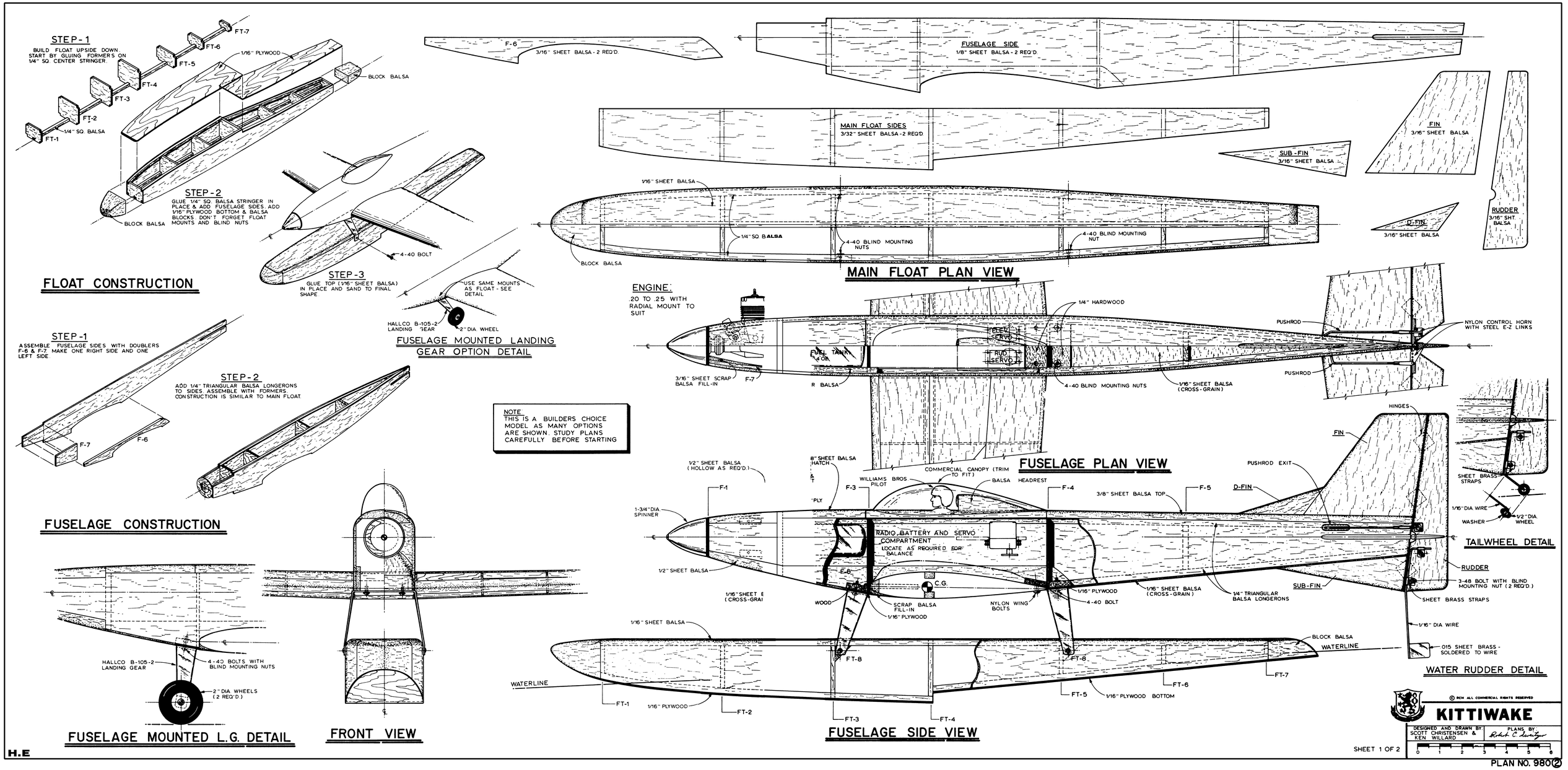
STEP-1
BUILD FLOAT UPSIDE DOWN. START BY GLUING FORMERS ON 1/4" SQ. CENTER STRINGER.
FT-7
FT-6
FT-5
FT-4
FT-3
FT-2
FT-1
1/4" SQ. BALSA
1/16" PLYWOOD
BLOCK BALSA
STEP-2
GLUE 1/4" SQ. BALSA STRINGER IN PLACE & ADD FUSELAGE SIDES. ADD 1/16" PLYWOOD BOTTOM & BALSA BLOCKS. DON'T FORGET FLOAT MOUNTS AND BLIND NUTS.
BLOCK BALSA
4-40 BOLT
STEP-3
GLUE TOP (1/16" SHEET BALSA) IN PLACE AND SAND TO FINAL SHAPE.
FLOAT CONSTRUCTION
USE SAME MOUNTS AS FLOAT - SEE DETAIL
HALLCO B-105-2 LANDING GEAR
2" DIA. WHEEL
FUSELAGE MOUNTED LANDING GEAR OPTION DETAIL
STEP-1
ASSEMBLE FUSELAGE SIDES WITH DOUBLERS F-6 & F-7. MAKE ONE RIGHT SIDE AND ONE LEFT SIDE.
F-7
F-6
STEP-2
ADD 1/4" TRIANGULAR BALSA LONGERONS TO SIDES. ASSEMBLE WITH FORMERS. CONSTRUCTION IS SIMILAR TO MAIN FLOAT.
FUSELAGE CONSTRUCTION
F-6
3/16" SHEET BALSA - 2 REQ'D.
FUSELAGE SIDE
1/8" SHEET BALSA - 2 REQ'D.
MAIN FLOAT SIDES
3/32" SHEET BALSA - 2 REQ'D.
SUB-FIN
3/16" SHEET BALSA
FIN
3/16" SHEET BALSA
RUDDER
3/16" SHT. BALSA
D-FIN
3/16" SHEET BALSA
1/16" SHEET BALSA
1/4" SQ. BALSA
4-40 BLIND MOUNTING NUTS
4-40 BLIND MOUNTING NUT
BLOCK BALSA
MAIN FLOAT PLAN VIEW
ENGINE:
.20 TO .25 WITH RADIAL MOUNT TO SUIT
1/4" HARDWOOD
PUSHROD
NYLON CONTROL HORN WITH STEEL E-Z LINKS
ELEV. SERVO
FUEL TANK 4 OZ.
RUD. SERVO
3/16" SHEET SCRAP BALSA FILL-IN
F-7
R BALSA
4-40 BLIND MOUNTING NUTS
1/16" SHEET BALSA (CROSS-GRAIN)
PUSHROD
NOTE
THIS IS A BUILDERS CHOICE MODEL AS MANY OPTIONS ARE SHOWN. STUDY PLANS CAREFULLY BEFORE STARTING
FUSELAGE PLAN VIEW
HINGES
FIN
PUSHROD EXIT
1/2" SHEET BALSA (HOLLOW AS REQ'D.)
8" SHEET BALSA HATCH
COMMERCIAL CANOPY (TRIM TO FIT)
WILLIAMS BROS. PILOT
BALSA HEADREST
F-1
F-3
F-4
F-5
3/8" SHEET BALSA TOP
D-FIN
1-3/4" DIA. SPINNER
RADIO, BATTERY AND SERVO COMPARTMENT
LOCATE AS REQUIRED FOR BALANCE
1/2" SHEET BALSA
F-6
C.G.
1/16" SHEET BALSA (CROSS-GRAIN)
WOOD
SCRAP BALSA FILL-IN
1/16" PLYWOOD
NYLON WING BOLTS
1/16" PLYWOOD
4-40 BOLT
1/16" SHEET BALSA (CROSS-GRAIN)
1/4" TRIANGULAR BALSA LONGERONS
SUB-FIN
SHEET BRASS STRAPS
1/16" DIA. WIRE
WASHER
1/2" DIA. WHEEL
TAILWHEEL DETAIL
RUDDER
3-48 BOLT WITH BLIND MOUNTING NUT (2 REQ'D.)
SHEET BRASS STRAPS
1/16" DIA. WIRE
.015 SHEET BRASS - SOLDERED TO WIRE
WATER RUDDER DETAIL
1/16" SHEET BALSA
BLOCK BALSA
WATERLINE
FT-8
FT-8
FT-7
FT-6
FT-5
1/16" PLYWOOD BOTTOM
WATERLINE
FT-1
1/16" PLYWOOD
FT-2
FT-3
FT-4
FUSELAGE SIDE VIEW
HALLCO B-105-2 LANDING GEAR
4-40 BOLTS WITH BLIND MOUNTING NUTS
2" DIA. WHEELS (2 REQ'D.)
FUSELAGE MOUNTED L.G. DETAIL
FRONT VIEW
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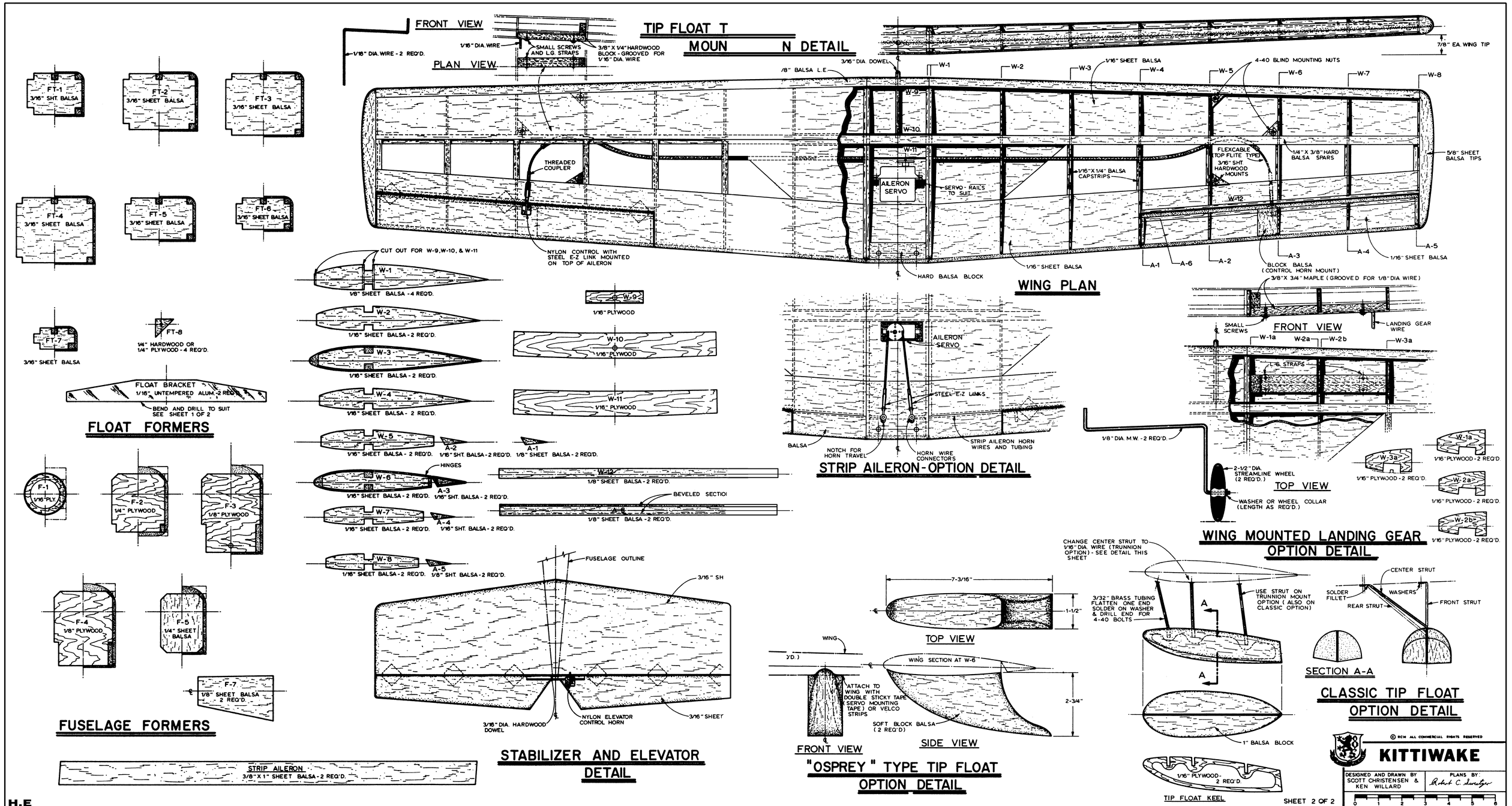
KITTIWAKE
DESIGNED AND DRAWN BY: SCOTT CHRISTENSEN & KEN WILLARD
PLANS BY: Robert C. Lange
0 1 2 3 4 5 6
SHEET 1 OF 2
H.E
PLAN NO. 980(2)


TIP FLOAT T
MOUN N DETAIL
FRONT VIEW
PLAN VIEW
1/16" DIA. WIRE - 2 REQ'D.
1/16" DIA. WIRE
SMALL SCREWS AND L.G. STRAPS
3/8" X 1/4" HARDWOOD BLOCK - GROOVED FOR 1/16" DIA. WIRE
7/8" EA. WING TIP
3/16" DIA DOWEL
1/8" BALSA L.E.
1/16" SHEET BALSA
4-40 BLIND MOUNTING NUTS
W-1
W-2
W-3
W-4
W-5
W-6
W-7
W-8
W-9
W-10
W-11
W-12
FLEXCABLE TOP FLITE TYPE
3/16" SHT HARDWOOD MOUNTS
1/4" X 3/8" HARD BALSA SPARS
5/8" SHEET BALSA TIPS
THREADED COUPLER
AILERON SERVO
SERVO - RAILS TO SUIT
1/16" X 1/4" BALSA CAPSTRIPS
NYLON CONTROL WITH STEEL E-Z LINK MOUNTED ON TOP OF AILERON
HARD BALSA BLOCK
1/16" SHEET BALSA
A-1
A-6
A-2
A-3
A-4
A-5
BLOCK BALSA (CONTROL HORN MOUNT)
WING PLAN
FT-1 3/16" SHT. BALSA
FT-2 3/16" SHEET BALSA
FT-3 3/16" SHEET BALSA
FT-4 3/16" SHEET BALSA
FT-5 3/16" SHEET BALSA
FT-6 3/16" SHEET BALSA
FT-7 3/16" SHEET BALSA
FT-8 1/4" HARDWOOD OR 1/4" PLYWOOD - 4 REQ'D.
FLOAT BRACKET 1/16" UNTEMPERED ALUM. - 2 REQ'D.
BEND AND DRILL TO SUIT SEE SHEET 1 OF 2
FLOAT FORMERS
CUT OUT FOR W-9, W-10, & W-11
1/8" SHEET BALSA - 4 REQ'D.
1/16" SHEET BALSA - 2 REQ'D.
1/16" SHEET BALSA - 2 REQ'D.
1/16" SHEET BALSA - 2 REQ'D.
1/16" PLYWOOD
1/16" PLYWOOD
1/16" PLYWOOD
1/16" SHEET BALSA - 2 REQ'D.
1/16" SHT. BALSA - 2 REQ'D.
1/8" SHEET BALSA - 2 REQ'D.
HINGES
1/16" SHEET BALSA - 2 REQ'D.
1/16" SHT. BALSA - 2 REQ'D.
1/8" SHEET BALSA - 2 REQ'D.
BEVELED SECTIO
1/8" SHEET BALSA - 2 REQ'D.
1/16" SHEET BALSA - 2 REQ'D.
1/16" SHT. BALSA - 2 REQ'D.
1/16" SHEET BALSA - 2 REQ'D.
1/8" SHT. BALSA - 2 REQ'D.
F-1 1/16" PLY
F-2 1/4" PLYWOOD
F-3 1/8" PLYWOOD
F-4 1/8" PLYWOOD
F-5 1/4" SHEET BALSA
F-7 1/8" SHEET BALSA 2 REQ'D.
FUSELAGE FORMERS
STRIP AILERON 3/8" X 1" SHEET BALSA - 2 REQ'D.
FUSELAGE OUTLINE
3/16" SH
3/16" DIA. HARDWOOD DOWEL
NYLON ELEVATOR CONTROL HORN
3/16" SHEET
STABILIZER AND ELEVATOR DETAIL
AILERON SERVO
STEEL E-Z LINKS
BALSA
NOTCH FOR HORN TRAVEL
HORN WIRE CONNECTORS
STRIP AILERON HORN WIRES AND TUBING
STRIP AILERON-OPTION DETAIL
7-3/16"
1-1/2"
TOP VIEW
WING
WING SECTION AT W-6
ATTACH TO WING WITH DOUBLE STICKY TAPE (SERVO MOUNTING TAPE) OR VELCO STRIPS
SOFT BLOCK BALSA (2 REQ'D)
2-3/4"
FRONT VIEW
SIDE VIEW
"OSPREY" TYPE TIP FLOAT OPTION DETAIL
SMALL SCREWS
FRONT VIEW
LANDING GEAR WIRE
3/8" X 3/4" MAPLE (GROOVED FOR 1/8" DIA. WIRE)
W-1a
W-2a
W-2b
W-3a
L.G. STRAPS
1/8" DIA. M.W. - 2 REQ'D.
2-1/2" DIA. STREAMLINE WHEEL (2 REQ'D.)
TOP VIEW
WASHER OR WHEEL COLLAR (LENGTH AS REQ'D.)
1/16" PLYWOOD - 2 REQ'D.
WING MOUNTED LANDING GEAR OPTION DETAIL
CHANGE CENTER STRUT TO 1/16" DIA. WIRE (TRUNNION OPTION) - SEE DETAIL THIS SHEET
3/32" BRASS TUBING FLATTEN ONE END SOLDER ON WASHER & DRILL END FOR 4-40 BOLTS
USE STRUT ON TRUNNION MOUNT OPTION (ALSO ON CLASSIC OPTION)
A
1" BALSA BLOCK
1/16" PLYWOOD - 2 REQ'D.
TIP FLOAT KEEL
CENTER STRUT
SOLDER FILLET
WASHERS
FRONT STRUT
REAR STRUT
SECTION A-A
CLASSIC TIP FLOAT OPTION DETAIL
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DESIGNED AND DRAWN BY SCOTT CHRISTENSEN & KEN WILLARD
PLANS BY
SHEET 2 OF 2
0 1 2 3 4 5 6
H.E
PLAN NO. 980 2