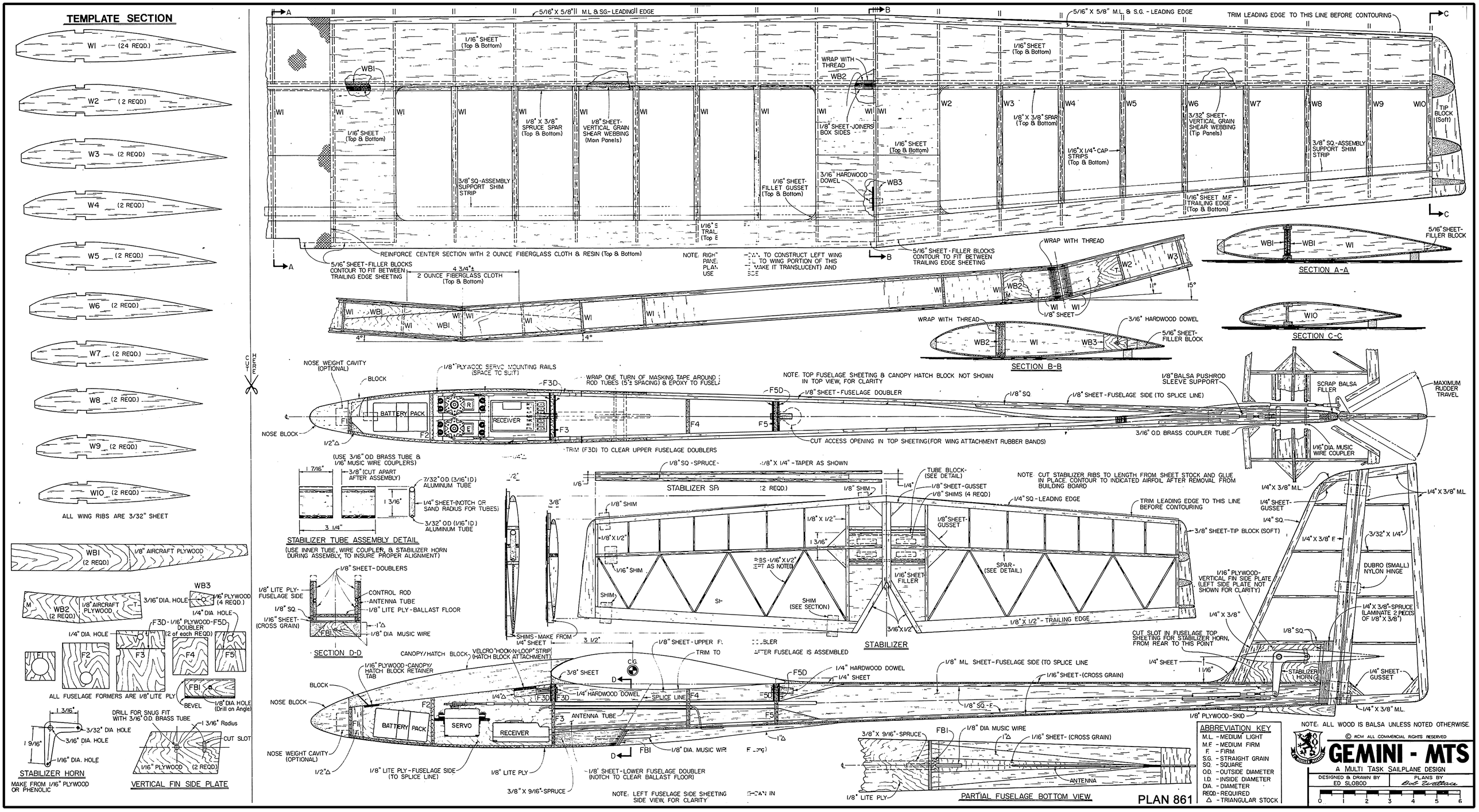
TEMPLATE SECTION
W1 (24 REQD.)
W2 (2 REQD.)
W3 (2 REQD.)
W4 (2 REQD.)
W5 (2 REQD.)
W6 (2 REQD.)
W7 (2 REQD.)
W8 (2 REQD.)
W9 (2 REQD.)
W10 (2 REQD.)
ALL WING RIBS ARE 3/32" SHEET
WB1 (2 REQD.) 1/8" AIRCRAFT PLYWOOD
WB2 (2 REQD.) 1/8" AIRCRAFT PLYWOOD
WB3
3/16" DIA. HOLE
1/16" PLYWOOD (4 REQD.)
1/4" DIA HOLE
F3D - 1/16" PLYWOOD - F5D DOUBLER (2 of each REQD)
1/4" DIA. HOLE
F1 F2 F3 F4 F5
ALL FUSELAGE FORMERS ARE 1/8" LITE PLY
FB1
BEVEL
1/8" DIA HOLE (Drill on Angle)
1 3/16"
3/32" DIA HOLE
3/16" DIA. HOLE
1 9/16"
1/16" DIA. HOLE
STABILIZER HORN
MAKE FROM 1/16" PLYWOOD OR PHENOLIC
DRILL FOR SNUG FIT WITH 3/16" O.D. BRASS TUBE
1 3/16" Radius
CUT SLOT
1/16" PLYWOOD (2 REQD.)
VERTICAL FIN SIDE PLATE
CUT HERE
5/16" X 5/8" M.L. & SG- LEADING EDGE
5/16" X 5/8" M.L. & S.G. - LEADING EDGE
TRIM LEADING EDGE TO THIS LINE BEFORE CONTOURING
1/16" SHEET (Top & Bottom)
WB1
WB2
WB3
WRAP WITH THREAD
1/8" X 3/8" SPRUCE SPAR (Top & Bottom)
1/8" SHEET-VERTICAL GRAIN SHEAR WEBBING (Main Panels)
1/8" SHEET-JOINERS BOX SIDES
1/8" X 3/8" SPAR (Top & Bottom)
1/16" X 1/4" CAP STRIPS (Top & Bottom)
3/32" SHEET-VERTICAL GRAIN SHEAR WEBBING (Tip Panels)
3/8" SQ.-ASSEMBLY SUPPORT SHIM STRIP
TIP BLOCK (Soft)
3/16" HARDWOOD DOWEL
1/16" SHEET-FILLET GUSSET (Top & Bottom)
1/16" SHEET M.F - TRAILING EDGE (Top & Bottom)
REINFORCE CENTER SECTION WITH 2 OUNCE FIBERGLASS CLOTH & RESIN (Top & Bottom)
5/16" SHEET-FILLER BLOCKS CONTOUR TO FIT BETWEEN TRAILING EDGE SHEETING
4 3/4"±
2 OUNCE FIBERGLASS CLOTH (Top & Bottom)
5/16" SHEET-FILLER BLOCKS CONTOUR TO FIT BETWEEN TRAILING EDGE SHEETING
5/16" SHEET-FILLER BLOCK
SECTION A-A
SECTION B-B
SECTION C-C
1/8" SHEET
3/16" HARDWOOD DOWEL
NOSE WEIGHT CAVITY (OPTIONAL)
BLOCK
1/8" PLYWOOD SERVO MOUNTING RAILS (SPACE TO SUIT)
F3D
WRAP ONE TURN OF MASKING TAPE AROUND ROD TUBES (5 1/4 SPACING) & EPOXY TO FUSEL
NOTE: TOP FUSELAGE SHEETING & CANOPY HATCH BLOCK NOT SHOWN IN TOP VIEW, FOR CLARITY
F5D
1/8" SHEET-FUSELAGE DOUBLER
1/8" SQ.
1/8" SHEET-FUSELAGE SIDE (TO SPLICE LINE)
1/8" BALSA PUSHROD SLEEVE SUPPORT
SCRAP BALSA FILLER
MAXIMUM RUDDER TRAVEL
BATTERY PACK
RECEIVER
F1 F2 F3 F4 F5
NOSE BLOCK
1/2"Δ
TRIM (F3D) TO CLEAR UPPER FUSELAGE DOUBLERS
CUT ACCESS OPENING IN TOP SHEETING (FOR WING ATTACHMENT RUBBER BANDS)
3/16" O.D. BRASS COUPLER TUBE
1/16" DIA. MUSIC WIRE COUPLER
(USE 3/16" OD BRASS TUBE & 1/16" MUSIC WIRE COUPLERS)
7 1/16"
3/8" (CUT APART AFTER ASSEMBLY)
7/32" O.D. (3/16" I.D.) ALUMINUM TUBE
1 3/16"
1/4" SHEET-(NOTCH OR SAND RADIUS FOR TUBES)
3/32" O.D. (1/16" I.D.) ALUMINUM TUBE
3 1/4"
STABILIZER TUBE ASSEMBLY DETAIL
(USE INNER TUBE, WIRE COUPLER, & STABILIZER HORN DURING ASSEMBLY, TO INSURE PROPER ALIGNMENT)
1/8" SQ.-SPRUCE
1/8" X 1/4" - TAPER AS SHOWN
TUBE BLOCK- (SEE DETAIL)
1/8" SHEET-GUSSET
1/8" SHIMS (4 REQD)
NOTE: CUT STABILIZER RIBS TO LENGTH FROM SHEET STOCK AND GLUE IN PLACE CONTOUR TO INDICATED AIRFOIL AFTER REMOVAL FROM BUILDING BOARD
1/4" SQ.-LEADING EDGE
TRIM LEADING EDGE TO THIS LINE BEFORE CONTOURING
1/4" SHEET-GUSSET
1/4" SQ.
1/4" X 3/8" M.L.
1/4" X 3/8" ML
3/8" SHEET-TIP BLOCK (SOFT)
1/4" X 3/8" F
3/32" X 1/4"
DUBRO (SMALL) NYLON HINGE
1/8" X 1/2"
1/8" SHIM
1/16" SHEET FILLER
SPAR- (SEE DETAIL)
SHIM (SEE SECTION)
3/16" X 1/2"
1/8" X 1/2" - TRAILING EDGE
1/16" PLYWOOD- VERTICAL FIN SIDE PLATE (LEFT SIDE PLATE NOT SHOWN FOR CLARITY)
1/4" X 3/8"-SPRUCE (LAMINATE 2 PIECES OF 1/8" X 3/8")
CUT SLOT IN FUSELAGE TOP SHEETING FOR STABILIZER HORN, FROM REAR TO THIS POINT
1/4" SHEET
1 1/16"
STABILIZER HORN
1/4" SHEET-GUSSET
1/4" X 3/8" M.L.
1/8" PLYWOOD-SKID
STABILIZER
SHIMS-MAKE FROM 1/4" SHEET
3 1/2"
1/8" SHEET-DOUBLERS
1/8" LITE PLY-FUSELAGE SIDE
CONTROL ROD
ANTENNA TUBE
1/8" SQ.
1/8" LITE PLY-BALLAST FLOOR
1/16" SHEET- (CROSS GRAIN)
1"Δ
FB1
1/8" DIA MUSIC WIRE
SECTION D-D
CANOPY/HATCH BLOCK
VELCRO "HOOK-N-LOOP" STRIP (HATCH BLOCK ATTACHMENT)
1/16" PLYWOOD-CANOPY/ HATCH BLOCK RETAINER TAB
3/8" SHEET
CG
1/4" HARDWOOD DOWEL
SPLICE LINE
ANTENNA TUBE
SERVO
1/4"Δ
1/8" SHEET-UPPER F
TRIM TO
1/4" HARDWOOD DOWEL
1/4" SHEET
1/8" ML SHEET-FUSELAGE SIDE (TO SPLICE LINE)
1/16" SHEET-(CROSS GRAIN)
1/8" SQ.-F
NOSE WEIGHT CAVITY (OPTIONAL)
1/8" LITE PLY-FUSELAGE SIDE (TO SPLICE LINE)
1/8" LITE PLY
1/8" SHEET-LOWER FUSELAGE DOUBLER (NOTCH TO CLEAR BALLAST FLOOR)
3/8" X 9/16"-SPRUCE
NOTE: LEFT FUSELAGE SIDE SHEETING SHOWN IN SIDE VIEW, FOR CLARITY
3/8" X 9/16"-SPRUCE
FB1
1/8" DIA. MUSIC WIRE
1"Δ
1/16" SHEET- (CROSS GRAIN)
ANTENNA
1/8" LITE PLY
PARTIAL FUSELAGE BOTTOM VIEW
ABBREVIATION KEY
M.L. - MEDIUM LIGHT
M.F - MEDIUM FIRM
F. - FIRM
S.G. - STRAIGHT GRAIN
SQ. - SQUARE
O.D. - OUTSIDE DIAMETER
I.D. - INSIDE DIAMETER
DIA. - DIAMETER
REQD - REQUIRED
Δ - TRIANGULAR STOCK
NOTE: ALL WOOD IS BALSA UNLESS NOTED OTHERWISE
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GEMINI - MTS
A MULTI TASK SAILPLANE DESIGN
DESIGNED & DRAWN BY ED SLOBOD
PLANS BY Bob Wallace
PLAN 861
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