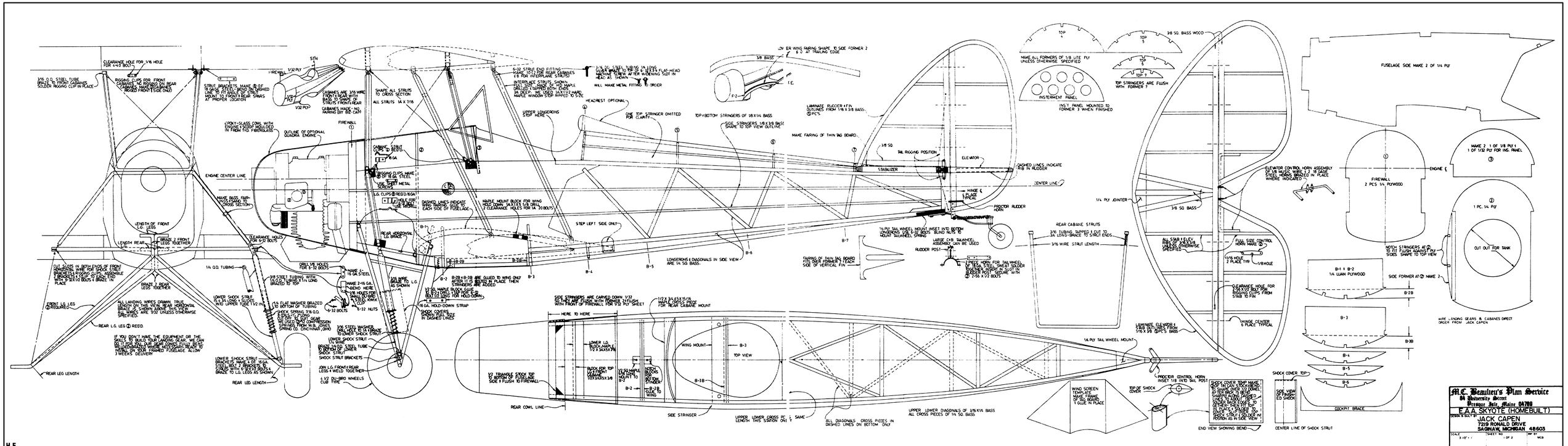
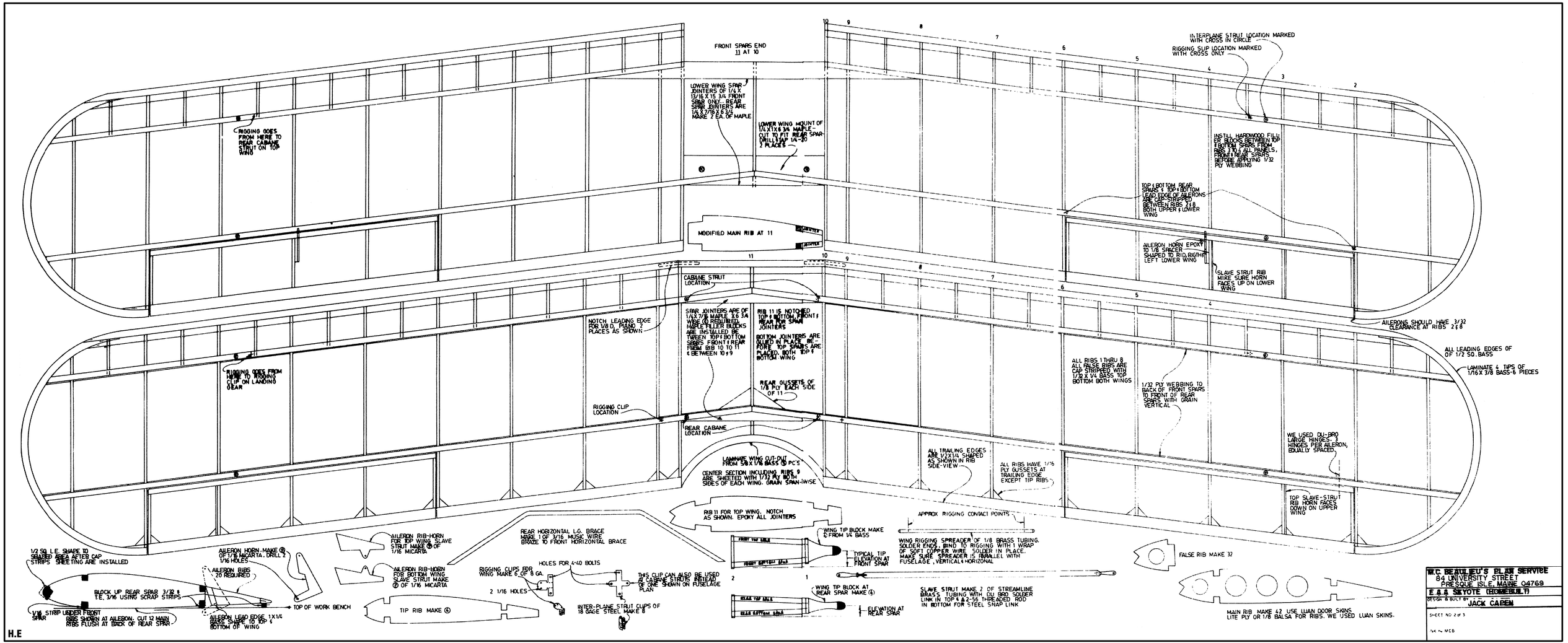

CLEARANCE HOLE FOR 1/16 HOLE FOR 4-40 BOLT
3/16 O.D. STEEL TUBE BRAZE TO FRONT CABANES SOLDER RIGGING CLIP IN PLACE
RIGGING CLIPS FOR FRONT CABANES. NO RIGGING ON REAR CABANES. MAKE RIGS BRAIDED. RIGGED FRONT & SIDE ONLY
STRUT BRACKETS MADE OF 1/8" LAMINATED PLYWOOD. CAN BE MOUNTED TO FRONT & REAR SPARS AT PROPER LOCATION
FIREWALL
1/32 PLY
S/N
1/8 SQ.
1/32 PLYD
CABANES ARE 3/16 WIRE FRONT & REAR WITH BASS TO SHAPE OF STRUTS FRONT & REAR
CABANES MADE IN NO FAIRING DIT 812-CAN
SHAPE ALL STRUTS TO CROSS SECTION
ALL STRUTS 1A X 3/8
6-32 STRUT END FITTING MADE OUT OF THE SUPER CABANES FIS FOR INTERPLANE STRUTS
INTERPLANE STRUTS SHOWN. SHAPE TO TOP OF SPAR & DRILL & TAPPED 1/4 DEEP. WE USED 1/4X1/2 HARD MAPLE WINDOW STOP APPLIED TO LIFE
3/16 DIA. STEEL TUBING IN LONG SLOTS BRAZE TO TOP OF SPAR & USE A FLAT-HEAD MACHINE SCREW AFTER WIDENING SLOT IN HEAD AS SHOWN
WILL MAKE METAL FITTING TO ORDER
HEADREST OPTIONAL
UPPER LONGERONS TOP HERE
ONE TOP STRINGER OMITTED FOR CLARITY
TOP & BOTTOM STRINGERS OF 1/8 X 1/4 BASS
SIDE STRINGERS 1/8 X 3/8 BASS SHAPE TO TOP VIEW OUTLINE
LAMINATE RUDDER & FIN OUTLINES FROM 1/8 X 3/8 BASS 4 PC'S
MAKE FAIRING OF THIN TAG BOARD
3/8 SQ.
TAIL RIGGING POSITION
STABILIZER
ELEVATOR
DASHED LINES INDICATE RIB IN RUDDER
CENTER LINE
HINGE & 3 PLACE TYPICAL
PROCTOR RUDDER HORN
1/4 PLY JOINTER
3/8 SQ. BASS
REAR CABANE STRUTS
3/16 TUBING TAPERED & CUT TO 1/4 LONG BRACE TO STRUT ENDS
3/16 WIRE STRUT LENGTH
ALL STABS & ELEV. RIBS OF 1/8 X 3/8 UNLESS OTHERWISE SPECIFIED
FULL SIZE CONTROL HORN MADE UP
1/8 HOLE 2 PLACE TYP.
1/8 HOLE
CLEARANCE HOLE FOR 1/4X1/2 BOLT FOR RIGGING CLIPS FROM STAB TO FIN
HINGE CENTER & PLACE TYPICAL
LAMINATE ELEVATOR & STAB OUTLINES FROM 1/16 X 3/8 CUT'S BASS
1/4 PLY TAIL WHEEL MOUNT
PROCTOR CONTROL HORN INSET 1/8 INTO TAIL POST
TOP OF SHOCK COVER
SHOCK COVER TEMP MADE OUT OF 1/4 SQ. STICKS FOR SHAPE. USE 1/2 DOWEL, 3/8 DOWEL, 1/4 DOWEL & 1/8 SQ. STICKS. FINISH WITH DOPE & SANDING. SHOCK COVER TEMP MADE OUT OF 1/4 SQ. BASS (OMIT 3/8 SQ. STICKS) & 1/8 SQ. STICKS. FINISH WITH DOPE & SANDING. SHOCK STRUT & SQUARE INT POSITION AS IN SIDE VIEW (1)
END VIEW SHOWING BEND
SHOCK COVER TOP
SIDE VIEW OF FINISHED SHOCK
COCKPIT BRACE
CENTER LINE OF SHOCK STRUT
FUSELAGE SIDE MAKE 2 OF 1/4 PLY
MAKE 2 1 OF 1/8 PLY & 1 OF 1/32 PLY FOR INC. PANEL
FIREWALL 2 PCS 1/4 PLYWOOD
ENGINE ℄
1 PC. 1/4 PLY
OUT OUT FOR TANK
NOTCH STRINGERS AT ② TO FIT FLUSH AGAINST PLY SIDES SHAPE TO TOP VIEW
SIDE FORMER AT ② MAKE 2
B-1 & B-2 1/4 LAM PLYWOOD
B-2B
B-3
B-3B
B-4
B-5
B-6
WIRE LANDING GEARS & CABANES DIRECT ORDER FROM JACK CAPEN
ENGINE CENTER LINE
LENGTH OF FRONT L.G. LEGS
LENGTH REAR L.G. LEGS
BRAZE 2 FRONT LEGS TOGETHER
BRAZE 2 REAR LEGS TOGETHER
FULL SIZE IN BOTH ENDS OF FIRWALL DIMENSIONS WHERE THE STRUT FITTING BRACKETS & RIGGING CLIPS ASSEMBLE & BRACKETS TO TOP OF EACH END WITH 9" X 3/16 U BOLTS & BRAZE IN PLACE
FRONT L.G. LEG ② REQUIRED
REAR L.G. LEG ② REQ'D.
REAR LEG LENGTH
IF YOU DON'T HAVE THE EQUIPMENT OR THE SKILLS TO BUILD YOUR LANDING GEAR, WE CAN DO THE WELDING & MACHINE WORK FOR YOU. WE HAVE A COMPLETE WELDED LANDING GEAR READY TO INSTALL ON YOUR COMPLETED FUSELAGE. ALLOW 3 WEEKS DELIVERY
ALL LANDING WIRES DRAWN TRUE. BRACE OF THE WIRE IS AT HORIZONTAL. ALL WIRES ARE 3/32 UNLESS OTHERWISE SPECIFIED
CLEARANCE HOLES FOR 6-32 BOLTS
DRILL 1/8 HOLES FOR 6-32 BOLTS
1/4 O.D. TUBING
3/8 STEEL TUBING WITH 3/8 O.D. TUBING X 1/4 LONG BRAZED TO TOP
LOWER SHOCK STRUT INTO UPPER TUBE 1 1/2 IN.
1/4 FLAT WASHER BRAZED TO BOTTOM OF TUBING
SHOCK SPRING 7/16 O.D. X 3 1/2 LONG WE USED THE SPRINGS FROM W.B. JONES SPRING CO. CINCINNATI, OHIO
3/16 STEEL WASHER BRAZE TO 1/4 TUBING TO LOWER SHOCK STRUT
LOWER SHOCK STRUT 1/4 WIRE
BRAZE 1/4 O.D. STEEL TUBE TO BOTTOM OF LOWER SHOCK STRUT
SHOCK STRUT BRACKETS
JOIN L.G. FRONT & REAR LEGS & WELD TOGETHER
4 1/2 DIA. BRO WHEELS CUP TYPE
LOWER SHOCK STRUT BRACKETS MADE OUT OF 1/8 SQ. STEEL BRAZE TO 3/8 X 1/4 STEEL WITH 1/4 X 1/2 BOLTS. BRAZE TO L.G. LEGS AS SHOWN
REAR LEG LENGTH
MAKE 4 16 GA. STEEL
MAKE 2 #16 GA. BEND HERE
7/16 HOLES FOR 1/4 X 1/2 BOLTS
1/4 X 1/2 BOLTS
6-32 BOLTS
6-32 NUTS
3/8 WIRE BRACE TO L.G. AS SHOWN
B-2
B-2B & B-3B ARE GLUED TO WING ONLY AFTER IT IS BOLTED IN PLACE THEN STRINGERS ARE ADDED
1/2 SQ. MAPLE BLOCK GLUE & BOLT TO WING FOR HOLD-DOWN
1/4 X 1/2 BOLT
16 GA. HOLD-DOWN STRAP
SHOCK COVERS SHOWN REAL SIZE IN DASHED LINES
DASHED LINES INDICATE WIRE BRACE OUT OF EACH SIDE OF FUSELAGE
MAPLE MOUNT BLOCK FOR WING HOLD DOWN. USE 1/4 X 1/4 U.B. DRILL 2 CLEARANCE HOLES FOR 1/4 X 20 BOLTS
STEP LEFT SIDE ONLY
REAR HORIZONTAL TO BRACE
LONGERONS & DIAGONALS IN SIDE VIEW ARE 1/4 SQ. BASS.
DRAWING OF THIN TAG BOARD FITS OVER FIRWALL & PLACE SIDE OF VERTICAL FIN
1/4 PLY TAIL WHEEL MOUNT INSET INTO BOTTOM LONGERONS USE 1/4 X 20 BOLTS BLIND NUTS TO MOUNT TAILWHEEL SPRING
LARGE CAR TAILWHEEL ASSEMBLY CAN BE USED
RUDDER POST
LOWER HORN FOR TAIL WHEEL 1/8 STEEL STRIP. SHAPE SOLDER TO SPRING INSERT IN SLOT IN RUDDER POST. SECURE WITH ② 1/4X 1/2 BOLTS
SIDE STRINGERS ARE CARVED DOWN 1/32 ON THE TOP TO FLUSH WITH BOARDS 1/16 OUT WITH FRONT OF FIREWALL FOR 1/8 PLY SHEET
HERE TO HERE
LOWER LG. BLOCK MAPLE 1/2 X 3 X 3 1/2
1/2 X 3/4 MAPLE BLOCK MOUNT TO B-2
WING MOUNT
B-3
TOP VIEW
B-3B
B-2B
NOTCH BLOCKS FOR BUTTERFLY STRINGER
1/2 TRIANGLE STOCK TOP & BOTTOM OF FUSELAGE SIDE & PLUGS TO FIREWALL
BLOCK FOR TOP OF FRONT MOUNT VERTICAL 1/2 X 3 X 3 X 3/4
REAR CORE LINE
SIDE STRINGER
UPPER LOWER CROSS PC. SAME LENGTH THIS STATION ONLY
ALL DIAGONALS CROSS PIECES IN DASHED LINES ON BOTTOM ONLY
UPPER LOWER DIAGONALS OF 3/16 X 1/4 BASS ALL CROSS PIECES OF 1/4 SQ. BASS
WIND SCREEN TEMPLATE MADE FROM 1/8 SQ. STICKS & 1 GUSE IN PLACE
1/2 SQ. BASS
TOP 1
TOP 2
TOP 3
TOP 4
TOP 5
MAKE ALL FORMERS OF 1/8 LITE PLY UNLESS OTHERWISE SPECIFIED
INSTRUMENT PANEL
INST. PANEL MOUNTED TO FORMER 3 WHEN FINISHED
TOP STRINGERS ARE FLUSH WITH FORMER 7
1/2 DIA. ENGINE
1/2 DIA. ENGINE
1/2 DIA. ENGINE


FRONT SPARS END 11 AT 10
LOWER WING SPAR JOINTERS OF 1/4 X 13/16 X 15 3/4 FRONT SIDE ONLY. REAR SPAR JOINTERS ARE 1/4 X 27/8 X 8 3/4 MAKE 2 EA OF MAPLE
LOWER WING MOUNT OF 1/4 X 1 X 6 3/4 MAPLE - CUT TO FIT REAR SPAR DRILL 1/4-20 2 PLACES
RIGGING GOES FROM HERE TO REAR CABANE STRUT ON TOP WING
MODIFIED MAIN RIB AT 11
JOINTER
JOINTER
CABANE STRUT LOCATION
SPAR JOINTERS ARE OF 1/4 X 27/8 MAPLE X 6 3/4 WIDE OR REQUIRED. MAPLE FILLER BLOCKS ARE INSTALLED BETWEEN TOP & BOTTOM SPARS FRONT & REAR FROM RIB 10 TO 11 & BETWEEN 10 & 9
RIB 11 IS NOTCHED TOP & BOTTOM, FRONT & REAR FOR SPAR JOINTERS
BOTTOM JOINTERS ARE GLUED IN PLACE BEFORE TOP SPARS ARE PLACED, BOTH TOP & BOTTOM WING
NOTCH LEADING EDGE FOR 1/8 D, PLANO 2 PLACES AS SHOWN
RIGGING GOES FROM HERE TO WRIGGING CLIP ON LANDING GEAR
REAR GUSSETS OF 1/8 PLY EACH SIDE OF 11
RIGGING CLIP LOCATION
REAR CABANE LOCATION
LAMINATE WING CUT-OUT FROM 5/8 X 1/16 BASS 5 PC'S
CENTER SECTION INCLUDING RIBS 9 ARE SHEETED WITH 1/32 PLY BOTH SIDES OF EACH WING. GRAIN SPAN-WISE
INTERPLANE STRUT LOCATION MARKED WITH CROSS IN CIRCLE
RIGGING SLIP LOCATION MARKED WITH CROSS ONLY
INSTILL HARDWOOD FILLE ER BLOCKS BETWEEN TOP & BOTTOM SPARS FROM RIBS 3 TO 6 ALL PANELS, FRONT & REAR SPARS BEFORE APPLYING 1/32 PLY WEBBING
TOP & BOTTOM REAR SPARS & TOP & BOTTOM LEAD EDGE OF AILERONS ARE CAP-STRIPPED BETWEEN RIBS 2 & 8 BOTH UPPER & LOWER WING
AILERON HORN EPOXY TO 1/8 SPACER SHAPED TO RID, RIGHT & LEFT LOWER WING
SLAVE STRUT RIB MIKE SURE HORN FACES UP ON LOWER WING
AILERONS SHOULD HAVE 3/32 CLEARANCE AT RIBS 2 & 8
ALL LEADING EDGES OF OF 1/2 SQ. BASS
LAMINATE 4 TIPS OF 1/16 X 3/8 BASS-6 PIECES
ALL RIBS 1 THRU 8 ALL FALSE RIBS ARE CAP STRIPPED WITH 1/32 X 1/4 BASS TOP BOTTOM BOTH WINGS
1/32 PLY WEBBING TO BACK OF FRONT SPARS TO FRONT OF REAR SPARS WITH GRAIN VERTICAL
WE USED DU-PRO LARGE HINGES- 3 HINGES PER AILERON, EQUALLY SPACED.
TOP SLAVE-STRUT RIB HORN FACES DOWN ON UPPER WING
ALL TRAILING EDGES ARE 1/2 X 1/4 SHAPED AS SHOWN IN RIB SIDE-VIEW
ALL RIBS HAVE 1/16 PLY GUSSETS AT TRAILING EDGE EXCEPT TIP RIBS
RIB 11 FOR TOP WING. NOTCH AS SHOWN. EPOXY ALL JOINTERS
APPROX RIGGING CONTACT POINTS
WING TIP BLOCK MAKE 4 FROM 1/4 BASS
TYPICAL TIP ELEVATION AT FRONT SPAR
WING RIGGING SPREADER OF 1/8 BRASS TUBING. SOLDER ENDS, BIND TO RIGGING WITH 1 WRAP OF SOFT COPPER WIRE. SOLDER IN PLACE. MAKE SURE SPREADER IS PARALLEL WITH FUSELAGE, VERTICAL & HORIZONAL
FALSE RIB MAKE 32
WING TIP BLOCK AT REAR SPAR MAKE (4)
ELEVATION AT REAR SPAR
SLAVE STRUT MAKE 2 OF STREAMLINE BRASS TUBING WITH DU BRO SOLDER LINK IN TOP & A2-56 THREADED ROD IN BOTTOM FOR STEEL SNAP LINK
MAIN RIB MAKE 42 USE LUAN DOOR SKINS LITE PLY OR 1/8 BALSA FOR RIBS. WE USED LUAN SKINS.
1/2 SQ. L.E. SHAPE TO SHADED AREA AFTER CAP STRIPS SHEETING ARE INSTALLED
AILERON HORN MAKE (2) OF 1/8 MICARTA. DRILL 2 1/16 HOLES
AILERON RIBS 20 REQUIRED
BLOCK UP REAR SPAR 3/32 & T.E. 3/16 USING SCRAP STRIPS
1/16 STRIP UNDER FRONT SPAR
RIBS SHOWN AT AILERON. CUT 12 MAIN RIBS FLUSH AT BACK OF REAR SPAR
AILERON LEAD EDGE 1 X 1/4 BASS SHAPE TO TOP & BOTTOM OF WING
TOP OF WORK BENCH
AILERON RIB-HORN FOR TOP WING SLAVE STRUT MAKE (4) OF 1/16 MICARTA
AILERON RIB-HORN FOR BOTTOM WING SLAVE STRUT MAKE (2) OF 1/16 MICARTA
TIP RIB MAKE (6)
REAR HORIZONTAL L.G. BRACE MAKE 1 OF 3/16 MUSIC WIRE. BRAZE TO FRONT HORIZONTAL BRACE
RIGGING CLIPS FOR WING MAKE 6 OF 8 GA.
HOLES FOR 4-40 BOLTS
2 1/16 HOLES
THIS CLIP CAN ALSO BE USED AT CABANE STRUTS INSTEAD OF ONE SHOWN ON FUSELAGE PLAN
INTER-PLANE STRUT CLIPS OF 18 GAGE STEEL MAKE 8
H.E
W.C. BEAULIEU'S PLAN SERVICE
84 UNIVERSITY STREET
PRESQUE ISLE, MAINE 04769
E.A.A. SKYOTE (HOMEBUILT)
DESIGN & BUILT BY
JACK CAPEN
SHEET NO 2 OF 3
14 IN MCB