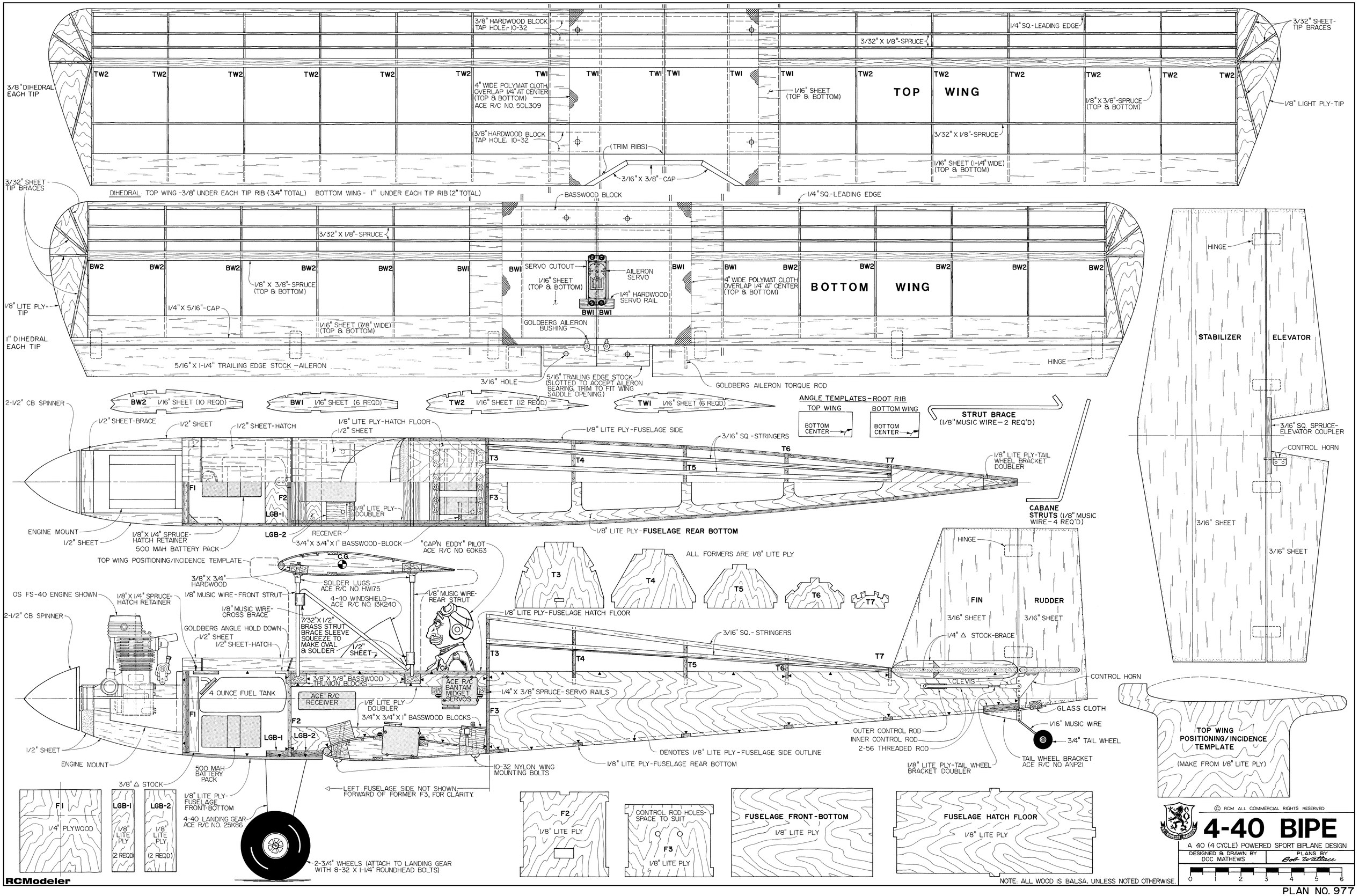
TOP WING
BOTTOM WING
3/8" HARDWOOD BLOCK TAP HOLE, 10-32
1/4" SQ.-LEADING EDGE
3/32" X 1/8"-SPRUCE
3/32" SHEET-TIP BRACES
3/8" DIHEDRAL EACH TIP
4" WIDE POLYMAT CLOTH OVERLAP 1/4" AT CENTER (TOP & BOTTOM) ACE R/C NO. 50L309
1/16" SHEET (TOP & BOTTOM)
1/8" X 3/8"-SPRUCE (TOP & BOTTOM)
1/8" LIGHT PLY-TIP
(TRIM RIBS)
3/16" X 3/8"-CAP
1/16" SHEET (1-1/4" WIDE) (TOP & BOTTOM)
DIHEDRAL: TOP WING -3/8" UNDER EACH TIP RIB (3/4" TOTAL) BOTTOM WING - 1" UNDER EACH TIP RIB (2" TOTAL)
BASSWOOD BLOCK
SERVO CUTOUT
AILERON SERVO
1/4" HARDWOOD SERVO RAIL
1/8" X 3/8"-SPRUCE (TOP & BOTTOM)
1/4" X 5/16"-CAP
1/8" LITE PLY-TIP
1" DIHEDRAL EACH TIP
1/16" SHEET (7/8" WIDE) (TOP & BOTTOM)
GOLDBERG AILERON BUSHING
5/16" X 1-1/4" TRAILING EDGE STOCK -AILERON
3/16" HOLE
5/16" TRAILING EDGE STOCK (SLOTTED TO ACCEPT AILERON BEARING, TRIM TO FIT WING SADDLE OPENING)
GOLDBERG AILERON TORQUE ROD
HINGE
STABILIZER
ELEVATOR
3/16" SQ. SPRUCE-ELEVATOR COUPLER
CONTROL HORN
3/16" SHEET
BW2 1/16" SHEET (10 REQD)
BW1 1/16" SHEET (6 REQD)
TW2 1/16" SHEET (12 REQD)
TW1 1/16" SHEET (6 REQD)
ANGLE TEMPLATES-ROOT RIB
BOTTOM CENTER
STRUT BRACE (1/8" MUSIC WIRE-2 REQ'D)
2-1/2" CB SPINNER
1/2" SHEET-BRACE
1/2" SHEET
1/2" SHEET-HATCH
1/8" LITE PLY-HATCH FLOOR
1/8" LITE PLY-FUSELAGE SIDE
3/16" SQ.-STRINGERS
1/8" LITE PLY-TAIL WHEEL BRACKET DOUBLER
1/8" LITE PLY-DOUBLER
ENGINE MOUNT
1/8" X 1/4" SPRUCE-HATCH RETAINER
500 MAH BATTERY PACK
RECEIVER
3/4" X 3/4" X 1" BASSWOOD-BLOCK
"CAP'N EDDY" PILOT ACE R/C NO 60K63
1/8" LITE PLY-FUSELAGE REAR BOTTOM
CABANE STRUTS (1/8" MUSIC WIRE-4 REQ'D)
TOP WING POSITIONING/INCIDENCE TEMPLATE
C.G.
3/8" X 3/4" HARDWOOD
SOLDER LUGS ACE R/C NO HW175
4-40 WINDSHIELD ACE R/C NO 13K240
1/8" MUSIC WIRE-FRONT STRUT
1/8" MUSIC WIRE-REAR STRUT
1/8" MUSIC WIRE-CROSS BRACE
OS FS-40 ENGINE SHOWN
GOLDBERG ANGLE HOLD DOWN
7/32" X 1/2" BRASS STRUT BRACE SLEEVE SQUEEZE TO MAKE OVAL & SOLDER
ALL FORMERS ARE 1/8" LITE PLY
1/8" LITE PLY-FUSELAGE HATCH FLOOR
FIN
RUDDER
3/16" SHEET
1/4" Δ STOCK-BRACE
3/8" X 5/8" BASSWOOD TRUNION BLOCKS
4 OUNCE FUEL TANK
ACE R/C RECEIVER
ACE R/C BANTAM MIDGET SERVOS
1/4" X 3/8" SPRUCE-SERVO RAILS
3/4" X 3/4" X 1" BASSWOOD BLOCKS
CLEVIS
GLASS CLOTH
1/16" MUSIC WIRE
3/4" TAIL WHEEL
OUTER CONTROL ROD
INNER CONTROL ROD
2-56 THREADED ROD
TAIL WHEEL BRACKET ACE R/C NO ANP21
DENOTES 1/8" LITE PLY-FUSELAGE SIDE OUTLINE
10-32 NYLON WING MOUNTING BOLTS
3/8" Δ STOCK
1/8" LITE PLY-FUSELAGE FRONT-BOTTOM
4-40 LANDING GEAR ACE R/C NO. 25K86
LEFT FUSELAGE SIDE NOT SHOWN, FORWARD OF FORMER F3, FOR CLARITY
2-3/4" WHEELS (ATTACH TO LANDING GEAR WITH 8-32 X 1-1/4" ROUNDHEAD BOLTS)
F1 1/4" PLYWOOD
LGB-1 1/8" LITE PLY (2 REQD)
LGB-2 1/8" LITE PLY (2 REQD)
F2 1/8" LITE PLY
CONTROL ROD HOLES-SPACE TO SUIT
F3 1/8" LITE PLY
FUSELAGE FRONT-BOTTOM 1/8" LITE PLY
FUSELAGE HATCH FLOOR 1/8" LITE PLY
TOP WING POSITIONING/INCIDENCE TEMPLATE
(MAKE FROM 1/8" LITE PLY)
RCModeler
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4-40 BIPE
A 40 (4 CYCLE) POWERED SPORT BIPLANE DESIGN
DESIGNED & DRAWN BY DOC MATHEWS
PLANS BY Bob Wallace
NOTE. ALL WOOD IS BALSA. UNLESS NOTED OTHERWISE.
PLAN NO. 977