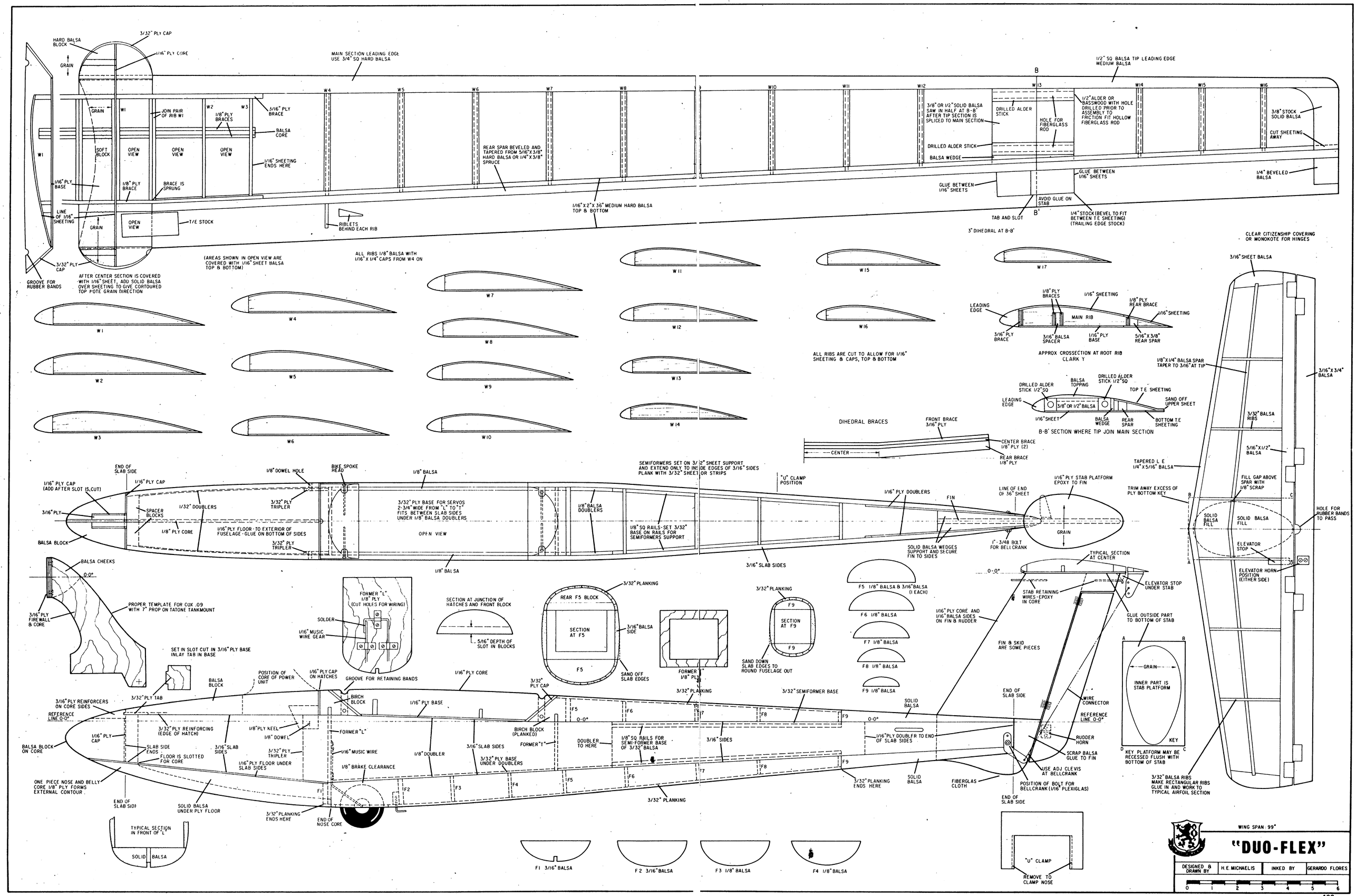
HARD BALSA BLOCK
3/32" PLY CAP
1/16" PLY CORE
GRAIN
MAIN SECTION LEADING EDGE USE 3/4" SQ HARD BALSA
1/2" SQ BALSA TIP LEADING EDGE MEDIUM BALSA
W1
W2
W3
W4
W5
W6
W7
W8
W9
W10
W11
W12
W13
W14
W15
W16
W17
JOIN PAIR OF RIB W1
1/8" PLY BRACES
5/16" PLY BRACE
BALSA CORE
SOFT BLOCK
OPEN VIEW
1/16" SHEETING ENDS HERE
1/16" PLY BASE
1/8" PLY BRACE
BRACE IS SPRUNG
LINE OF 1/16" SHEETING
1/E STOCK
RIBLETS BEHIND EACH RIB
REAR SPAR BEVELED AND TAPERED FROM 5/16"X3/8" HARD BALSA OR 1/4"X3/8" SPRUCE
1/16"X2"X36" MEDIUM HARD BALSA TOP & BOTTOM
3/8" OR 1/2" SOLID BALSA SAW IN HALF AT B-B' AFTER TIP SECTION IS SPLICED TO MAIN SECTION
DRILLED ALDER STICK
HOLE FOR FIBERGLASS ROD
1/2" ALDER OR BASSWOOD WITH HOLE DRILLED PRIOR TO ASSEMBLY TO FRICTION FIT HOLLOW FIBERGLASS ROD
3/8" STOCK SOLID BALSA
CUT SHEETING AWAY
BALSA WEDGE
GLUE BETWEEN 1/16" SHEETS
1/4" BEVELED BALSA
AVOID GLUE ON STAB
TAB AND SLOT
1/4" STOCK (BEVEL TO FIT BETWEEN T.E. SHEETING) (TRAILING EDGE STOCK)
3" DIHEDRAL AT B-B'
CLEAR CITIZENSHIP COVERING OR MONOKOTE FOR HINGES
GROOVE FOR RUBBER BANDS
AFTER CENTER SECTION IS COVERED WITH 1/16" SHEET, ADD SOLID BALSA OVER SHEETING TO GIVE CORTOURED TOP. NOTE GRAIN DIRECTION
(AREAS SHOWN IN OPEN VIEW ARE COVERED WITH 1/16" SHEET BALSA TOP & BOTTOM)
ALL RIBS 1/8" BALSA WITH 1/16" X 1/4" CAPS FROM W4 ON
ALL RIBS ARE CUT TO ALLOW FOR 1/16" SHEETING & CAPS, TOP & BOTTOM
LEADING EDGE
1/8" PLY BRACES
1/16" SHEETING
1/8" PLY REAR BRACE
MAIN RIB
3/16" PLY BRACE
3/16" BALSA SPACER
1/16" PLY BASE
5/16"X3/8" REAR SPAR
APPROX CROSSECTION AT ROOT RIB CLARK Y
1/8"X1/4" BALSA SPAR TAPER TO 3/16" AT TIP
3/16"X3/4" BALSA
DRILLED ALDER STICK 1/2" SQ
BALSA TOPPING
DRILLED ALDER STICK 1/2" SQ
TOP T.E. SHEETING
SAND OFF UPPER SHEET
3/8" OR 1/2" BALSA
1/16" SHEET
BALSA WEDGE
REAR SPAR
BOTTOM T.E. SHEETING
B-B' SECTION WHERE TIP JOIN MAIN SECTION
3/32" BALSA RIBS
5/16"X1/2" BALSA
TAPERED L.E. 1/4"X5/16" BALSA
FILL GAP ABOVE SPAR WITH 1/8" SCRAP
SOLID BALSA FILL
HOLE FOR RUBBER BANDS TO PASS
ELEVATOR STOP
ELEVATOR HORN POSITION (EITHER SIDE)
DIHEDRAL BRACES
FRONT BRACE 3/16" PLY
CENTER
CENTER BRACE 1/8" PLY (2)
REAR BRACE 1/8" PLY
SEMIFORMERS SET ON 3/32" SHEET SUPPORT AND EXTEND ONLY TO INSIDE EDGES OF 3/16" SIDES PLANK WITH 3/32" SHEET OR STRIPS
"U" CLAMP POSITION
END OF SLAB SIDE
1/16" PLY CAP
1/16" PLY CAP (ADD AFTER SLOT IS CUT)
1/8" DOWEL HOLE
BIKE SPOKE HEAD
1/8" BALSA
3/16" PLY
SPACER BLOCKS
1/32" DOUBLERS
3/32" PLY TRIPLER
3/32" PLY BASE FOR SERVOS 2-3/4" WIDE FROM "L" TO "T" FITS BETWEEN SLAB SIDES UNDER 1/8" BALSA DOUBLERS
1/8" BALSA DOUBLERS
1/8" PLY CORE
1/16" PLY FLOOR - TO EXTERIOR OF FUSELAGE - GLUE ON BOTTOM OF SIDES
OPEN VIEW
1/8" SQ RAILS - SET 3/32" BASE ON RAILS FOR SEMIFORMERS SUPPORT
BALSA BLOCK
1/8" BALSA
3/16" SLAB SIDES
1/16" PLY DOUBLERS
FIN
LINE OF END OF 36" SHEET
1/16" PLY STAB PLATFORM EPOXY TO FIN
TRIM AWAY EXCESS OF PLY BOTTOM KEY
GRAIN
SOLID BALSA WEDGES SUPPORT AND SECURE FIN TO SIDES
1"-3/48 BOLT FOR BELLCRANK
TYPICAL SECTION AT CENTER
BALSA CHEEKS
0-0"
3/16" PLY FIREWALL & CORE
PROPER TEMPLATE FOR COX .09 WITH 7" PROP ON TATONE TANKMOUNT
FORMER "L" 1/8" PLY (CUT HOLES FOR WIRING)
SOLDER
1/16" MUSIC WIRE GEAR
SET IN SLOT CUT IN 3/16" PLY BASE INLAY TAB IN BASE
SECTION AT JUNCTION OF HATCHES AND FRONT BLOCK
5/16" DEPTH OF SLOT IN BLOCKS
REAR F5 BLOCK
3/32" PLANKING
SECTION AT F5
3/16" BALSA SIDE
F5
SAND OFF SLAB EDGES
SECTION AT F9
SAND DOWN SLAB EDGES TO ROUND FUSELAGE OUT
F5 1/8" BALSA & 3/16" BALSA (1 EACH)
F6 1/8" BALSA
F7 1/8" BALSA
F8 1/8" BALSA
F9 1/8" BALSA
STAB RETAINING WIRES - EPOXY IN CORE
ELEVATOR STOP UNDER STAB
1/16" PLY CORE AND 1/16" BALSA SIDES ON FIN & RUDDER
GLUE OUTSIDE PART TO BOTTOM OF STAB
FIN & SKID ARE SOME PIECES
INNER PART IS STAB PLATFORM
KEY
KEY PLATFORM MAY BE RECESSED FLUSH WITH BOTTOM OF STAB
3/32" BALSA RIBS MAKE RECTANGULAR RIBS GLUE IN AND WORK TO TYPICAL AIRFOIL SECTION
POSITION OF CORE OF POWER UNIT
1/16" PLY CAP ON HATCHES
GROOVE FOR RETAINING BANDS
1/16" PLY CORE
3/32" PLY CAP
3/32" PLANKING
3/32" SEMIFORMER BASE
SOLID BALSA
3/32" PLY TAB
BALSA BLOCK
BIRCH BLOCK
1/16" PLY BASE
3/16" PLY REINFORCERS ON CORE SIDES
REFERENCE LINE 0-0"
3/32" PLY REINFORCING (EDGE OF HATCH)
1/8" PLY KEEL
1/8" DOWEL
FORMER "L"
BIRCH BLOCK (PLANKED)
FORMER "T"
DOUBLER TO HERE
1/8" SQ RAILS FOR SEMI-FORMER BASE OF 3/32" BALSA
1/16" PLY DOUBLER TO END OF SLAB SIDES
RUDDER HORN
WIRE CONNECTOR
BALSA BLOCK ON CORE
1/16" PLY CAP
SLAB SIDE ENDS
FLOOR IS SLOTTED FOR CORE
3/16" SLAB SIDES
3/32" PLY TRIPLER
1/16" PLY FLOOR UNDER SLAB SIDES
1/16" MUSIC WIRE
1/8" DOUBLER
3/16" SLAB SIDES
3/32" PLY BASE UNDER DOUBLERS
1/8" BRAKE CLEARANCE
3/16" SIDES
SCRAP BALSA GLUE TO FIN
USE ADJ CLEVIS AT BELLCRANK
ONE PIECE NOSE AND BELLY CORE 1/8" PLY FORMS EXTERNAL CONTOUR
END OF SLAB SIDE
SOLID BALSA UNDER PLY FLOOR
3/32" PLANKING ENDS HERE
END OF NOSE CORE
3/32" PLANKING
3/32" PLANKING ENDS HERE
SOLID BALSA
FIBERGLAS CLOTH
POSITION OF BOLT FOR BELLCRANK (1/16" PLEXIGLAS)
TYPICAL SECTION IN FRONT OF "L"
SOLID BALSA
F1 3/16" BALSA
F2 3/16" BALSA
F3 1/8" BALSA
F4 1/8" BALSA
"U" CLAMP
REMOVE TO CLAMP NOSE
WING SPAN: 99"
"DUO-FLEX"
DESIGNED & DRAWN BY
H.E. MICHAELIS
INKED BY
GERARDO FLORES
0 1 2 3 4 5 6