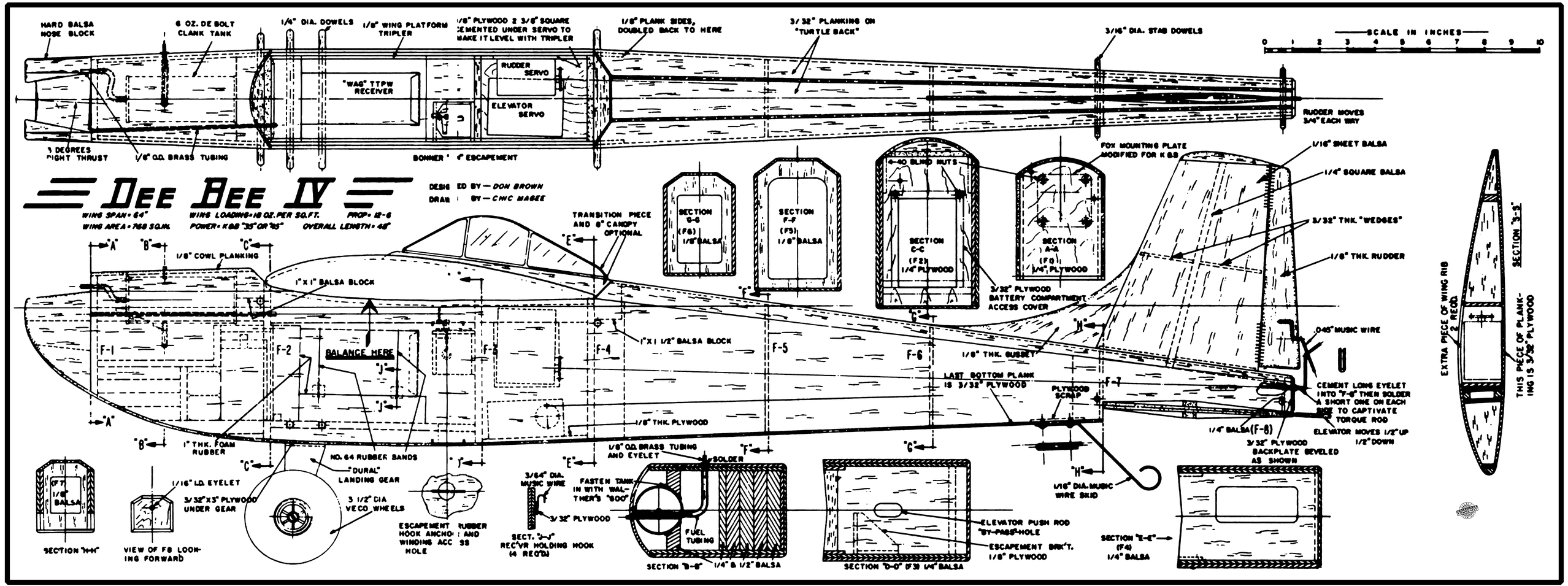
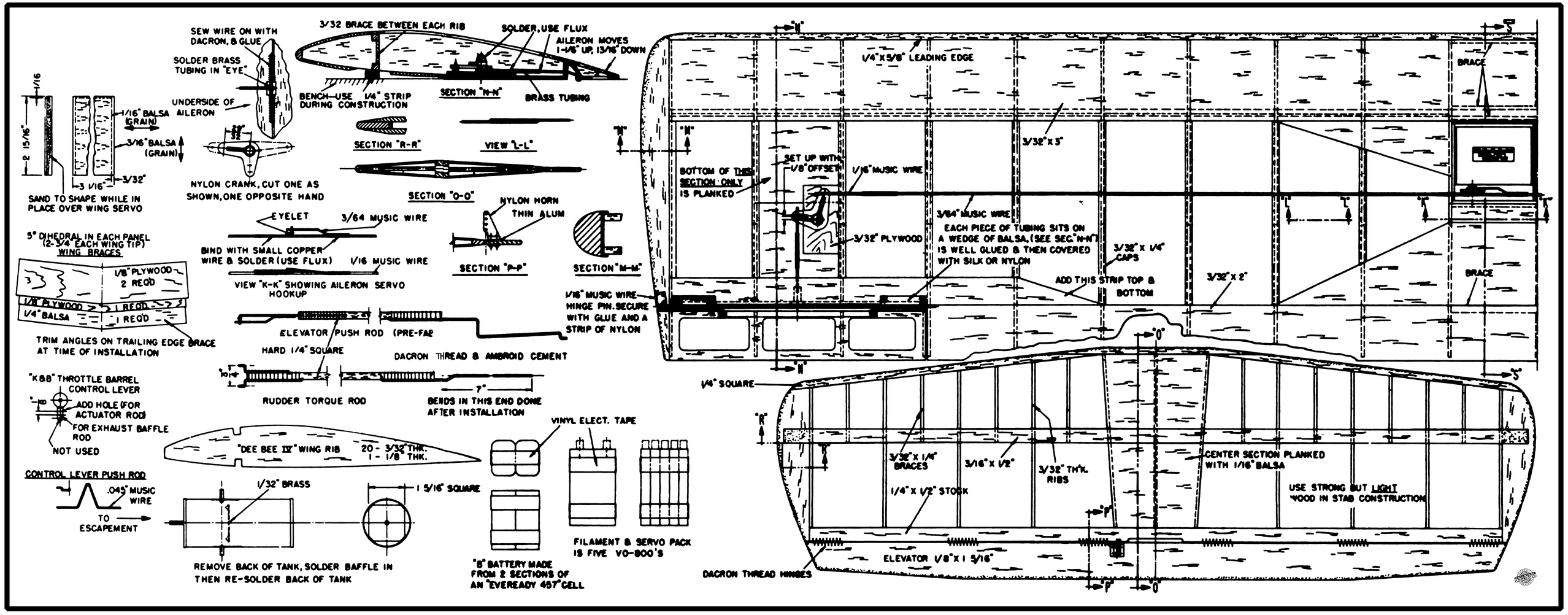

DEE BEE IV
DESIGNED BY — DON BROWN
DRAWN BY — CHIC MAGEE
WING SPAN = 64"
WING AREA = 768 SQ.IN.
WING LOADING = 18 OZ. PER SQ.FT.
POWER = K&B "35" OR "45"
PROP = 12-6
OVERALL LENGTH = 48"
SCALE IN INCHES
0 1 2 3 4 5 6 7 8 9 10
HARD BALSA NOSE BLOCK
6 OZ. DE BOLT CLANK TANK
1/4" DIA. DOWELS
1/8" WING PLATFORM TRIPLER
1/8" PLYWOOD 2 3/8" SQUARE CEMENTED UNDER SERVO TO MAKE IT LEVEL WITH TRIPLER
1/8" PLANK SIDES, DOUBLED BACK TO HERE
3/32" PLANKING ON "TURTLE BACK"
3/16" DIA. STAB DOWELS
RUDDER SERVO
"WAG" TTPW RECEIVER
ELEVATOR SERVO
RUDDER MOVES 3/4" EACH WAY
3 DEGREES RIGHT THRUST
1/8" O.D. BRASS TUBING
BONNER 4" ESCAPEMENT
FOX MOUNTING PLATE MODIFIED FOR K&B
1/16" SHEET BALSA
1/4" SQUARE BALSA
3/32" THK. "WEDGES"
1/8" THK. RUDDER
4-40 BLIND NUTS
SECTION B-B (F6) 1/8" BALSA
SECTION F-F (F5) 1/8" BALSA
SECTION C-C (F2) 1/4" PLYWOOD
SECTION A-A (F1) 1/4" PLYWOOD
3/32" PLYWOOD BATTERY COMPARTMENT ACCESS COVER
TRANSITION PIECE AND 8" CANOPY OPTIONAL
1/8" COWL PLANKING
1" X 1" BALSA BLOCK
1" X 1 1/2" BALSA BLOCK
BALANCE HERE
F-1
F-2
F-3
F-4
F-5
F-6
F-7
1/8" THK. GUSSET
LAST BOTTOM PLANK IS 3/32" PLYWOOD
PLYWOOD SCRAP
1/8" THK. PLYWOOD
.045" MUSIC WIRE
CEMENT LONG EYELET INTO "F-6" THEN SOLDER A SHORT ONE ON EACH SIDE TO CAPTIVATE TORQUE ROD
ELEVATOR MOVES 1/2" UP 1/2" DOWN
1/4" BALSA (F-8)
3/32" PLYWOOD BACKPLATE BEVELED AS SHOWN
1/16" DIA. MUSIC WIRE SKID
EXTRA PIECE OF WING RIB 2 REQD.
SECTION "3-3"
THIS PIECE OF PLANKING IS 3/32" PLYWOOD
1" THK. FOAM RUBBER
NO. 64 RUBBER BANDS
"DURAL" LANDING GEAR
3 1/2" DIA VECO WHEELS
1/16" I.D. EYELET
3/32" X 3" PLYWOOD UNDER GEAR
SECTION "H-H"
VIEW OF F8 LOOKING FORWARD
ESCAPEMENT RUBBER HOOK ANCHOR AND WINDING ACCESS HOLE
3/64" DIA. MUSIC WIRE
3/32" PLYWOOD
SECT. "J-J" REC'VR HOLDING HOOK (4 REQ'D)
1/8" O.D. BRASS TUBING AND EYELET
SOLDER
FASTEN TANK IN WITH WALTHER'S "600"
FUEL TUBING
SECTION "B-B" 1/4 & 1/2" BALSA
ELEVATOR PUSH ROD "BY-PASS" HOLE
ESCAPEMENT BRK'T. 1/8" PLYWOOD
SECTION "D-D" (F3) 1/4" BALSA
SECTION "E-E" (F4) 1/4" BALSA


1/16
2 15/16"
1/16" BALSA (GRAIN)
3/16" BALSA (GRAIN)
3/32"
3 1/16"
SAND TO SHAPE WHILE IN PLACE OVER WING SERVO
SEW WIRE ON WITH DACRON, & GLUE
SOLDER BRASS TUBING IN "EYE"
UNDERSIDE OF AILERON
NYLON CRANK, CUT ONE AS SHOWN, ONE OPPOSITE HAND
3/32 BRACE BETWEEN EACH RIB
SOLDER, USE FLUX
AILERON MOVES 1-1/8" UP, 13/16" DOWN
BENCH—USE 1/4" STRIP DURING CONSTRUCTION
SECTION "N-N"
BRASS TUBING
SECTION "R-R"
VIEW "L-L"
SECTION "O-O"
5° DIHEDRAL IN EACH PANEL (2-3/4" EACH WING TIP)
WING BRACES
1/8" PLYWOOD 2 REQ'D
1/8" PLYWOOD 1 REQ'D
1/4" BALSA 1 REQ'D
TRIM ANGLES ON TRAILING EDGE BRACE AT TIME OF INSTALLATION
EYELET
3/64 MUSIC WIRE
BIND WITH SMALL COPPER WIRE & SOLDER (USE FLUX)
1/16 MUSIC WIRE
VIEW "K-K" SHOWING AILERON SERVO HOOKUP
HYLON HORN
THIN ALUM
SECTION "P-P"
SECTION "M-M"
ELEVATOR PUSH ROD (PRE-FAB
HARD 1/4" SQUARE
DACRON THREAD & AMBROID CEMENT
RUDDER TORQUE ROD
7"
BENDS IN THIS END DONE AFTER INSTALLATION
"K&B" THROTTLE BARREL CONTROL LEVER
ADD HOLE (FOR ACTUATOR ROD)
FOR EXHAUST BAFFLE ROD
NOT USED
CONTROL LEVER PUSH ROD
.045" MUSIC WIRE
TO ESCAPEMENT
"DEE BEE IV" WING RIB
20 - 3/32" THK.
1 - 1/8 THK.
1/32" BRASS
1 5/16" SQUARE
REMOVE BACK OF TANK, SOLDER BAFFLE IN THEN RE-SOLDER BACK OF TANK
VINYL ELECT. TAPE
"B" BATTERY MADE FROM 2 SECTIONS OF AN "EVEREADY 457" CELL
FILAMENT & SERVO PACK IS FIVE VO-800'S
1/4" X 5/8" LEADING EDGE
BRACE
3/32" X 3"
BOTTOM OF THIS SECTION ONLY IS PLANKED
SET UP WITH 1/8" OFFSET
1/16" MUSIC WIRE
3/64" MUSIC WIRE
3/32" PLYWOOD
EACH PIECE OF TUBING SITS ON A WEDGE OF BALSA, (SEE SEC. "N-N") IS WELL GLUED & THEN COVERED WITH SILK OR NYLON
3/32" X 1/4" CAPS
ADD THIS STRIP TOP & BOTTOM
3/32" X 2"
BRACE
1/16" MUSIC WIRE HINGE PIN. SECURE WITH GLUE AND A STRIP OF NYLON
1/4" SQUARE
3/32" X 1/4" BRACES
3/16" X 1/2"
3/32" THK. RIBS
CENTER SECTION PLANKED WITH 1/16" BALSA
1/4" X 1/2" STOCK
USE STRONG BUT LIGHT WOOD IN STAB CONSTRUCTION
ELEVATOR 1/8" X 1 5/16"
DACRON THREAD HINGES