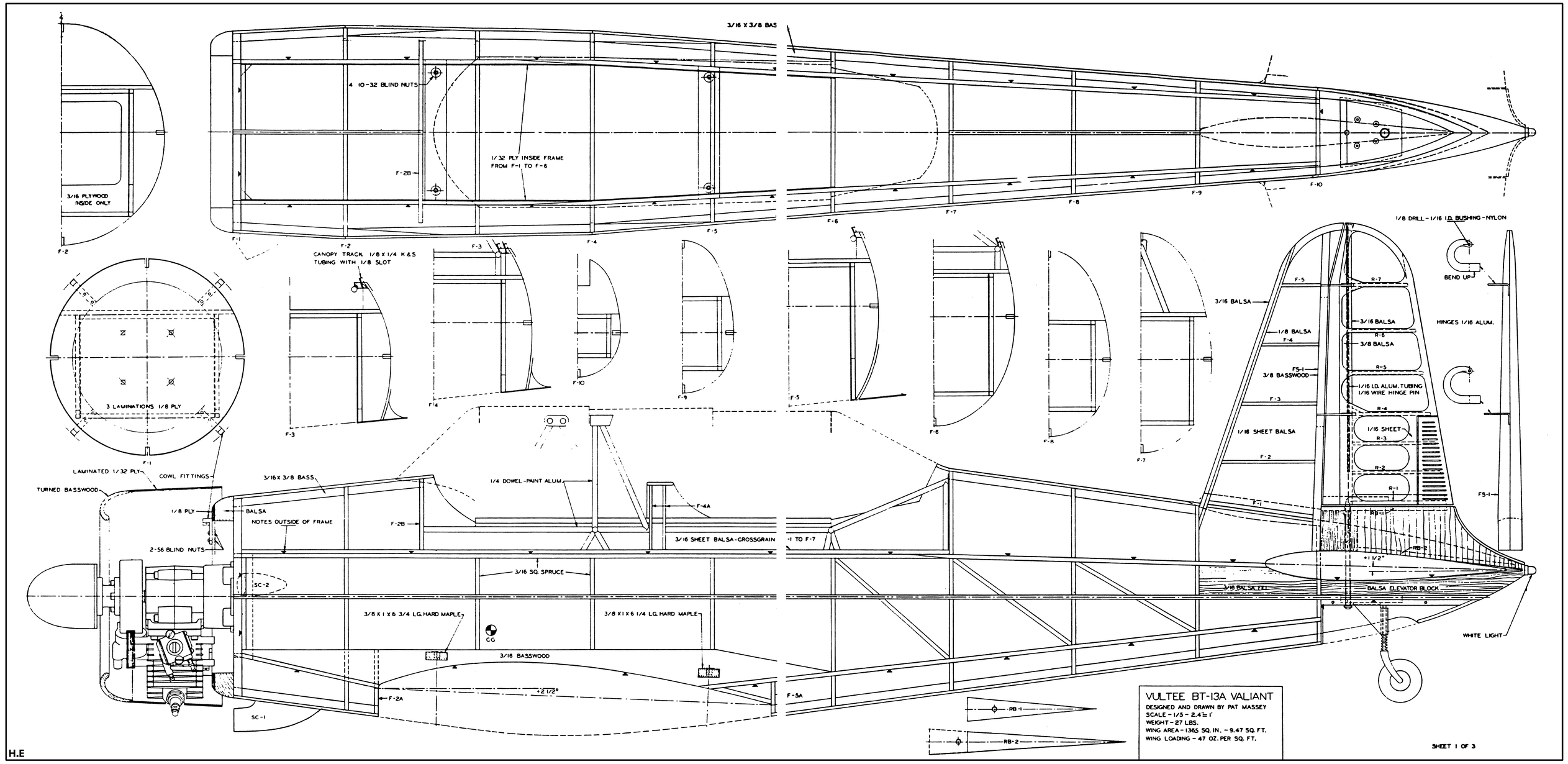
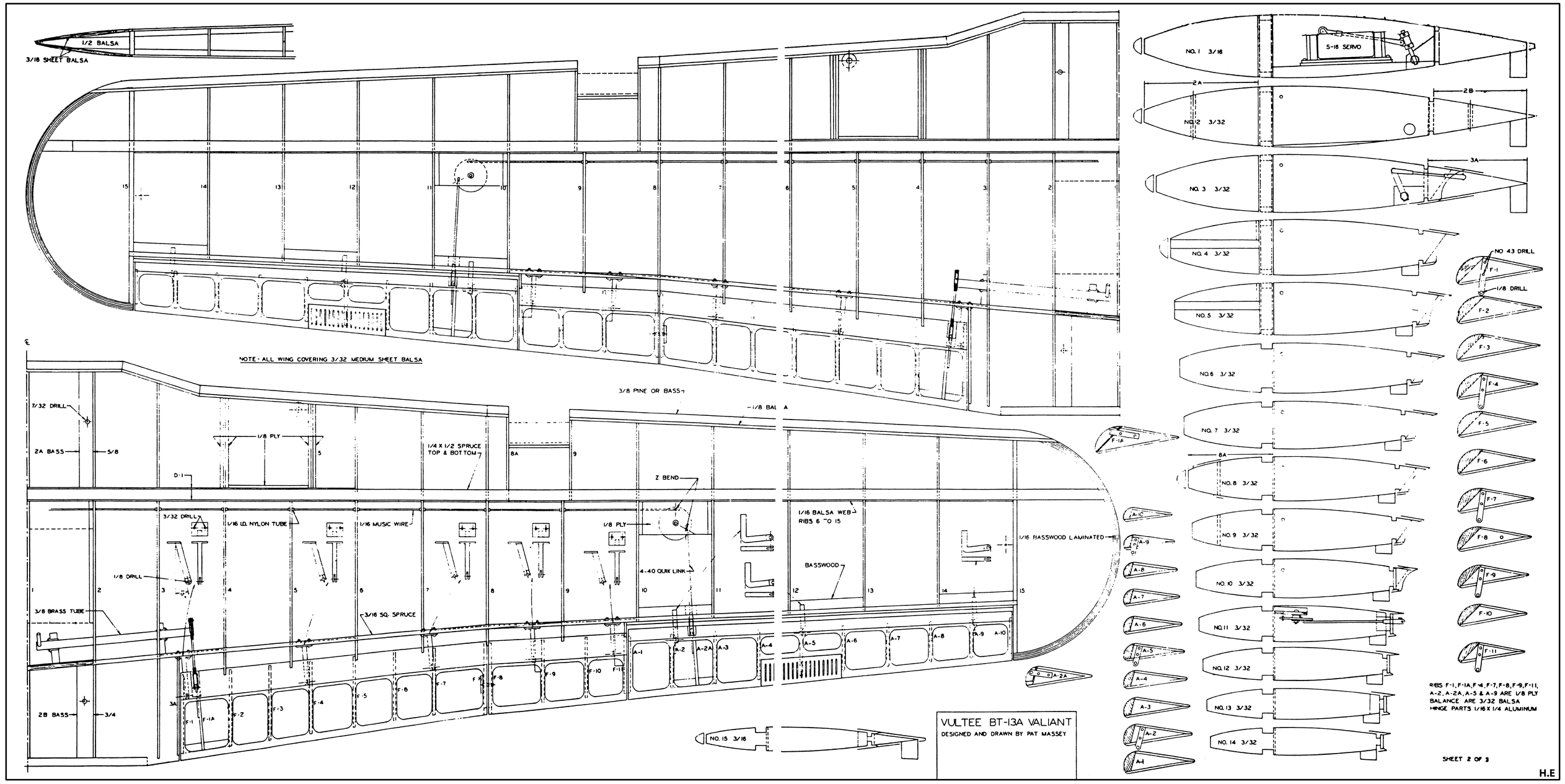
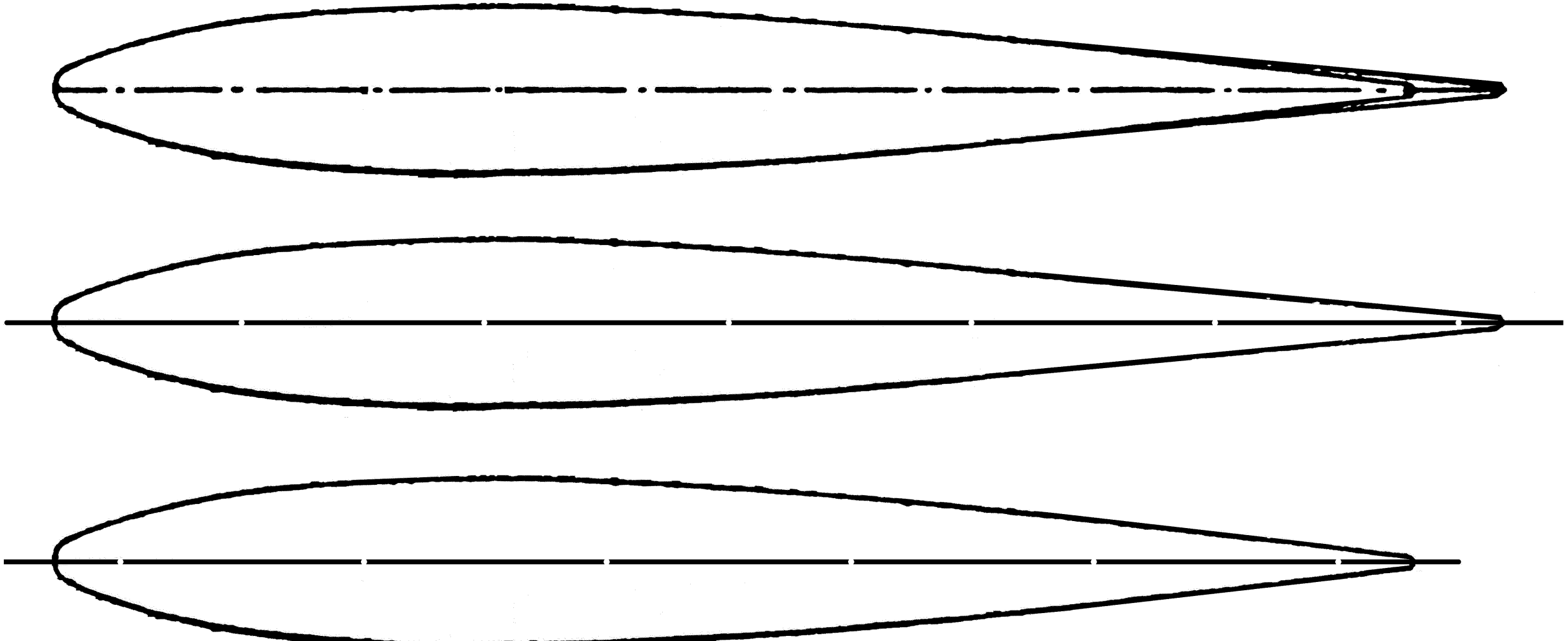
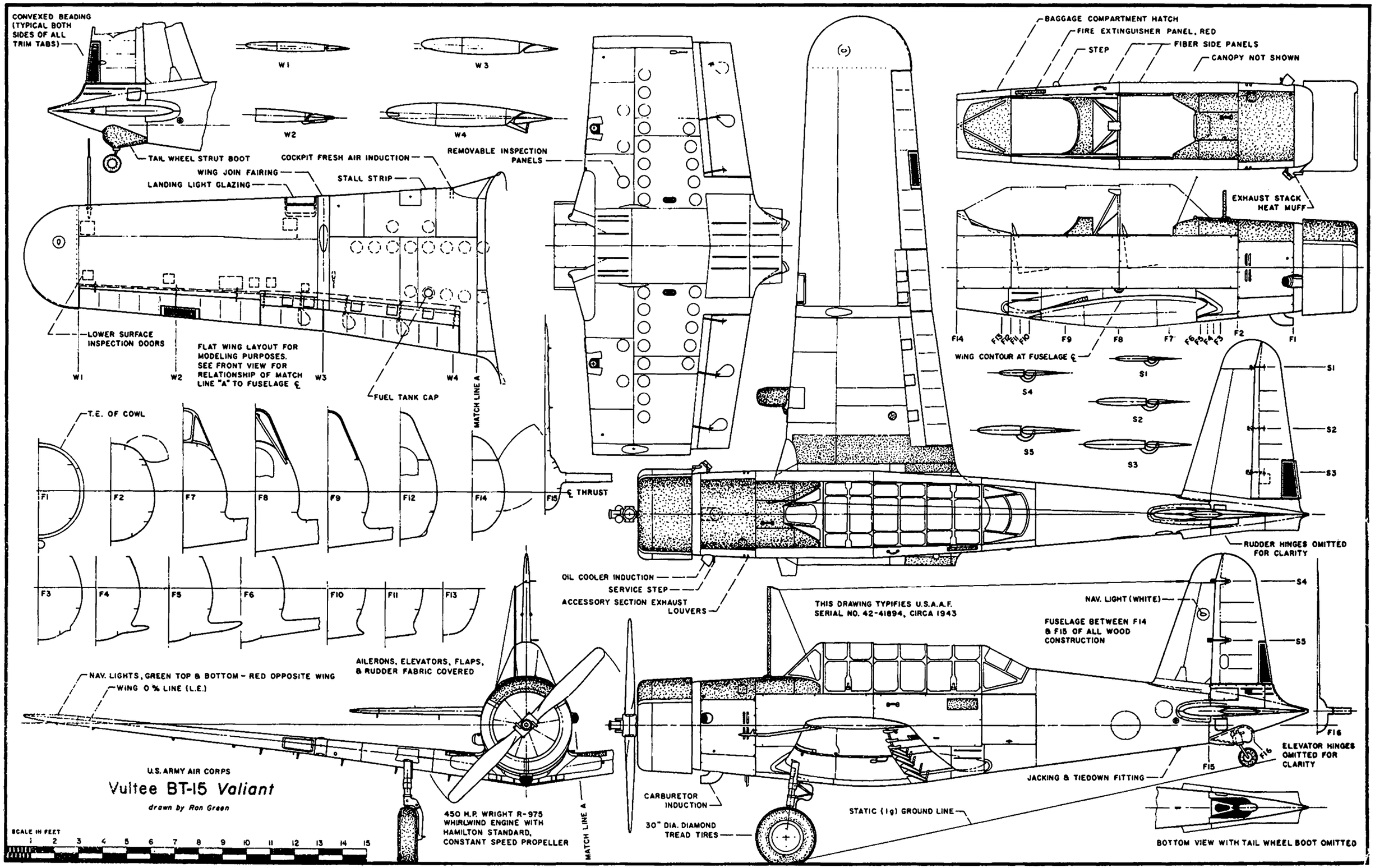

3/16 X 3/8 BAS
4 10-32 BLIND NUTS
1/32 PLY INSIDE FRAME
FROM F-1 TO F-6
F-2B
3/16 PLYWOOD
INSIDE ONLY
F-2
F-1
F-3
F-4
F-5
F-6
F-7
F-8
F-9
F-10
CANOPY TRACK 1/8 X 1/4 K&S
TUBING WITH 1/8 SLOT
3 LAMINATIONS 1/8 PLY
LAMINATED 1/32 PLY
COWL FITTINGS
TURNED BASSWOOD
3/16 X 3/8 BASS
1/8 PLY
BALSA
NOTES OUTSIDE OF FRAME
2-56 BLIND NUTS
1/4 DOWEL-PAINT ALUM.
F-4A
3/16 SHEET BALSA-CROSSGRAIN
3/16 SQ. SPRUCE
SC-2
3/8 X 1 X 6 3/4 LG. HARD MAPLE
3/8 X 1 X 6 1/4 LG. HARD MAPLE
CG
3/16 BASSWOOD
+2 1/2°
F-2A
SC-1
F-5A
1/8 DRILL - 1/16 I.D. BUSHING - NYLON
BEND UP
HINGES 1/16 ALUM.
3/16 BALSA
1/8 BALSA
3/8 BALSA
3/8 BASSWOOD
FS-1
1/16 I.D. ALUM. TUBING
1/16 WIRE HINGE PIN
1/16 SHEET BALSA
1/16 SHEET
R-1
R-2
R-3
R-4
R-5
R-6
R-7
RB-1
RB-2
+1 1/2°
3/16 BALSA
BALSA ELEVATOR BLOCK
WHITE LIGHT
VULTEE BT-13A VALIANT
DESIGNED AND DRAWN BY PAT MASSEY
SCALE - 1/5 - 2.4" = 1'
WEIGHT - 27 LBS.
WING AREA - 1365 SQ. IN. - 9.47 SQ. FT.
WING LOADING - 47 OZ. PER SQ. FT.
SHEET 1 OF 3
H.E


1/2 BALSA
3/16 SHEET BALSA
NOTE - ALL WING COVERING 3/32 MEDIUM SHEET BALSA
3/8 PINE OR BASS
1/8 BALSA
7/32 DRILL
2A BASS
5/8
1/8 PLY
1/4 X 1/2 SPRUCE TOP & BOTTOM
D-1
Z BEND
3/32 DRILL
1/16 I.D. NYLON TUBE
1/16 MUSIC WIRE
1/8 PLY
1/16 BALSA WEB RIBS 6 TO 15
1/16 BASSWOOD LAMINATED
BASSWOOD
4-40 QUIK LINK
1/8 DRILL
3/8 BRASS TUBE
3/16 SQ. SPRUCE
2B BASS
3/4
F-1
F-1A
F-2
F-3
F-4
F-5
F-6
F-7
F-8
F-9
F-10
F-11
A-1
A-2
A-2A
A-3
A-4
A-5
A-6
A-7
A-8
A-9
A-10
NO. 15 3/16
NO. 1 3/16
S-16 SERVO
2A
2B
NO. 2 3/32
3A
NO. 3 3/32
NO. 4 3/32
NO. 5 3/32
NO. 6 3/32
NO. 7 3/32
8A
NO. 8 3/32
NO. 9 3/32
NO. 10 3/32
NO. 11 3/32
NO. 12 3/32
NO. 13 3/32
NO. 14 3/32
NO. 43 DRILL
1/8 DRILL
RIBS F-1, F-1A, F-4, F-7, F-8, F-9, F-11, A-2, A-2A, A-5 & A-9 ARE 1/8 PLY
BALANCE ARE 3/32 BALSA
HINGE PARTS 1/16 X 1/4 ALUMINUM
VULTEE BT-13A VALIANT
DESIGNED AND DRAWN BY PAT MASSEY
SHEET 2 OF 3
H.E



Missing Sheet 3 Plan with Horizontal Stabilizer and Elevator


CONVEXED BEADING (TYPICAL BOTH SIDES OF ALL TRIM TABS)
W1
W3
W2
W4
TAIL WHEEL STRUT BOOT
COCKPIT FRESH AIR INDUCTION
REMOVABLE INSPECTION PANELS
WING JOIN FAIRING
STALL STRIP
LANDING LIGHT GLAZING
LOWER SURFACE INSPECTION DOORS
FLAT WING LAYOUT FOR MODELING PURPOSES. SEE FRONT VIEW FOR RELATIONSHIP OF MATCH LINE "A" TO FUSELAGE ℄
FUEL TANK CAP
MATCH LINE A
T.E. OF COWL
F1
F2
F7
F8
F9
F12
F14
F15
℄ THRUST
F3
F4
F5
F6
F10
F11
F13
AILERONS, ELEVATORS, FLAPS, & RUDDER FABRIC COVERED
NAV. LIGHTS, GREEN TOP & BOTTOM - RED OPPOSITE WING
WING 0 % LINE (L.E.)
U.S. ARMY AIR CORPS
Vultee BT-15 Valiant
drawn by Ron Green
SCALE IN FEET
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
450 H.P. WRIGHT R-975 WHIRLWIND ENGINE WITH HAMILTON STANDARD, CONSTANT SPEED PROPELLER
MATCH LINE A
OIL COOLER INDUCTION
SERVICE STEP
ACCESSORY SECTION EXHAUST LOUVERS
CARBURETOR INDUCTION
30" DIA. DIAMOND TREAD TIRES
BAGGAGE COMPARTMENT HATCH
FIRE EXTINGUISHER PANEL, RED
STEP
FIBER SIDE PANELS
CANOPY NOT SHOWN
EXHAUST STACK HEAT MUFF
F14
F9
F8
F7
F2
F1
WING CONTOUR AT FUSELAGE ℄
S1
S4
S2
S5
S3
RUDDER HINGES OMITTED FOR CLARITY
THIS DRAWING TYPIFIES U.S.A.A.F. SERIAL NO. 42-41894, CIRCA 1943
NAV. LIGHT (WHITE)
FUSELAGE BETWEEN F14 & F15 OF ALL WOOD CONSTRUCTION
F16
ELEVATOR HINGES OMITTED FOR CLARITY
JACKING & TIEDOWN FITTING
STATIC (1g) GROUND LINE
BOTTOM VIEW WITH TAIL WHEEL BOOT OMITTED