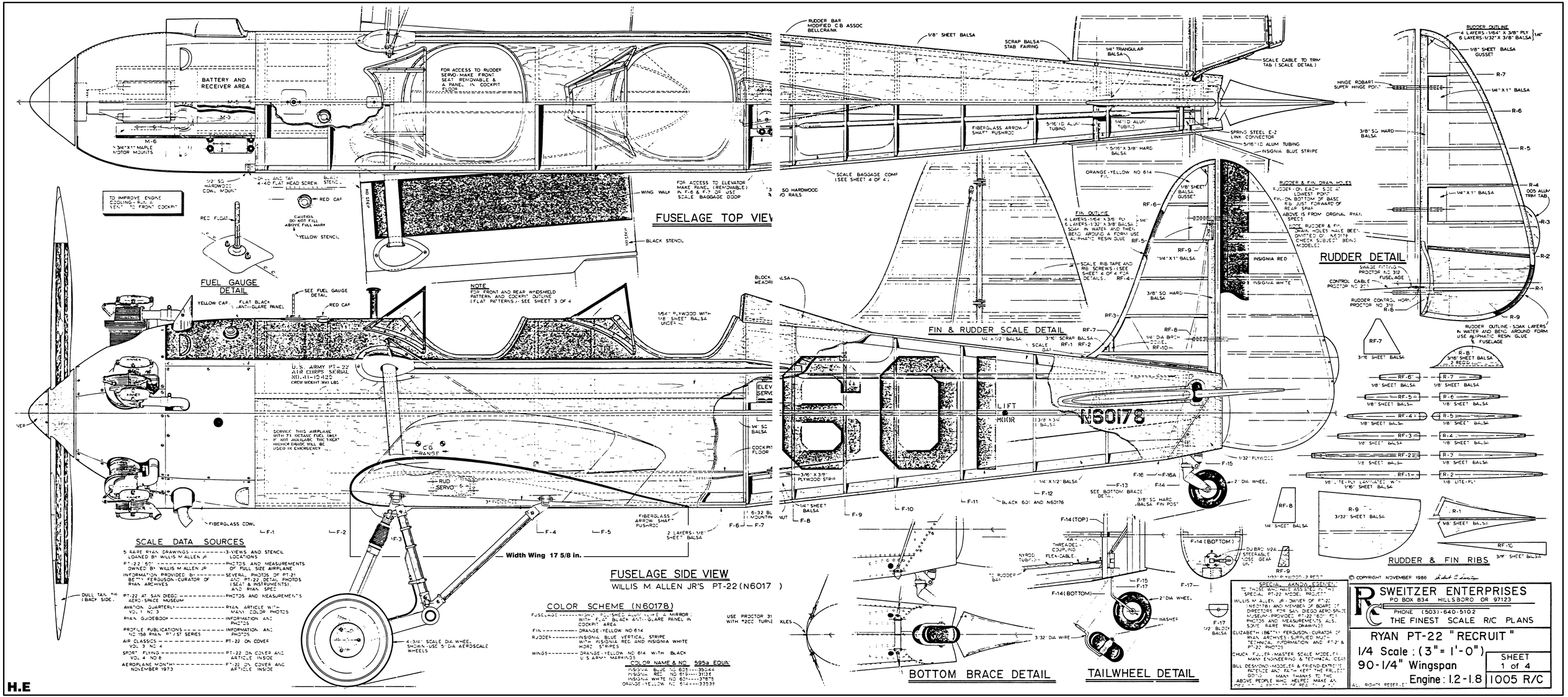
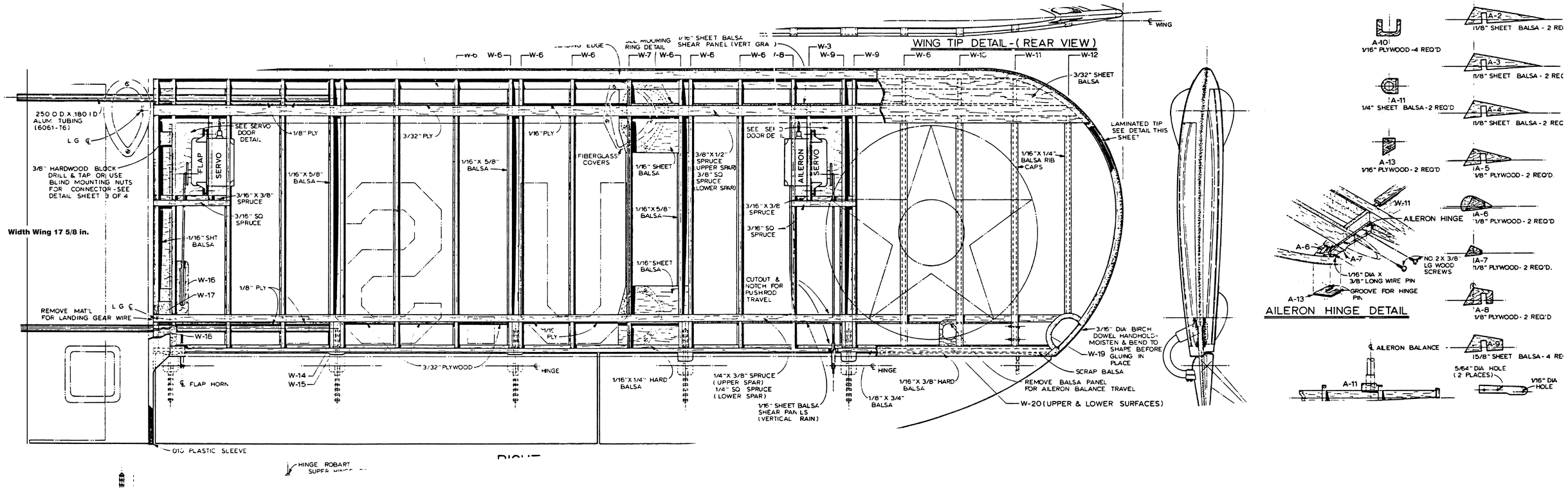
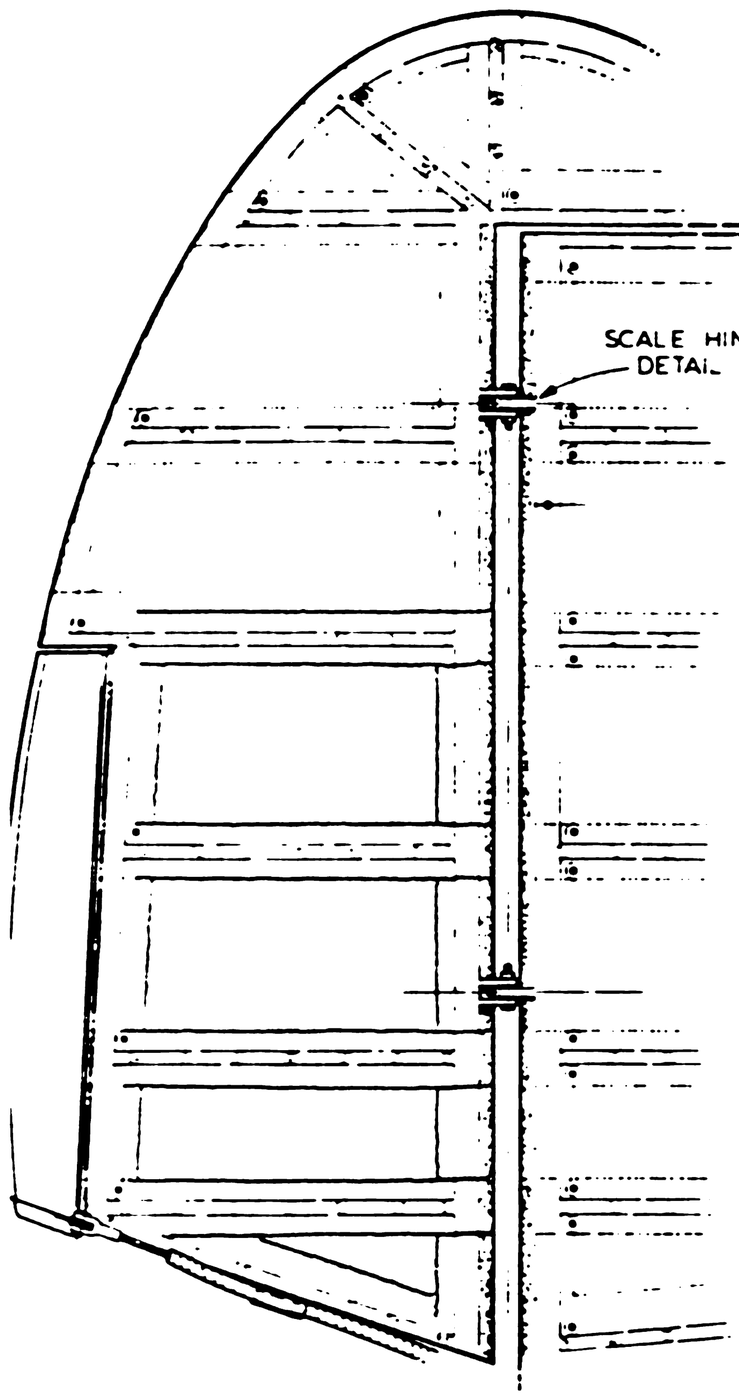
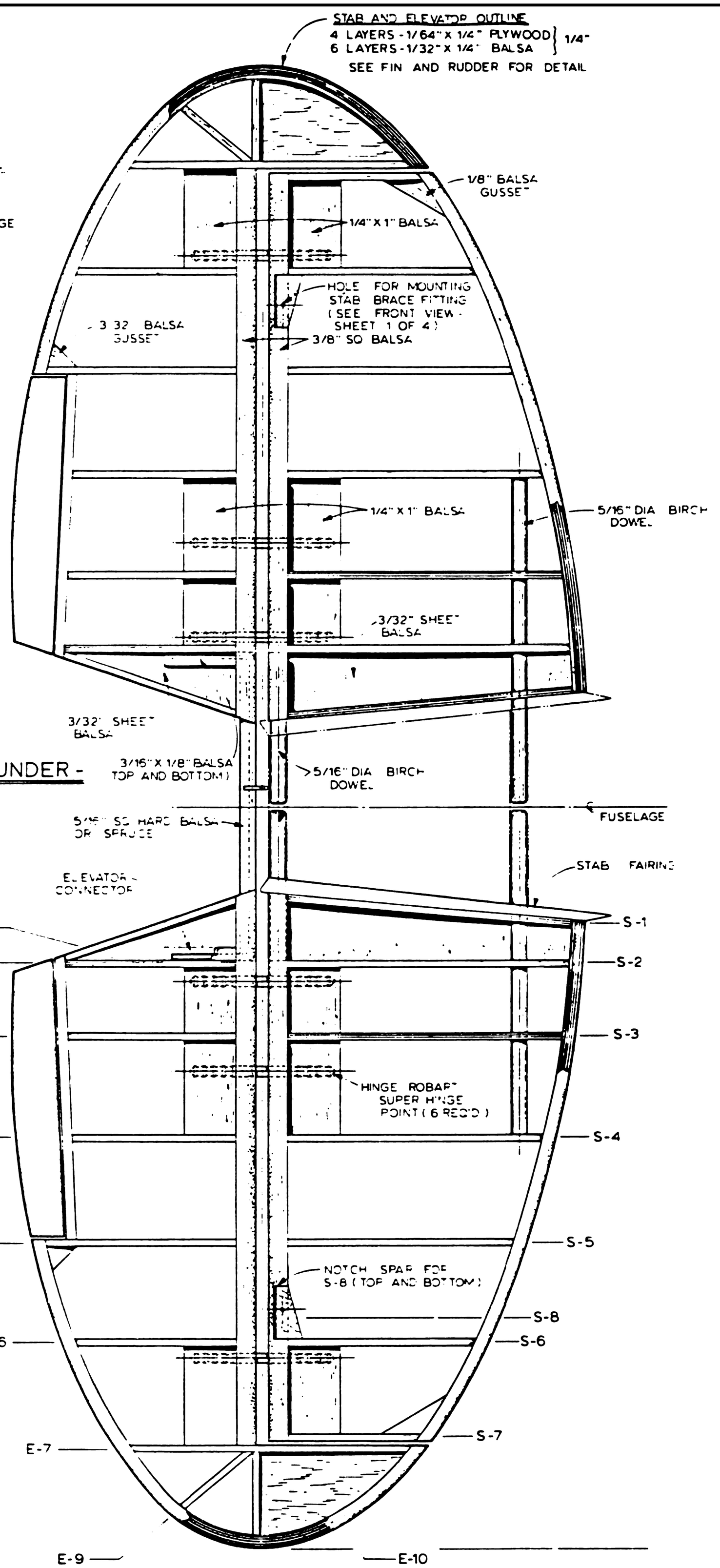

FUSELAGE TOP VIEW
BATTERY AND RECEIVER AREA
FOR ACCESS TO RUDDER SERVO-MAKE FRONT SEAT REMOVABLE & A PANEL IN COCKPIT FLOOR
FOR ACCESS TO ELEVATOR MAKE PANEL (REMOVABLE) IN R-6 & R-7 OF USE SCALE BAGGAGE DOOR
WING WALK
BLACK STENCIL
YELLOW STENCIL
RED CAP
RED FLOAT
CAUTION DO NOT FILL ABOVE FULL MARK
TO IMPROVE ENGINE COOLING - RUN A VENT TO FRONT COCKPIT
FUEL GAUGE DETAIL
SEE FUEL GAUGE DETAIL
YELLOW CAP
FLAT BLACK ANTI-GLARE PANEL
NOTE
FOR FRONT AND REAR WINDSHIELD PATTERN AND COCKPIT OUTLINE (FLAT PATTERNS) SEE SHEET 3 OF 4
1/64" PLYWOOD WITH 1/8" SHEET BALSA UNDER
U.S. ARMY PT-22 AIR CORPS SERIAL NO. 41-15425
CREW WEIGHT 180 LBS
SERVICE THIS AIRPLANE WITH 73 OCTANE FUEL ONLY IF NOT AVAILABLE THE NEXT HIGHER GRADE WILL BE USED IN EMERGENCY
C.G. RANGE
RUD SERVO
FIBERGLASS COWL
FIBERGLASS ARROW SHAFT PUSHROD
2 LAYERS - 1/8" SHEET BALSA
Width Wing 17 5/8 in.
FUSELAGE SIDE VIEW
WILLIS M. ALLEN JR'S PT-22 (N6017)
4-3/4" SCALE DIA WHEEL SHOWN USE 5" DIA AEROSCALE WHEELS
F-1
F-2
F-3
F-4
F-5
F-6
F-7
F-8
F-9
F-10
F-11
F-12
F-13
F-14 (TOP)
F-14 (BOTTOM)
F-15
F-16
F-16A
F-17
RUDDER BAR MODIFIED CB ASSOC BELLCRANK
1/8" SHEET BALSA
SCRAP BALSA STAB FAIRING
1/4" TRIANGULAR BALSA
SCALE CABLE TO TRIM TAB (SCALE DETAIL)
FIBERGLASS ARROW SHAFT PUSHROD
5/16" ID ALUM TUBING
1/4" ID ALUM TUBING
SPRING STEEL E-Z LINK CONNECTOR
5/16" ID ALUM TUBING
INSIGNIA BLUE STRIPE
5/16" X 3/8" HARD BALSA
SCALE BAGGAGE COMP (SEE SHEET 4 OF 4)
ORANGE-YELLOW NO 614 FIN
1/8" SHEET BALSA GUSSET
FIN OUTLINE
4 LAYERS-1/64" X 3/8" PLY
6 LAYERS-1/32" X 3/8" BALSA
SOAK IN WATER AND THEN BEND AROUND A FORM USE ALPHATIC RESIN GLUE
SCALE RIB TAPE AND RIB SCREWS - (SEE SHEET 4 OF 4 FOR DETAILS.
INSIGNIA RED
INSIGNIA WHITE
3/8" SQ HARD BALSA
FIN & RUDDER SCALE DETAIL
1/4" X 1/2" BALSA
3/16" SCRAP BALSA
1/4" DIA BRCH DOWEL
LIFT MOOR
N60178
3/8" X 3/8" PLYWOOD STRIP
1/4" SHEET BALSA
BLACK 601 AND N60176
SEE BOTTOM BRACE DETAIL
3/8" SQ HARD BALSA FIN POST
2" DIA WHEEL
1/32" PLYWOOD
1/4" SHEET BALSA
RUDDER & FIN DRAIN HOLES
RUDDER - ON EACH SIDE AT LOWEST POINT
FIN - ON BOTTOM OF BASE RIB JUST FORWARD OF REAR SPAR
ABOVE IS FROM ORIGINAL RYAN SPECS
NOTE RUDDER & FIN DRAIN HOLES HAVE BEEN OMITTED ON N60176 CHECK SUBJECT BEING MODELED
RUDDER DETAIL
RUDDER OUTLINE
4 LAYERS-1/64" X 3/8" PLY
6 LAYERS-1/32" X 3/8" BALSA
1/8" SHEET BALSA GUSSET
HINGE ROBART SUPER HINGE POINT
1/4" X 1" BALSA
3/8" SQ HARD BALSA
005 ALUM TRIM TAB
SWAGE FITTING PROCTOR NO 312
FUSELAGE
CONTROL CABLE PROCTOR NO 22
RUDDER CONTROL HORN PROCTOR NO 316
RUDDER OUTLINE - SOAK LAYERS IN WATER AND BEND AROUND FORM USE ALPHATIC RESIN GLUE
RUDDER & FIN RIBS
1/8" LITE-PLY LAMINATED W/ 1/16" SHEET BALSA
3/32" SHEET BALSA
1/8" SHEET BALSA
3/16" SHEET BALSA
2 REQD
1/8" LITE-PLY
BOTTOM BRACE DETAIL
TAILWHEEL DETAIL
NYROD TUBING
THREADED COUPLING
FLEXCABLE
TO RUDDER BAR
3/32" DIA WIRE
WASHER
DU BRO 1/2A STEERABLE NOSE GEAR UNIT
1/32" PLYWOOD - 2 REQD
1/2" BLOCK BALSA
SCALE DATA SOURCES
5 RARE RYAN DRAWINGS LOANED BY WILLIS M ALLEN JR - 3-VIEWS AND STENCIL LOCATIONS
PT-22 601 OWNED BY WILLIS M ALLEN JR - PHOTOS AND MEASUREMENTS OF FULL SIZE AIRPLANE
INFORMATION PROVIDED BY BETTY FERGUSON - CURATOR OF RYAN ARCHIVES - SEVERAL PHOTOS OF PT-21 AND PT-22 DETAIL PHOTOS (SEAT & INSTRUMENTS) AND RYAN SPEC
PT-22 AT SAN DIEGO AERO-SPACE MUSEUM - PHOTOS AND MEASUREMENTS
AVIATION QUARTERLY VOL 1 NO 3 - RYAN ARTICLE WITH MANY COLOR PHOTOS
RYAN GUIDEBOOK - INFORMATION AND PHOTOS
PROFILE PUBLICATIONS NO 158 RYAN PT/ST SERIES - INFORMATION AND PHOTOS
AIR CLASSICS VOL 3 NO 4 - PT-22 ON COVER
SPORT FLYING VOL 4 NO 8 - PT-22 ON COVER AND ARTICLE INSIDE
AEROPLANE MONTHLY NOVEMBER 1973 - PT-22 ON COVER AND ARTICLE INSIDE
DULL TAN THE (BACK SIDE)
COLOR SCHEME (N60178)
FUSELAGE - HIGHLY POLISHED ALUMINUM & MIRROR WITH FLAT BLACK ANTI-GLARE PANEL IN COCKPIT AREA
FIN - ORANGE-YELLOW NO 614
RUDDER - INSIGNIA BLUE VERTICAL STRIPE WITH INSIGNIA RED AND INSIGNIA WHITE HORZ STRIPES
WINGS - ORANGE-YELLOW NO 614 WITH BLACK U.S. ARMY MARKINGS
COLOR NAME & NO. 595a EQUIV.
INSIGNIA BLUE NO 602 - 35044
INSIGNIA RED NO 615 - 31136
INSIGNIA WHITE NO 601 - 37875
ORANGE-YELLOW NO 614 - 33538
USE PROCTOR 31 WITH #202 TURNBUCKLES
SPECIAL AKNOWLEDGEMENT TO THOSE WHO HAVE ASSISTED IN THIS SPECIAL PT-22 MODEL PROJECT
WILLIS M. ALLEN JR - OWNER OF PT-22 (N60178) AND MEMBER OF BOARD OF DIRECTORS FOR SAN DIEGO AERO-SPACE MUSEUM - PROVIDED PT-22 (601) PT-21 PHOTOS AND MEASUREMENTS ALSO SOME RARE RYAN DRAWINGS
ELIZABETH (BETTY) FERGUSON - CURATOR OF RYAN ARCHIVES - SUPPLIED MUCH TECHNICAL INFORMATION AND PT-21 & PT-22 PHOTOS
CHUCK FULLER - MASTER SCALE MODELER - MANY ENGINEERING & TECHNICAL IDEAS
BILL DESMOND - MODELER & FRIEND - EXTREME PATIENCE AND FAITH KEPT THE PROJECT GOING - MANY THANKS TO THE ABOVE PEOPLE WHO HELPED MAKE AN INFORMATIVE PLAN OF REALISTIC
© COPYRIGHT NOVEMBER 1986
ALL RIGHTS RESERVED
SWEITZER ENTERPRISES
PO BOX 834 HILLSBORO OR 97123
PHONE (503)-640-5102
THE FINEST SCALE R/C PLANS
RYAN PT-22 "RECRUIT"
1/4 Scale : (3" = 1'-0")
90-1/4" Wingspan
Engine : 1.2-1.8
SHEET 1 of 4
1005 R/C
H.E

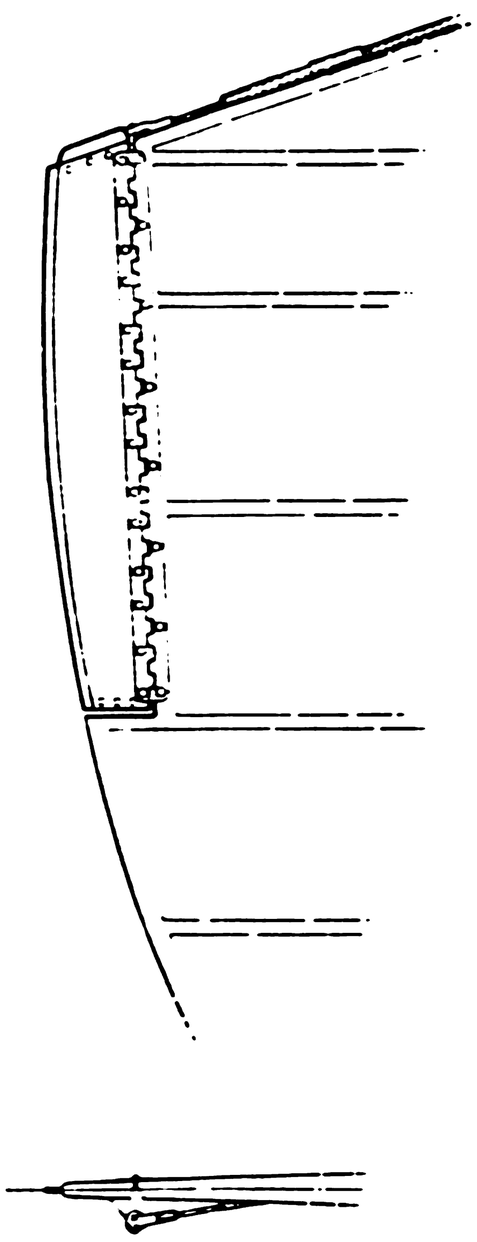

WING TIP DETAIL - (REAR VIEW)
℄ WING
W-6 W-6 W-6 W-6 W-7 W-6 W-6 W-6 W-8 W-3 W-9 W-9 W-6 W-10 W-11 W-12
SEE MOUNTING RING DETAIL
1/16" SHEET BALSA SHEAR PANEL (VERT GRA)
3/32" SHEET BALSA
LAMINATED TIP SEE DETAIL THIS SHEET
250 O D X .180 I D ALUM TUBING (6061-T6)
L G ℄
3/8" HARDWOOD BLOCK DRILL & TAP OR USE BLIND MOUNTING NUTS FOR CONNECTOR - SEE DETAIL SHEET 3 OF 4
FLAP
SERVO
SEE SERVO DOOR DETAIL
1/8" PLY
3/32" PLY
1/16" PLY
1/16" X 5/8" BALSA
FIBERGLASS COVERS
1/16" SHEET BALSA
3/8" X 1/2" SPRUCE UPPER SPAR) 3/8" SQ SPRUCE (LOWER SPAR)
AILERON SERVO
1/16" X 1/4" BALSA RIB CAPS
3/16" X 3/8" SPRUCE
3/16" SQ SPRUCE
1/16" X 5/8" BALSA
1/16" SHEET BALSA
CUTOUT & NOTCH FOR PUSHROD TRAVEL
Width Wing 17 5/8 in.
1/16" SHT BALSA
W-16
W-17
1/8" PLY
REMOVE MAT'L FOR LANDING GEAR WIRE
W-18
1/16 PLY
3/16" DIA BIRCH DOWEL HANDHOLD - MOISTEN & BEND TO SHAPE BEFORE GLUING IN PLACE
W-19
SCRAP BALSA
REMOVE BALSA PANEL FOR AILERON BALANCE TRAVEL
W-20 (UPPER & LOWER SURFACES)
℄ FLAP HORN
W-14
W-15
3/32" PLYWOOD
℄ HINGE
1/16" X 1/4" HARD BALSA
1/4" X 3/8" SPRUCE (UPPER SPAR) 1/4" SQ SPRUCE (LOWER SPAR)
1/16" SHEET BALSA SHEAR PAN LS (VERTICAL RAIN)
℄ HINGE
1/8" X 3/4" BALSA
1/16" X 3/8" HARD BALSA
.010 PLASTIC SLEEVE
HINGE ROBART SUPER HINGE
RIGHT
A-10
1/16" PLYWOOD - 4 REQ'D
A-2
1/8" SHEET BALSA - 2 REQ
A-11
1/4" SHEET BALSA - 2 REQ'D
A-3
1/8" SHEET BALSA - 2 REQ
A-4
1/8" SHEET BALSA - 2 REQ
A-13
1/16" PLYWOOD - 2 REQ'D
A-5
1/8" PLYWOOD - 2 REQ'D.
W-11
AILERON HINGE
A-6
1/8" PLYWOOD - 2 REQ'D
A-6
A-7
NO 2 X 3/8" LG WOOD SCREWS
A-7
1/8" PLYWOOD - 2 REQ'D.
1/16" DIA X 3/8" LONG WIRE PIN
GROOVE FOR HINGE PIN
A-13
AILERON HINGE DETAIL
A-8
1/8" PLYWOOD - 2 REQ'D
℄ AILERON BALANCE
A-9
1/8" SHEET BALSA - 4 REQ
5/64" DIA HOLE (2 PLACES)
1/16" DIA HOLE
A-11

H.E



ELEVATOR AND STABILIZER UNDER-SURFACE SCALE DETAIL





SCALE TRIM TAB HORN

ELEVATOR

STABILIZER