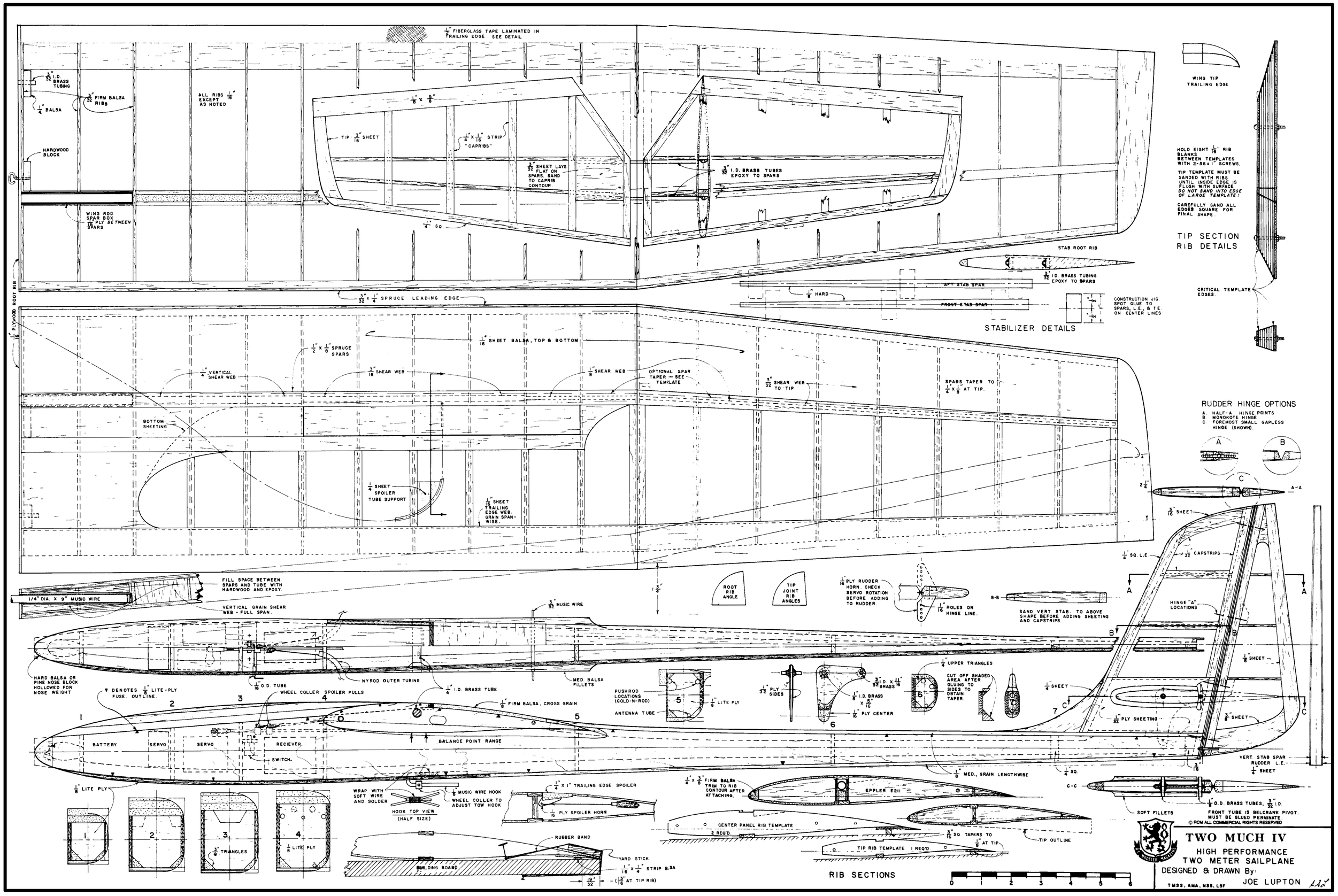
1/8" FIBERGLASS TAPE LAMINATED IN TRAILING EDGE SEE DETAIL
3/32" I.D. BRASS TUBING
3/32" FIRM BALSA RIBS
1/4" BALSA
ALL RIBS 1/16" EXCEPT AS NOTED
1/8" x 3/8"
TIP 3/16" SHEET
1/4" x 1/16" STRIP "CAPRIBS"
3/32" SHEET LAYS FLAT ON SPARS SAND TO CAPRIB CONTOUR
3/32" I.D. BRASS TUBES EPOXY TO SPARS
HARDWOOD BLOCK
WING ROD SPAR BOX 1/16 PLY BETWEEN SPARS
1/4" SQ
1/16" PLYWOOD ROOT RIB
3/32" x 1/4" SPRUCE LEADING EDGE
WING TIP TRAILING EDGE
HOLD EIGHT 1/16" RIB BLANKS BETWEEN TEMPLATES WITH 2-56 x 1" SCREWS.
TIP TEMPLATE MUST BE SANDED WITH RIBS UNTIL INSIDE EDGE IS FLUSH WITH SURFACE. DO NOT SAND INTO EDGE OF LARGE TEMPLATE!
CAREFULLY SAND ALL EDGES SQUARE FOR FINAL SHAPE.
TIP SECTION RIB DETAILS
CRITICAL TEMPLATE EDGES.
STAB ROOT RIB
3/32" I.D. BRASS TUBING EPOXY TO SPARS
APT STAB SPAR
1/8" HARD
FRONT STAB SPAR
CONSTRUCTION JIG SPOT GLUE TO SPARS, L.E., & T.E. ON CENTER LINES
STABILIZER DETAILS
1/16" SHEET BALSA, TOP & BOTTOM
1/2" x 1/8" SPRUCE SPARS
1/4" VERTICAL SHEAR WEB
3/16" SHEAR WEB
1/8" SHEAR WEB
OPTIONAL SPAR TAPER — SEE TEMPLATE
3/32" SHEAR WEB TO TIP
SPARS TAPER TO 1/4" x 1/8" AT TIP.
BOTTOM SHEETING
1/4" SHEET SPOILER TUBE SUPPORT
1/16" SHEET TRAILING EDGE WEB. GRAIN SPAN-WISE.
RUDDER HINGE OPTIONS
A. HALF-A HINGE POINTS
B. MONOKOTE HINGE
C. FOREMOST SMALL GAPLESS HINGE (SHOWN).
A
B
C
A-A
2 1/4"
3/16" SHEET
1/4" SQ. L.E.
3/32" CAPSTRIPS
FILL SPACE BETWEEN SPARS AND TUBE WITH HARDWOOD AND EPOXY.
1/4" DIA. X 9" MUSIC WIRE
VERTICAL GRAIN SHEAR WEB - FULL SPAN.
3/32" MUSIC WIRE
ROOT RIB ANGLE
TIP JOINT RIB ANGLES
1/16" PLY RUDDER HORN. CHECK SERVO ROTATION BEFORE ADDING TO RUDDER.
1/16" HOLES ON HINGE LINE.
B-B
SAND VERT. STAB. TO ABOVE SHAPE BEFORE ADDING SHEETING AND CAPSTRIPS.
HINGE "A" LOCATIONS
HARD BALSA OR PINE NOSE BLOCK HOLLOWED FOR NOSE WEIGHT
1/16" O.D. TUBE
NYROD OUTER TUBING
MED. BALSA FILLETS
▼ DENOTES 1/8" LITE-PLY FUSE. OUTLINE.
WHEEL COLLER SPOILER PULLS
1/4" I.D. BRASS TUBE
1/8" FIRM BALSA, CROSS GRAIN
PUSHROD LOCATIONS (GOLD-N-ROD)
ANTENNA TUBE
1/8" LITE PLY
1/32" PLY SIDES
3/32" I.D. x 11/16" BRASS
1/8" I.D. BRASS x 5/16
1/16" PLY CENTER
1/4" UPPER TRIANGLES
CUT OFF SHADED AREA AFTER GLUING TO SIDES TO OBTAIN TAPER.
1/4" SHEET
1/32" PLY SHEETING
3/8" SHEET
1/8" SHEET
BATTERY
SERVO
SERVO
RECIEVER
SWITCH.
BALANCE POINT RANGE
1/8" MED., GRAIN LENGTHWISE
1/4" SQ.
VERT STAB SPAR
RUDDER L.E.
1/4" SHEET
1/8" LITE PLY
WRAP WITH SOFT WIRE AND SOLDER
1/8" MUSIC WIRE HOOK
WHEEL COLLER TO ADJUST TOW HOOK
HOOK TOP VIEW (HALF SIZE)
1/4" x 1" TRAILING EDGE SPOILER
1/16" PLY SPOILER HORN
1/4" x 3/8" FIRM BALSA TRIM TO RIB CONTOUR AFTER AT TACHING.
EPPLER E211
C-C
SOFT FILLETS
1/8" O.D. BRASS TUBES, 3/32" I.D.
FRONT TUBE IS BELCRANK PIVOT. MUST BE GLUED PERMINATE.
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3/8" TRIANGLES
1/8" LITE PLY
RUBBER BAND
YARD STICK
BUILDING BOARD
1/16" x 1/4" STRIP BASA
19/32" - (13/16" AT TIP RIB)
RIB SECTIONS
CENTER PANEL RIB TEMPLATE 2 REQ'D
TIP RIB TEMPLATE 1 REQ'D
3/16" SQ. TAPERS TO 1/8" AT TIP
TIP OUTLINE
0 1 2 3 4 5 6
TWO MUCH IV
HIGH PERFORMANCE TWO METER SAILPLANE
DESIGNED & DRAWN By:
JOE LUPTON
TMSS, AMA, NSS, LSF