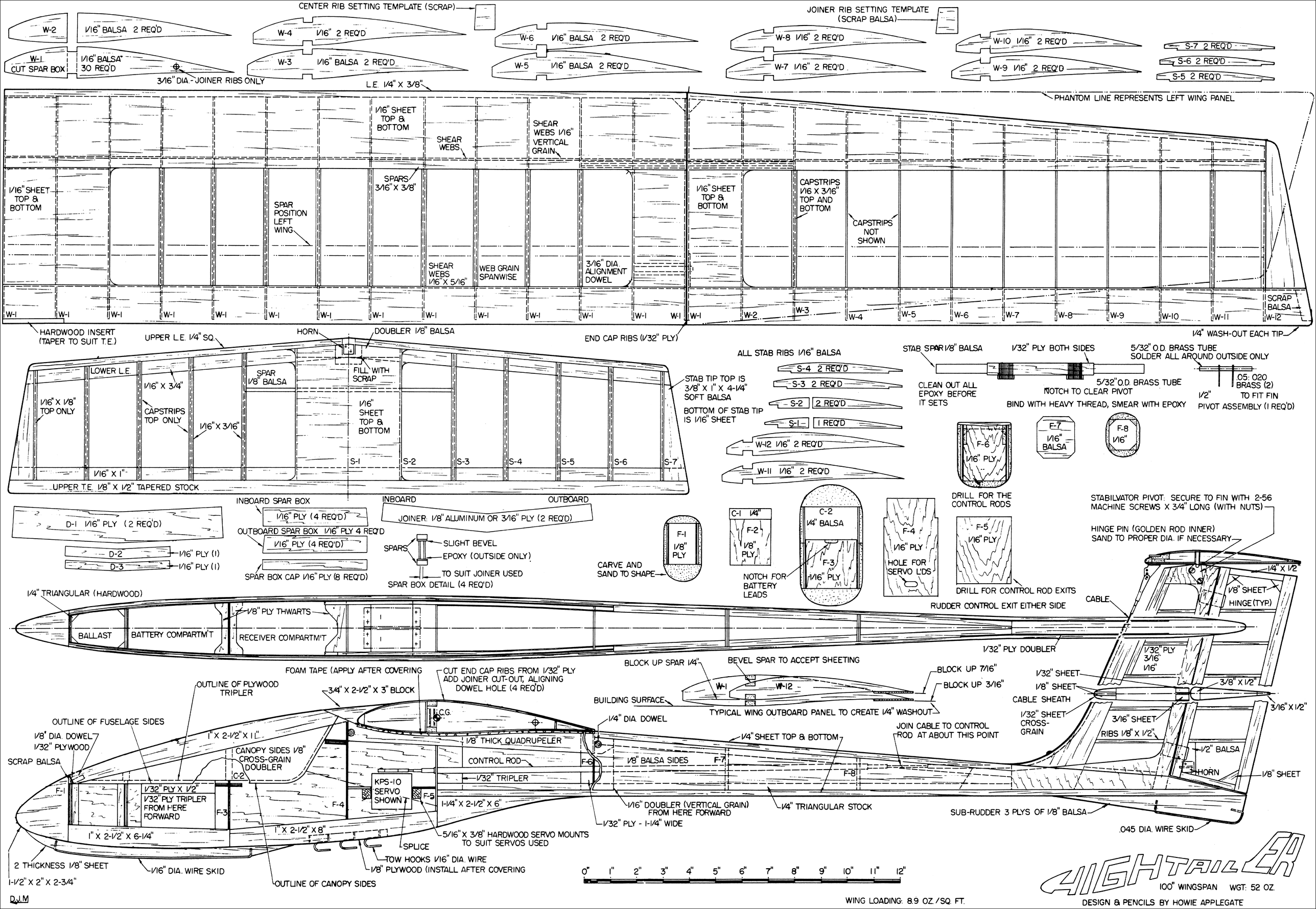
CENTER RIB SETTING TEMPLATE (SCRAP)
JOINER RIB SETTING TEMPLATE (SCRAP BALSA)
W-2
1/16" BALSA 2 REQ'D
W-1 CUT SPAR BOX
1/16" BALSA 30 REQ'D
3/16" DIA.-JOINER RIBS ONLY
W-4 1/16" 2 REQ'D
W-3 1/16" BALSA 2 REQ'D
W-6 1/16" BALSA 2 REQ'D
W-5 1/16" BALSA 2 REQ'D
W-8 1/16" 2 REQ'D
W-7 1/16" 2 REQ'D
W-10 1/16" 2 REQ'D
W-9 1/16" 2 REQ'D
S-7 2 REQ'D
S-6 2 REQ'D
S-5 2 REQ'D
L.E. 1/4" X 3/8"
PHANTOM LINE REPRESENTS LEFT WING PANEL
1/16" SHEET TOP & BOTTOM
SHEAR WEBS
SHEAR WEBS 1/16" VERTICAL GRAIN
SPARS 3/16" X 3/8"
SPAR POSITION LEFT WING
SHEAR WEBS 1/16" X 5/16"
WEB GRAIN SPANWISE
3/16" DIA ALIGNMENT DOWEL
CAPSTRIPS 1/16 X 3/16" TOP AND BOTTOM
CAPSTRIPS NOT SHOWN
SCRAP BALSA
W-1 W-2 W-3 W-4 W-5 W-6 W-7 W-8 W-9 W-10 W-11 W-12
HARDWOOD INSERT (TAPER TO SUIT T.E.)
END CAP RIBS (1/32" PLY)
1/4" WASH-OUT EACH TIP
UPPER L.E. 1/4" SQ.
HORN
DOUBLER 1/8" BALSA
LOWER L.E.
1/16" X 1/8" TOP ONLY
1/16" X 3/4"
CAPSTRIPS TOP ONLY
1/16" X 3/16"
SPAR 1/8" BALSA
FILL WITH SCRAP
1/16" SHEET TOP & BOTTOM
1/16" X 1"
S-1 S-2 S-3 S-4 S-5 S-6 S-7
UPPER T.E. 1/8" X 1/2" TAPERED STOCK
STAB TIP TOP IS 3/8" X 1" X 4-1/4" SOFT BALSA
BOTTOM OF STAB TIP IS 1/16" SHEET
ALL STAB RIBS 1/16" BALSA
S-4 2 REQ'D
S-3 2 REQ'D
S-2 2 REQ'D
S-1 1 REQ'D
W-12 1/16" 2 REQ'D
W-11 1/16" 2 REQ'D
STAB SPAR 1/8" BALSA
1/32" PLY BOTH SIDES
CLEAN OUT ALL EPOXY BEFORE IT SETS
5/32" O.D. BRASS TUBE
NOTCH TO CLEAR PIVOT
BIND WITH HEAVY THREAD, SMEAR WITH EPOXY
5/32" O.D. BRASS TUBE SOLDER ALL AROUND OUTSIDE ONLY
.05: .020 BRASS (2)
1/2"
TO FIT FIN
PIVOT ASSEMBLY (1 REQ'D)
F-6 1/16" PLY
DRILL FOR THE CONTROL RODS
F-7 1/16" BALSA
F-8 1/16"
D-1 1/16" PLY (2 REQ'D)
D-2 1/16" PLY (1)
D-3 1/16" PLY (1)
INBOARD SPAR BOX
1/16" PLY (4 REQ'D)
OUTBOARD SPAR BOX 1/16" PLY 4 REQ'D
1/16" PLY (4 REQ'D)
SPAR BOX CAP 1/16" PLY (8 REQ'D)
INBOARD
OUTBOARD
JOINER: 1/8" ALUMINUM OR 3/16" PLY (2 REQ'D)
SPARS
SLIGHT BEVEL
EPOXY (OUTSIDE ONLY)
TO SUIT JOINER USED
SPAR BOX DETAIL (4 REQ'D)
F-1 1/8" PLY
CARVE AND SAND TO SHAPE
C-1 1/4"
F-2 1/8" PLY
NOTCH FOR BATTERY LEADS
C-2 1/4" BALSA
F-3 1/16" PLY
F-4 1/16" PLY
HOLE FOR SERVO L'DS
F-5 1/16" PLY
DRILL FOR CONTROL ROD EXITS
RUDDER CONTROL EXIT EITHER SIDE
STABILVATOR PIVOT: SECURE TO FIN WITH 2-56 MACHINE SCREWS X 3/4" LONG (WITH NUTS)
HINGE PIN (GOLDEN ROD INNER) SAND TO PROPER DIA. IF NECESSARY
1/4" X 1/2"
1/8" SHEET
HINGE (TYP)
CABLE
1/4" TRIANGULAR (HARDWOOD)
1/8" PLY THWARTS
BALLAST
BATTERY COMPARTM'T
RECEIVER COMPARTM'T
1/32" PLY DOUBLER
1/32" PLY 3/16" 1/16"
1/32" SHEET
1/8" SHEET
CABLE SHEATH
1/32" SHEET CROSS-GRAIN
3/8" X 1/2"
3/16" X 1/2"
3/16" SHEET
RIBS 1/8" X 1/2"
1/2" BALSA
HORN
1/8" SHEET
FOAM TAPE (APPLY AFTER COVERING
CUT END CAP RIBS FROM 1/32" PLY ADD JOINER CUT-OUT, ALIGNING DOWEL HOLE (4 REQ'D)
OUTLINE OF PLYWOOD TRIPLER
3/4" X 2-1/2" X 3" BLOCK
C.G.
BLOCK UP SPAR 1/4"
BEVEL SPAR TO ACCEPT SHEETING
W-1 W-12
BLOCK UP 7/16"
BLOCK UP 3/16"
BUILDING SURFACE
TYPICAL WING OUTBOARD PANEL TO CREATE 1/4" WASHOUT
OUTLINE OF FUSELAGE SIDES
1/8" DIA. DOWEL
1/32" PLYWOOD
SCRAP BALSA
1" X 2-1/2" X 11"
CANOPY SIDES 1/8" CROSS-GRAIN DOUBLER
1/4" DIA. DOWEL
1/8" THICK QUADRUPELER
CONTROL ROD
1/32" TRIPLER
1/8" BALSA SIDES
1/4" SHEET TOP & BOTTOM
JOIN CABLE TO CONTROL ROD AT ABOUT THIS POINT
F-1 F-2 F-3 F-4 F-5 F-6 F-7 F-8
C-2
1/32" PLY X 1/2"
1/32" PLY TRIPLER FROM HERE FORWARD
KPS-10 SERVO SHOWN
1-1/4" X 2-1/2" X 6"
1/16" DOUBLER (VERTICAL GRAIN) FROM HERE FORWARD
1/32" PLY - 1-1/4" WIDE
1/4" TRIANGULAR STOCK
SUB-RUDDER 3 PLYS OF 1/8" BALSA
.045 DIA. WIRE SKID
1" X 2-1/2" X 6-1/4"
1" X 2-1/2" X 8"
5/16" X 3/8" HARDWOOD SERVO MOUNTS TO SUIT SERVOS USED
SPLICE
TOW HOOKS 1/16" DIA. WIRE
1/8" PLYWOOD (INSTALL AFTER COVERING
2 THICKNESS 1/8" SHEET
1/16" DIA. WIRE SKID
1-1/2" X 2" X 2-3/4"
OUTLINE OF CANOPY SIDES
0" 1" 2" 3" 4" 5" 6" 7" 8" 9" 10" 11" 12"
D.J.M
HIGHTAIL ER
100" WINGSPAN WGT: 52 OZ.
WING LOADING: 8.9 OZ/SQ. FT.
DESIGN & PENCILS BY HOWIE APPLEGATE