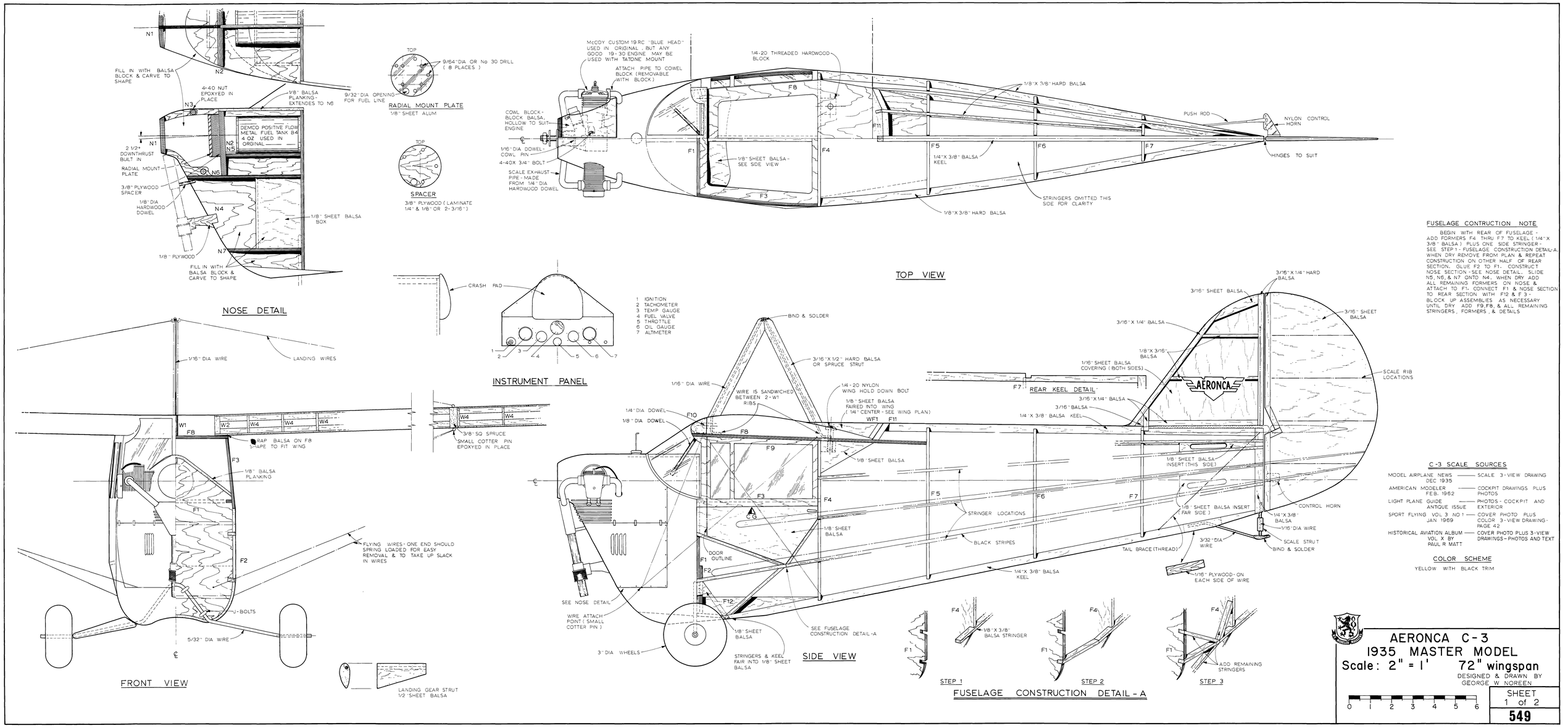
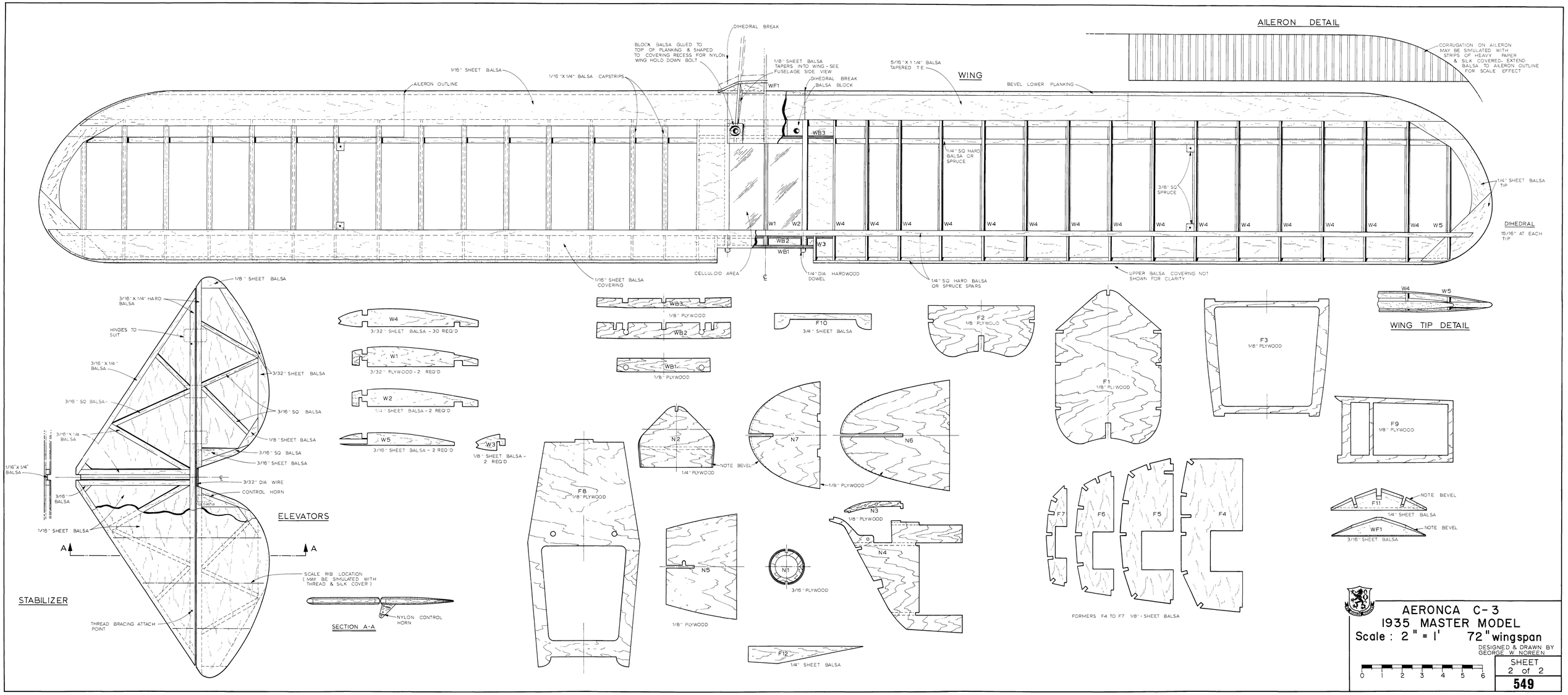

NOSE DETAIL
N1
N2
N3
N4
N5
N6
N7
FILL IN WITH BALSA BLOCK & CARVE TO SHAPE
4-40 NUT EPOXYED IN PLACE
1/8" BALSA PLANKING - EXTENDS TO N6
DEMCO POSITIVE FLOW METAL FUEL TANK B4 4 OZ USED IN ORGINAL
2 1/2° DOWNTHRUST BUILT IN
RADIAL MOUNT PLATE
3/8" PLYWOOD SPACER
1/8" DIA HARDWOOD DOWEL
1/8" SHEET BALSA BOX
1/8" PLYWOOD
FILL IN WITH BALSA BLOCK & CARVE TO SHAPE
TOP
9/64" DIA OR No 30 DRILL (8 PLACES)
9/32" DIA OPENING FOR FUEL LINE
RADIAL MOUNT PLATE
1/8" SHEET ALUM
TOP
SPACER
3/8" PLYWOOD (LAMINATE 1/4" & 1/8" OR 2-3/16")
McCOY CUSTOM 19 RC "BLUE HEAD" USED IN ORIGINAL, BUT ANY GOOD 19-30 ENGINE MAY BE USED WITH TATONE MOUNT
ATTACH PIPE TO COWEL BLOCK (REMOVABLE WITH BLOCK)
1/4-20 THREADED HARDWOOD BLOCK
COWL BLOCK - BLOCK BALSA, HOLLOW TO SUIT ENGINE
1/16" DIA DOWEL - COWL PIN
4-40X 3/4" BOLT
SCALE EXHAUST PIPE - MADE FROM 1/4" DIA HARDWOOD DOWEL
F1
F3
F4
F5
F6
F7
F8
F11
1/8" SHEET BALSA - SEE SIDE VIEW
1/8"X 3/8" HARD BALSA
1/4"X 3/8" BALSA KEEL
1/8"X 3/8" HARD BALSA
STRINGERS OMITTED THIS SIDE FOR CLARITY
PUSH ROD
NYLON CONTROL HORN
HINGES TO SUIT
TOP VIEW
CRASH PAD
1 IGNITION
2 TACHOMETER
3 TEMP GAUGE
4 FUEL VALVE
5 THROTTLE
6 OIL GAUGE
7 ALTIMETER
INSTRUMENT PANEL
1/16" DIA WIRE
LANDING WIRES
W1
W2
W4
F8
WRAP BALSA ON F8 SHAPE TO FIT WING
3/8" SQ SPRUCE
SMALL COTTER PIN EPOXYED IN PLACE
F3
1/8" BALSA PLANKING
F1
F2
FLYING WIRES - ONE END SHOULD SPRING LOADED FOR EASY REMOVAL & TO TAKE UP SLACK IN WIRES
J-BOLTS
5/32" DIA WIRE
FRONT VIEW
LANDING GEAR STRUT 1/2" SHEET BALSA
BND & SOLDER
3/16"X 1/2" HARD BALSA OR SPRUCE STRUT
1/16" DIA WIRE
WIRE IS SANDWICHED BETWEEN 2-W1 RIBS
1/4-20 NYLON WING HOLD DOWN BOLT
1/8" SHEET BALSA FAIRED INTO WING (1/4" CENTER - SEE WING PLAN)
1/4" DIA DOWEL
1/8" DIA DOWEL
F10
F8
F9
WF1
F11
1/8" SHEET BALSA
F3
F4
1/8" SHEET BALSA
DOOR OUTLINE
F1
F2
F12
SEE NOSE DETAIL
WIRE ATTACH POINT (SMALL COTTER PIN)
3" DIA WHEELS
1/8" SHEET BALSA
STRINGERS & KEEL FAIR INTO 1/8" SHEET BALSA
SEE FUSELAGE CONSTRUCTION DETAIL-A
SIDE VIEW
F7
REAR KEEL DETAIL
3/16"X 1/4" BALSA
3/16" BALSA
1/4"X 3/8" BALSA KEEL
3/16" SHEET BALSA
3/16"X 1/4" HARD BALSA
3/16" SHEET BALSA
3/16"X 1/4" BALSA
1/8"X 3/16" BALSA
1/16" SHEET BALSA COVERING (BOTH SIDES)
AERONCA
SCALE RIB LOCATIONS
1/8" SHEET BALSA INSERT (THIS SIDE)
1/8" SHEET BALSA INSERT (FAR SIDE)
CONTROL HORN
1/4"X 3/8" BALSA
1/16" DIA WIRE
SCALE STRUT
BND & SOLDER
3/32" DIA WIRE
TAIL BRACE (THREAD)
1/16" PLYWOOD - ON EACH SIDE OF WIRE
STRINGER LOCATIONS
BLACK STRIPES
1/4"X 3/8" BALSA KEEL
F5
F6
F7
F4
1/8"X 3/8" BALSA STRINGER
ADD REMAINING STRINGERS
STEP 1
STEP 2
STEP 3
FUSELAGE CONSTRUCTION DETAIL - A
FUSELAGE CONTRUCTION NOTE
BEGIN WITH REAR OF FUSELAGE - ADD FORMERS F4 THRU F7 TO KEEL (1/4" X 3/8" BALSA) PLUS ONE SIDE STRINGER - SEE STEP 1 - FUSELAGE CONSTRUCTION DETAIL-A. WHEN DRY REMOVE FROM PLAN & REPEAT CONSTRUCTION ON OTHER HALF OF REAR SECTION. GLUE F2 TO F1. CONSTRUCT NOSE SECTION - SEE NOSE DETAIL. SLIDE N5, N6, & N7 ONTO N4. WHEN DRY ADD ALL REMAINING FORMERS ON NOSE & ATTACH TO F1. CONNECT F1 & NOSE SECTION TO REAR SECTION WITH F12 & F3 - BLOCK UP ASSEMBLIES AS NECESSARY UNTIL DRY ADD F9, F8, & ALL REMAINING STRINGERS, FORMERS, & DETAILS
C-3 SCALE SOURCES
MODEL AIRPLANE NEWS DEC 1935 — SCALE 3-VIEW DRAWING
AMERICAN MODELER FEB. 1962 — COCKPIT DRAWINGS PLUS PHOTOS
LIGHT PLANE GUIDE ANTIQUE ISSUE — PHOTOS - COCKPIT AND EXTERIOR
SPORT FLYING VOL 3 NO 1 JAN 1969 — COVER PHOTO PLUS COLOR 3-VIEW DRAWING - PAGE 42
HISTORICAL AVIATION ALBUM VOL X BY PAUL R MATT — COVER PHOTO PLUS 3-VIEW DRAWINGS - PHOTOS AND TEXT
COLOR SCHEME
YELLOW WITH BLACK TRIM
AERONCA C-3
1935 MASTER MODEL
Scale: 2" = 1'
72" wingspan
DESIGNED & DRAWN BY GEORGE W NOREEN
0 1 2 3 4 5 6
SHEET 1 of 2
549


AILERON DETAIL
CORRUGATION ON AILERON MAY BE SIMULATED WITH STRIPS OF HEAVY PAPER & SILK COVERED. EXTEND BALSA TO AILERON OUTLINE FOR SCALE EFFECT
DIHEDRAL BREAK
BLOCK BALSA GLUED TO TOP OF PLANKING & SHAPED TO COVERING RECESS FOR NYLON WING HOLD DOWN BOLT
1/8" SHEET BALSA TAPERS INTO WING - SEE FUSELAGE SIDE VIEW
5/16" X 1 1/4" BALSA TAPERED T.E.
WING
1/16" SHEET BALSA
1/16" X 1/4" BALSA CAPSTRIPS
AILERON OUTLINE
WF1
DIHEDRAL BREAK BALSA BLOCK
BEVEL LOWER PLANKING
WB3
1/4" SQ HARD BALSA OR SPRUCE
3/8" SQ SPRUCE
1/4" SHEET BALSA TIP
DIHEDRAL
15/16" AT EACH TIP
W1
W2
W4
W5
WB2
WB1
W3
1/16" SHEET BALSA COVERING
CELLULOID AREA
1/4" DIA HARDWOOD DOWEL
1/4" SQ HARD BALSA OR SPRUCE SPARS
UPPER BALSA COVERING NOT SHOWN FOR CLARITY
1/8" SHEET BALSA
3/16" X 1/4" HARD BALSA
HINGES TO SUIT
3/16" X 1/4" BALSA
3/32" SHEET BALSA
3/16" SQ BALSA
3/16" SQ BALSA
3/16" X 1/4 BALSA
1/8" SHEET BALSA
3/16" SQ BALSA
3/16" SHEET BALSA
1/16" X 1/4" BALSA
3/32" DIA WIRE
CONTROL HORN
3/16" BALSA
1/16" SHEET BALSA
ELEVATORS
A
A
SCALE RIB LOCATION (MAY BE SIMULATED WITH THREAD & SILK COVER)
STABILIZER
THREAD BRACING ATTACH POINT
NYLON CONTROL HORN
SECTION A-A
W4
3/32" SHEET BALSA - 30 REQ'D
W1
3/32" PLYWOOD - 2 REQ'D
W2
1/4" SHEET BALSA - 2 REQ'D
W5
3/16" SHEET BALSA - 2 REQ'D
W3
1/8" SHEET BALSA - 2 REQ'D
WB3
1/8" PLYWOOD
WB2
WB1
1/8" PLYWOOD
F10
3/4" SHEET BALSA
F2
1/8" PLYWOOD
F1
1/8" PLYWOOD
F3
1/8" PLYWOOD
W4
W5
WING TIP DETAIL
F9
1/8" PLYWOOD
N2
1/4" PLYWOOD
NOTE BEVEL
N7
N6
1/8" PLYWOOD
F8
1/8" PLYWOOD
N3
1/8" PLYWOOD
N4
N5
1/8" PLYWOOD
N1
3/16" PLYWOOD
F12
1/4" SHEET BALSA
F7
F6
F5
F4
FORMERS F4 TO F7 1/8" - SHEET BALSA
F11
1/4" SHEET BALSA
NOTE BEVEL
WF1
3/16" SHEET BALSA
NOTE BEVEL
AERONCA C-3
1935 MASTER MODEL
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0 1 2 3 4 5 6
SHEET 2 of 2
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