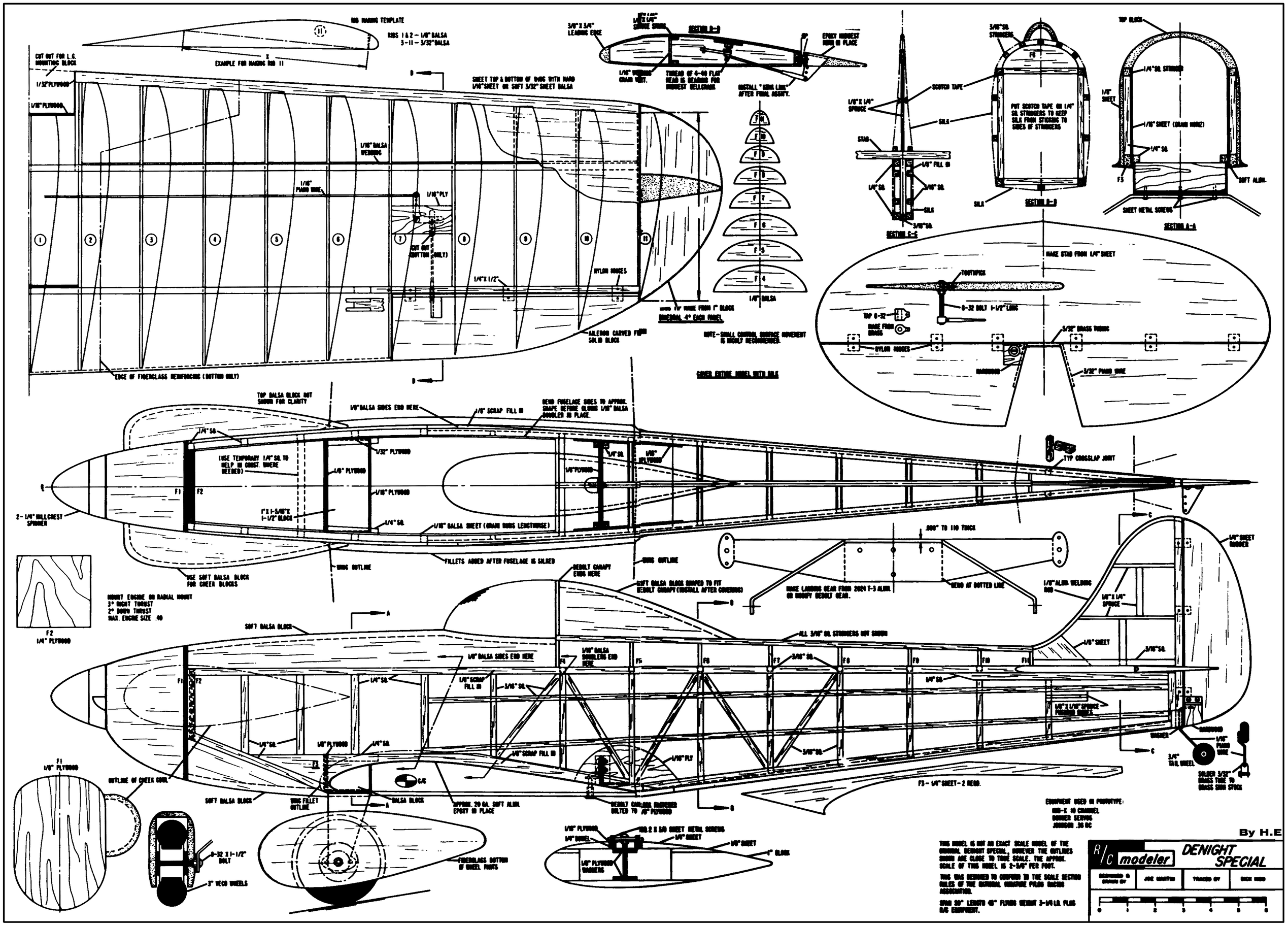
RIB MAKING TEMPLATE
RIBS 1 & 2 – 1/8" BALSA
3-11 – 3/32" BALSA
EXAMPLE FOR MAKING RIB 11
CUT OUT FOR L.E. MOUNTING BLOCK
1/32" PLYWOOD
1/16" PLYWOOD
SHEET TOP & BOTTOM OF WING WITH HARD 1/16" SHEET OR SOFT 3/32" SHEET BALSA
1/16" BALSA WEDGING
1/16" PIANO WIRE
1/16" PLY
CUT OUT (BOTTOM ONLY)
1/4" X 1/2"
NYLON HINGES
AILERON CARVED FROM SOLID BLOCK
EDGE OF FIBERGLASS REINFORCING (BOTTOM ONLY)
3/8" X 3/4" LEADING EDGE
1/16" X 1/4" SPRUCE SPARS
SECTION E-E
1/16" WEDGING GRAIN VERT.
THREAD OF 6-40 FLAT HEAD IS BEARING FOR NYLHINGE BELLCRANK
EPOXY NYLHINGE HINGE IN PLACE
INSTALL "HINGE LINE" AFTER FINAL ASSMY.
1/8" BALSA
SHAVING TIP WAVE FROM 1" BLOCK
NOTE – SMALL CONTROL SURFACE MOVEMENT IS HIGHLY RECOMMENDED.
COVER ENTIRE MODEL WITH SILK
SCOTCH TAPE
1/8" X 1/4" SPRUCE
SILK
STAB
1/8" FILL IN
1/8" SQ.
3/8" SQ.
SECTION C-C
3/8" SQ. STRINGERS
PUT SCOTCH TAPE ON 1/4" SQ. STRINGERS TO KEEP SILK FROM STICKING TO SIDES OF STRINGERS
SECTION D-D
TOP BLOCK
1/4" SQ. STRINGER
1/8" SHEET
1/8" SHEET (GRAIN HORIZ)
1/4" SQ.
SOFT ALUM.
SHEET METAL SCREWS
SECTION A-A
MAKE STAB FROM 1/4" SHEET
TOOTHPICK
6-32 BOLT 1-1/2" LONG
TAP 6-32
MAKE FROM BRASS
5/32" BRASS TUBING
NYLON HINGES
HARDWOOD
3/32" PIANO WIRE
TOP BALSA BLOCK NOT SHOWN FOR CLARITY
1/8" BALSA SIDES END HERE
1/8" SCRAP FILL IN
BEND FUSELAGE SIDES TO APPROX. SHAPE BEFORE GLUING 1/8" BALSA DOUBLER IN PLACE.
1/4" SQ.
(USE TEMPORARY 1/4" SQ. TO HELP IN CONST. WHERE NEEDED)
1/32" PLYWOOD
1/8" PLYWOOD
1/16" PLYWOOD
1" X 1-5/8" X 1-1/2" BLOCK
1/4" SQ.
1/16" BALSA SHEET (GRAIN RUNS LENGTHWISE)
2-1/4" HILLCREST SPINNER
F1
F2
TYP CROSSLAP JOINT
.000" TO 110 THICK
WING OUTLINE
FILLETS ADDED AFTER FUSELAGE IS SANDED
USE SOFT BALSA BLOCK FOR CHEEK BLOCKS
REDULT CANOPY ENDS HERE
SOFT BALSA BLOCK SHAPED TO FIT REDULT CANOPY (INSTALL AFTER COVERING)
MAKE LANDING GEAR FROM 2024 T-3 ALUM. OR HOOPY REDULT GEAR.
BEND AT DOTTED LINE
1/8" ALUM. WELDING ROD
1/4" X 1/4" SPRUCE
1/4" SHEET HOODER
MOUNT ENGINE ON RADIAL MOUNT
3° RIGHT THRUST
2° DOWN THRUST
MAX. ENGINE SIZE .40
F2
1/4" PLYWOOD
SOFT BALSA BLOCK
ALL 3/8" SQ. STRINGERS NOT SHOWN
1/8" SHEET
3/8" SQ.
1/8" BALSA SIDES END HERE
1/8" BALSA DOUBLERS END HERE
F4
F5
F6
F7
F8
F9
F10
F11
1/8" SCRAP FILL IN
3/8" SQ.
1/4" SQ.
1/8" X 1/8" SPRUCE PLYWOOD SHEET
1/4" SQ.
1/8" PLYWOOD
1/4" SQ.
1/8" SCRAP FILL IN
1/16" PLY
3/8" SQ.
F1
1/8" PLYWOOD
OUTLINE OF CHEEK COVE
C.G.
SOFT BALSA BLOCK
WING FILLET OUTLINE
BALSA BLOCK
APPROX. 20 GA. SOFT ALUM. EPOXY IN PLACE
REDULT CARLOCK FASTENER BOLTED TO 1/8" PLYWOOD
F3 – 1/4" SHEET – 2 REQD.
WASHER
HARDWOOD
1/16" PIANO WIRE
3/4" TAIL WHEEL
SOLDER 3/32" BRASS TUBE TO BRASS SHIM STOCK
6-32 X 1-1/2" BOLT
3" VECO WHEELS
FIBERGLASS BOTTOM OF WHEEL PANTS
1/16" PLYWOOD
1/4" DOWEL
NO. 2 X 3/8 SHEET METAL SCREWS
1/4" SHEET
1/8" SHEET
1" BLOCK
1/8" PLYWOOD DOUBLERS
EQUIPMENT USED IN PROTOTYPE:
KRS-X 10 CHANNEL
DENNER SERVOS
JOHNSON .30 BC
By H.E
THIS MODEL IS NOT AN EXACT SCALE MODEL OF THE ORIGINAL DENIGHT SPECIAL, HOWEVER THE OUTLINES SHOWN ARE CLOSE TO TRUE SCALE. THE APPROX. SCALE OF THIS MODEL IS 2-3/8" PER FOOT.
THIS WAS DESIGNED TO CONFORM TO THE SCALE SECTION RULES OF THE NATIONAL MINIATURE PYLON RACING ASSOCIATION.
SPAN 30" LENGTH 48" FLYING WEIGHT 3-1/4 LB. PLUS R/C EQUIPMENT.
R/C modeler
DENIGHT SPECIAL
DESIGNED & DRAWN BY
JOE MARTIN
TRACED BY
DICK HEID
0 1 2 3 4 5 6