8" PLYWOOD AXLE BLOCKING
4 1/2" DIA. BALLON WHEELS PREFERRED, OR USE "WILLIAMS" VINTAGE
NOTE
AXLE AND WHEELS EASILY INSERTED FOR R.O.G. OPERATION - ALSO CHANGE TAIL WHEEL TO WATER RUDDER


3/32 WING PLANKING
SOFT BALSA BLOCK NACELLE FAIRING
3/16 BALSA SPARS (NO FILLERS)
3/16 HARDWOOD TE
SPAR FILLERS ALONG AILERON CAP
1/2 SQ MEDIUM BALSA AILERON L.E.
1/16 HARD AILERON EDGING
(WING TE)
REAR END OF PYLON TOP VIEW
CORNER REINFORCING BLOCK
OPEN AREAS FOR ACCESS TO BATTERY RADIO AND SERVO EQUIPMENT
PYLON OUTLINE UNDER WING
PYLON BASE
3/16 SOFT BALSA SPAR FILLER BETWEEN RIBS
3/16 LE BACKUP
SOFT BALSA WING TIP BLOCK
CUT OUT TO CLEAR FUEL TANK
3/32 BALSA WING TOP PLANKING
3/16 BALSA FILLER BALSA EXCEPT UNDER TANK
3/32 PLANKING TOP AND BOTTOM COMPLETE WING
3/16 SQ HARDWOOD SPAR CAP STRIPS
TYPICAL WING SECTION
WING RIBS ALL 1/8 MEDIUM BALSA
NOTCHES FOR HARDWOOD SPAR CAPS
1/8 METAL PLATE
3/8 X 1/2 HARDWOOD MOTOR STRINGERS
1/8 BALSA NACELLE PLANKING
1/8 ALUMINUM PLATE ENGINE MOUNT
ENGINE THRUST RUNS PARALLEL WITH WING RIB BASE LINE
1/8 HARDBALSA PANELS BOX IN PONTOON STRUT
AILERON RIBS (8 PER WING)
3/8 HARDWOOD ENGINE MOUNT
1/8 PLYWOOD COWL RING
1/8 PLYWOOD ENGINE NACELLE FORMERS
E-1
E-2
E-3
BASE LINE
PROJECT UP INTO WING RIBS BETWEEN 12 & 13
1/8 ALUMINUM FLOOR PYLON (2)
CUT OUT AREAS TO REDUCE WEIGHT
APPROXIMATE BUOYANCY
ELEVATION, OR SIDE VIEW OF WING PONTOON OR SPONSON ASSEMBLY
NOTCH FOR PYLON TABS
LEVEL
3/32 MEDIUM BALSA FLOAT PLANKING
SOFT BALSA BLOCK
SOFT BALSA NOSE BLOCK
1/16 BALSA POCKETS
STEP
1/8 BALSA FLOAT FORMERS
NOTCHES FOR FORMERS
KEEL
1/8 HARD BALSA FLOAT KEEL BLANK
THIS RIB 90° TO BOTTOM SPAR (REF)
WING MOUNT BOLT HOLES
1/8 BALSA UPPER WING PYLON RIB
HARD BALSA LE
HARDWOOD SPAR
WING SECTION
HARD BALSA
3/16 SQ HARDWOOD TE
MEDIUM BALSA FORMER
1/4 HARDWOOD STRIP
MEDIUM BALSA NOSE BLOCK
PYLON SECTION
BLOCK SECTION
1/8 PLYWOOD FORMER
1/4 DOWEL
1/8 BALSA BASE
1/8 MEDIUM BALSA WING PYLON RIB (LOWER)
3/32 BALSA PLANKING
BASE BALSA
1/8 HARDWOOD OR PLYWOOD
1/8 HARDWOOD FORMER
1/8 MEDIUM BALSA FORMER
P-1
P-2
P-3
P-4