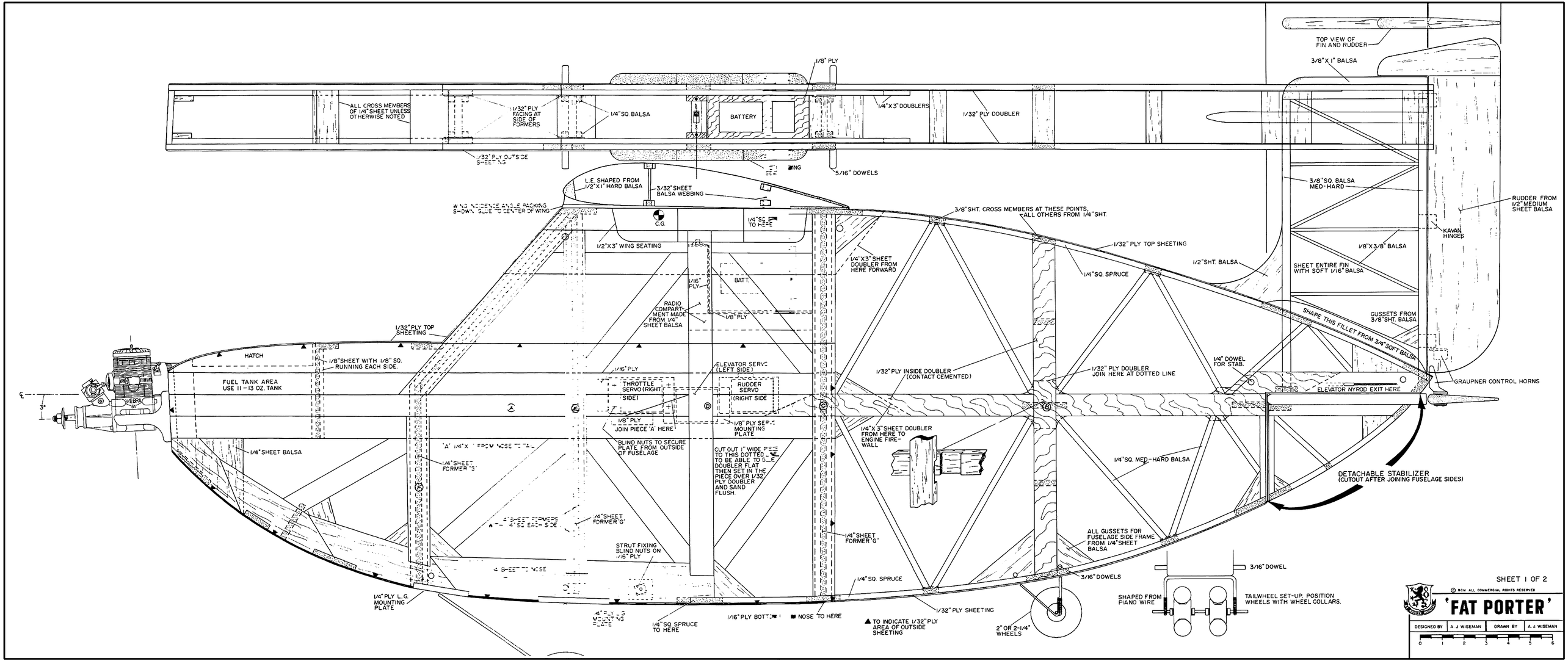
TOP VIEW OF FIN AND RUDDER
3/8"X1" BALSA
1/8" PLY
ALL CROSS MEMBERS OF 1/4" SHEET UNLESS OTHERWISE NOTED
1/32" PLY FACING AT SIDE OF FORMERS
1/4"SQ BALSA
BATTERY
1/4"X3" DOUBLERS
1/32" PLY DOUBLER
1/32" PLY OUTSIDE SHEETING
5/16" DOWELS
L.E. SHAPED FROM 1/2"X1" HARD BALSA
3/32" SHEET BALSA WEBBING
WING INCIDENCE ANGLE PACKING SHOWN. GLUE TO CENTER OF WING
C.G.
1/4"SQ. TO HERE
1/2"X3" WING SEATING
3/8" SHT. CROSS MEMBERS AT THESE POINTS, ALL OTHERS FROM 1/4" SHT.
1/32" PLY TOP SHEETING
1/4"X3" SHEET DOUBLER FROM HERE FORWARD
1/4"SQ. SPRUCE
1/2" SHT. BALSA
3/8"SQ. BALSA MED-HARD
RUDDER FROM 1/2" MEDIUM SHEET BALSA
KAVAN HINGES
1/8"X3/8" BALSA
SHEET ENTIRE FIN WITH SOFT 1/16" BALSA
GUSSETS FROM 3/8" SHT. BALSA
SHAPE THIS FILLET FROM 3/4" SOFT BALSA
1/16" PLY
BATT.
RADIO COMPARTMENT MADE FROM 1/4" SHEET BALSA
1/8" PLY
1/32" PLY TOP SHEETING
HATCH
1/8" SHEET WITH 1/8" SQ. RUNNING EACH SIDE.
FUEL TANK AREA USE 11-13 OZ. TANK
1/16" PLY
ELEVATOR SERVO (LEFT SIDE)
THROTTLE SERVO (RIGHT SIDE)
RUDDER SERVO (RIGHT SIDE)
1/8" PLY JOIN PIECE 'A' HERE
1/8" PLY SERVO MOUNTING PLATE
BLIND NUTS TO SECURE PLATE FROM OUTSIDE OF FUSELAGE
CUT OUT 1" WIDE PIECE TO THIS DOTTED LINE TO BE ABLE TO GLUE DOUBLER FLAT THEN SET IN THE PIECE OVER 1/32 PLY DOUBLER AND SAND FLUSH.
1/32" PLY INSIDE DOUBLER (CONTACT CEMENTED)
1/32" PLY DOUBLER JOIN HERE AT DOTTED LINE
1/4" DOWEL FOR STAB.
ELEVATOR PYROD EXIT HERE
GRAUPNER CONTROL HORNS
1/4"X3" SHEET DOUBLER FROM HERE TO ENGINE FIRE-WALL
1/4" SHEET BALSA
1/4" SHEET FORMER 'B'
1/4"SQ. MED-HARD BALSA
DETACHABLE STABILIZER (CUTOUT AFTER JOINING FUSELAGE SIDES)
1/4" SHEET FORMERS
1/4" SHEET FORMER 'G'
1/4" SHEET FORMER 'G'
STRUT FIXING BLIND NUTS ON 1/16" PLY
ALL GUSSETS FOR FUSELAGE SIDE FRAME FROM 1/4" SHEET BALSA
3/16" DOWEL
3/16" DOWELS
1/4" SQ. SPRUCE
1/4" PLY L.G. MOUNTING PLATE
1/4" SQ. SPRUCE TO HERE
1/16" PLY BOTTOM
NOSE TO HERE
TO INDICATE 1/32" PLY AREA OF OUTSIDE SHEETING
1/32" PLY SHEETING
2" OR 2-1/4" WHEELS
SHAPED FROM PIANO WIRE
TAILWHEEL SET-UP. POSITION WHEELS WITH WHEEL COLLARS.
SHEET 1 OF 2
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DESIGNED BY A J WISEMAN
DRAWN BY A J WISEMAN
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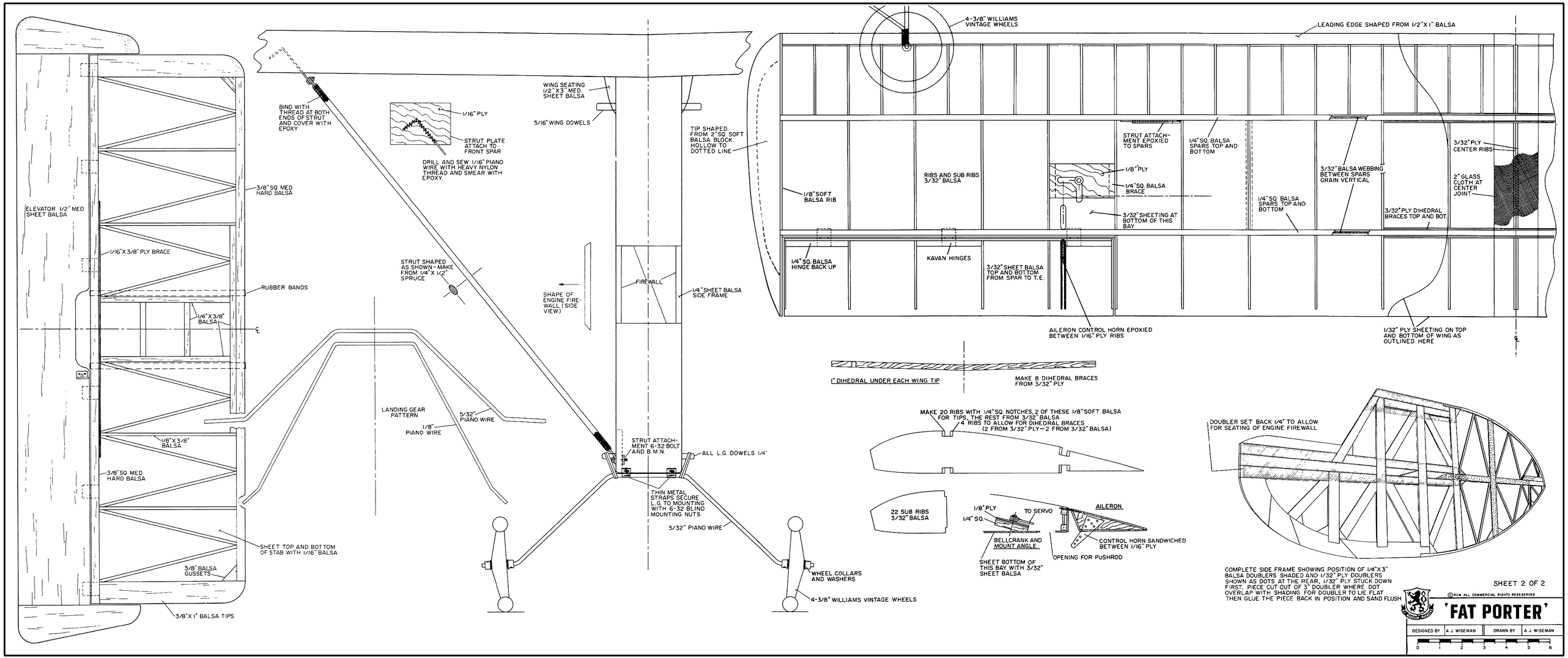
ELEVATOR 1/2" MED SHEET BALSA
3/8" SQ MED HARD BALSA
1/16"X 3/8" PLY BRACE
RUBBER BANDS
1/4"X 3/8" BALSA
1/8"X 3/8" BALSA
3/8" SQ MED HARD BALSA
SHEET TOP AND BOTTOM OF STAB WITH 1/16" BALSA
3/8" BALSA GUSSETS
3/8"X 1" BALSA TIPS
BIND WITH THREAD AT BOTH ENDS OF STRUT AND COVER WITH EPOXY
1/16" PLY
STRUT PLATE ATTACH TO FRONT SPAR
DRILL AND SEW 1/16" PIANO WIRE WITH HEAVY NYLON THREAD AND SMEAR WITH EPOXY.
STRUT SHAPED AS SHOWN-MAKE FROM 1/4"X 1/2" SPRUCE
LANDING GEAR PATTERN
5/32" PIANO WIRE
1/8" PIANO WIRE
WING SEATING 1/2"X3" MED SHEET BALSA
5/16" WING DOWELS
TIP SHAPED FROM 2" SQ. SOFT BALSA BLOCK. HOLLOW TO DOTTED LINE
SHAPE OF ENGINE FIRE-WALL (SIDE VIEW)
FIREWALL
1/4" SHEET BALSA SIDE FRAME
STRUT ATTACH-MENT 6-32 BOLT AND B.M.N.
ALL L.G. DOWELS 1/4"
THIN METAL STRAPS SECURE L.G. TO MOUNTING WITH 6-32 BLIND MOUNTING NUTS
5/32" PIANO WIRE
WHEEL COLLARS AND WASHERS
4-3/8" WILLIAMS VINTAGE WHEELS
4-3/8" WILLIAMS VINTAGE WHEELS
LEADING EDGE SHAPED FROM 1/2"X 1" BALSA
1/8" SOFT BALSA RIB
RIBS AND SUB RIBS 3/32" BALSA
STRUT ATTACH-MENT EPOXIED TO SPARS
1/4" SQ. BALSA SPARS TOP AND BOTTOM
1/8" PLY
1/4" SQ. BALSA BRACE
3/32" SHEETING AT BOTTOM OF THIS BAY
1/4" SQ. BALSA SPARS TOP AND BOTTOM
3/32" BALSA WEBBING BETWEEN SPARS GRAIN VERTICAL
3/32" PLY CENTER RIBS
2" GLASS CLOTH AT CENTER JOINT
3/32" PLY DIHEDRAL BRACES TOP AND BOT.
1/4" SQ. BALSA HINGE BACK UP
KAVAN HINGES
3/32" SHEET BALSA TOP AND BOTTOM FROM SPAR TO T.E.
AILERON CONTROL HORN EPOXIED BETWEEN 1/16" PLY RIBS
1/32" PLY SHEETING ON TOP AND BOTTOM OF WING AS OUTLINED HERE
1" DIHEDRAL UNDER EACH WING TIP
MAKE 8 DIHEDRAL BRACES FROM 3/32" PLY
MAKE 20 RIBS WITH 1/4" SQ. NOTCHES, 2 OF THESE 1/8" SOFT BALSA FOR TIPS, THE REST FROM 3/32" BALSA
4 RIBS TO ALLOW FOR DIHEDRAL BRACES (2 FROM 3/32" PLY-2 FROM 3/32" BALSA)
22 SUB RIBS 3/32" BALSA
1/8" PLY
1/4" SQ.
TO SERVO
BELLCRANK AND MOUNT ANGLE
SHEET BOTTOM OF THIS BAY WITH 3/32" SHEET BALSA
AILERON
CONTROL HORN SANDWICHED BETWEEN 1/16" PLY
OPENING FOR PUSHROD
DOUBLER SET BACK 1/4" TO ALLOW FOR SEATING OF ENGINE FIREWALL
COMPLETE SIDE FRAME SHOWING POSITION OF 1/4"X3" BALSA DOUBLERS SHADED AND 1/32" PLY DOUBLERS SHOWN AS DOTS AT THE REAR, 1/32" PLY STUCK DOWN FIRST. PIECE CUT OUT OF 3" DOUBLER WHERE DOT OVERLAP WITH SHADING FOR DOUBLER TO LIE FLAT THEN GLUE THE PIECE BACK IN POSITION AND SAND FLUSH.
SHEET 2 OF 2
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