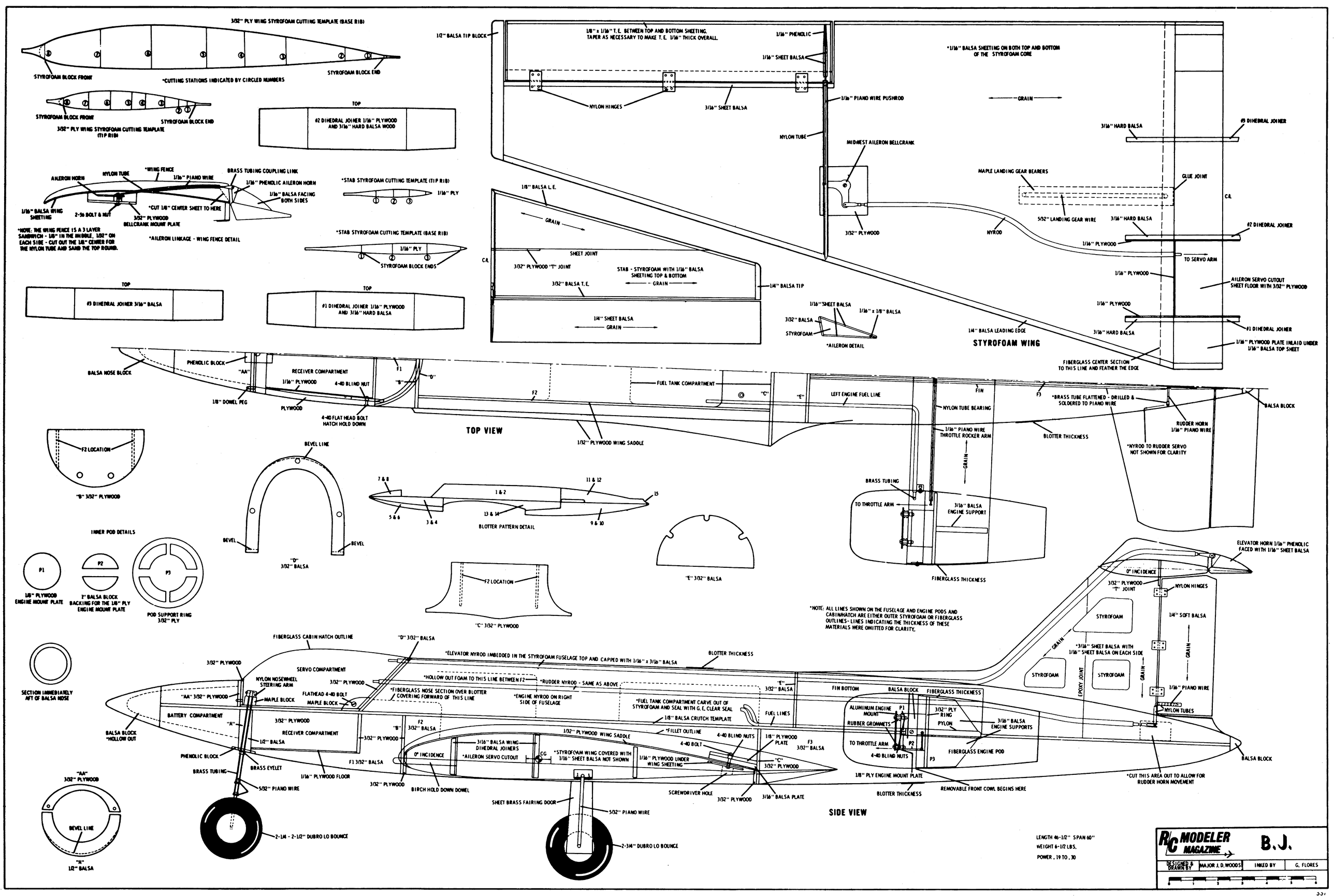
3/32" PLY WING STYROFOAM CUTTING TEMPLATE (BASE RIB)
STYROFOAM BLOCK FRONT
*CUTTING STATIONS INDICATED BY CIRCLED NUMBERS
STYROFOAM BLOCK END
3/32" PLY WING STYROFOAM CUTTING TEMPLATE (TIP RIB)
TOP
#2 DIHEDRAL JOINER 1/16" PLYWOOD AND 3/16" HARD BALSA WOOD
AILERON HORN
NYLON TUBE
*WING FENCE
1/16" PIANO WIRE
BRASS TUBING COUPLING LINK
1/16" PHENOLIC AILERON HORN
1/16" BALSA FACING BOTH SIDES
1/16" BALSA WING SHEETING
2-56 BOLT & NUT
3/32" PLYWOOD BELLCRANK MOUNT PLATE
*CUT 1/8" CENTER SHEET TO HERE
*NOTE: THE WING FENCE IS A 3 LAYER SANDWICH - 1/8" IN THE MIDDLE, 1/32" ON EACH SIDE - CUT OUT THE 1/8" CENTER FOR THE NYLON TUBE AND SAND THE TOP ROUND.
*AILERON LINKAGE - WING FENCE DETAIL
*STAB STYROFOAM CUTTING TEMPLATE (TIP RIB)
1/16" PLY
*STAB STYROFOAM CUTTING TEMPLATE (BASE RIB)
STYROFOAM BLOCK ENDS
#3 DIHEDRAL JOINER 3/16" BALSA
#1 DIHEDRAL JOINER 1/16" PLYWOOD AND 3/16" HARD BALSA
1/2" BALSA TIP BLOCK
1/8" x 1/16" T.E. BETWEEN TOP AND BOTTOM SHEETING. TAPER AS NECESSARY TO MAKE T.E. 1/16" THICK OVERALL.
1/16" PHENOLIC
1/16" SHEET BALSA
NYLON HINGES
3/16" SHEET BALSA
1/16" PIANO WIRE PUSHROD
NYLON TUBE
MIDWEST AILERON BELLCRANK
3/32" PLYWOOD
*1/16" BALSA SHEETING ON BOTH TOP AND BOTTOM OF THE STYROFOAM CORE
GRAIN
3/16" HARD BALSA
#3 DIHEDRAL JOINER
MAPLE LANDING GEAR BEARERS
GLUE JOINT
C/L
5/32" LANDING GEAR WIRE
3/16" HARD BALSA
NYROD
#2 DIHEDRAL JOINER
1/16" PLYWOOD
TO SERVO ARM
1/8" BALSA L.E.
SHEET JOINT
3/32" PLYWOOD "T" JOINT
STAB - STYROFOAM WITH 1/16" BALSA SHEETING TOP & BOTTOM
3/32" BALSA T.E.
1/4" BALSA TIP
1/4" SHEET BALSA
1/16" SHEET BALSA
3/32" BALSA
STYROFOAM
1/16" x 1/8" BALSA
*AILERON DETAIL
AILERON SERVO CUTOUT SHEET FLOOR WITH 3/32" PLYWOOD
1/16" PLYWOOD
1/4" BALSA LEADING EDGE
3/16" HARD BALSA
#1 DIHEDRAL JOINER
1/16" PLYWOOD PLATE INLAID UNDER 1/16" BALSA TOP SHEET
FIBERGLASS CENTER SECTION TO THIS LINE AND FEATHER THE EDGE
STYROFOAM WING
BALSA NOSE BLOCK
PHENOLIC BLOCK
"AA"
RECEIVER COMPARTMENT
1/16" PLYWOOD
4-40 BLIND NUT
F1
"B"
"D"
1/8" DOWEL PEG
PLYWOOD
4-40 FLAT HEAD BOLT HATCH HOLD DOWN
F2
FUEL TANK COMPARTMENT
"C"
"E"
LEFT ENGINE FUEL LINE
1/32" PLYWOOD WING SADDLE
TOP VIEW
FIN
F3
*BRASS TUBE FLATTENED - DRILLED & SOLDERED TO PIANO WIRE
BALSA BLOCK
NYLON TUBE BEARING
1/16" PIANO WIRE THROTTLE ROCKER ARM
BLOTTER THICKNESS
RUDDER HORN 1/16" PIANO WIRE
*NYROD TO RUDDER SERVO NOT SHOWN FOR CLARITY
BRASS TUBING
TO THROTTLE ARM
3/16" BALSA ENGINE SUPPORT
FIBERGLASS THICKNESS
F2 LOCATION
"B" 3/32" PLYWOOD
BEVEL LINE
BEVEL
"D" 3/32" BALSA
7 & 8
1 & 2
11 & 12
15
5 & 6
3 & 4
13 & 14
9 & 10
BLOTTER PATTERN DETAIL
"E" 3/32" BALSA
INNER POD DETAILS
P1
P2
P3
1/8" PLYWOOD ENGINE MOUNT PLATE
1" BALSA BLOCK BACKING FOR THE 1/8" PLY ENGINE MOUNT PLATE
POD SUPPORT RING 3/32" PLY
"C" 3/32" PLYWOOD
*NOTE: ALL LINES SHOWN ON THE FUSELAGE AND ENGINE PODS AND CABINHATCH ARE EITHER OUTER STYROFOAM OR FIBERGLASS OUTLINES - LINES INDICATING THE THICKNESS OF THESE MATERIALS WERE OMITTED FOR CLARITY.
ELEVATOR HORN 1/16" PHENOLIC FACED WITH 1/16" SHEET BALSA
0° INCIDENCE
3/32" PLYWOOD "T" JOINT
NYLON HINGES
STYROFOAM
1/4" SOFT BALSA
SECTION IMMEDIATELY AFT OF BALSA NOSE
FIBERGLASS CABIN HATCH OUTLINE
"D" 3/32" BALSA
*ELEVATOR NYROD IMBEDDED IN THE STYROFOAM FUSELAGE TOP AND CAPPED WITH 1/16" x 3/16" BALSA
BLOTTER THICKNESS
*3/16" SHEET BALSA WITH 1/16" SHEET BALSA ON EACH SIDE
3/32" PLYWOOD
SERVO COMPARTMENT
NYLON NOSEWHEEL STEERING ARM
3/32" PLYWOOD
*HOLLOW OUT FOAM TO THIS LINE BETWEEN F2
*RUDDER NYROD - SAME AS ABOVE
"E" 3/32" BALSA
FIN BOTTOM
BALSA BLOCK
FIBERGLASS THICKNESS
EPOXY JOINT
1/16" PIANO WIRE
NYLON TUBES
"AA" 3/32" PLYWOOD
MAPLE BLOCK
FLATHEAD 4-40 BOLT
MAPLE BLOCK
*FIBERGLASS NOSE SECTION OVER BLOTTER COVERING FORWARD OF THIS LINE
*ENGINE NYROD ON RIGHT SIDE OF FUSELAGE
*FUEL TANK COMPARTMENT CARVE OUT OF STYROFOAM AND SEAL WITH G.E. CLEAR SEAL
FUEL LINES
ALUMINUM ENGINE MOUNT
P1
3/32" PLY RING
RUBBER GROMMETS
PYLON
3/16" BALSA ENGINE SUPPORTS
BATTERY COMPARTMENT
"A"
3/32" PLYWOOD
RECEIVER COMPARTMENT
1/2" BALSA
3/32" PLYWOOD
"B"
F2 3/32" BALSA
1/8" BALSA CRUTCH TEMPLATE
*FILLET OUTLINE
1/32" PLYWOOD WING SADDLE
4-40 BLIND NUTS
1/8" PLYWOOD PLATE
F3 3/32" BALSA
4-40 BOLT
TO THROTTLE ARM
P2
4-40 BLIND NUTS
P3
FIBERGLASS ENGINE POD
BALSA BLOCK *HOLLOW OUT
PHENOLIC BLOCK
BRASS TUBING
BRASS EYELET
F1 3/32" BALSA
1/16" PLYWOOD FLOOR
0° INCIDENCE
3/16" BALSA WING DIHEDRAL JOINERS
*AILERON SERVO CUTOUT
CG
*STYROFOAM WING COVERED WITH 1/16" SHEET BALSA NOT SHOWN
1/16" PLYWOOD UNDER WING SHEETING
"C" 3/32" PLYWOOD
3/32" PLYWOOD
BIRCH HOLD DOWN DOWEL
SCREWDRIVER HOLE
3/32" PLYWOOD
3/16" BALSA PLATE
1/8" PLY ENGINE MOUNT PLATE
BLOTTER THICKNESS
REMOVABLE FRONT COWL BEGINS HERE
*CUT THIS AREA OUT TO ALLOW FOR RUDDER HORN MOVEMENT
BALSA BLOCK
5/32" PIANO WIRE
SHEET BRASS FAIRING DOOR
5/32" PIANO WIRE
2-1/4 - 2-1/2" DUBRO LO BOUNCE
2-3/4" DUBRO LO BOUNCE
"AA" 3/32" PLYWOOD
BEVEL LINE
"A" 1/2" BALSA
SIDE VIEW
LENGTH 46-1/2" SPAN 60"
WEIGHT 6-1/2 LBS.
POWER .19 TO .30
R/C MODELER MAGAZINE
B.J.
DESIGNED & DRAWN BY
MAJOR J.D. WOODS
INKED BY
G. FLORES