CENTER SECTION NOTES:

DO NOT GLUE C.S. RIBS TO WING FRAMES UNTIL JOINING WING HALVES. DIHEDRAL BRACES ARE CEMENTED IN PLACE, THEN BOTH RIBS ARE CUT AWAY TO CLEAR BRACES. REMOVE 1/16" OFF OF TOP & BOTTOM OF RIBS TO BE PLANKED.

THE ROY D. MEYERS AIRFOIL - WIMPY'S SECRET TO SUCCESS

WING RIB - MAKE 24 FROM 1/8" MED. HARD SHEET BALSA

WING TIP NOTES:

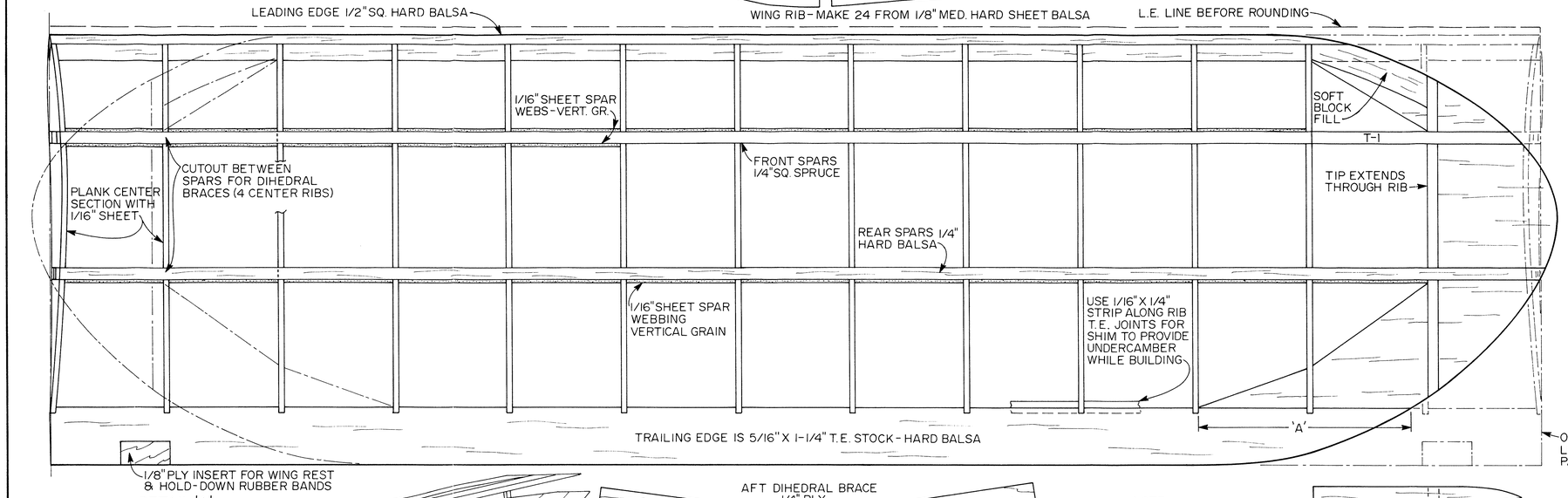
1. GLUE 1/4" (MED.) SHEETS OF BALSA TOGETHER ON FLAT SURFACE, THEN CUTOUT COMPLETE TIP. GLUE T-1 ONTO SPAR END & LET DRY.
2. FIT TIP THROUGH SLOT IN T-1 & GLUE T.E. OF TIP TO T.E. OF WING (ALONG LINE 'A'), FLUSH WITH BOTTOM OF T.E. OF WING.
3. BEND DOWN L.E. OF TIP & BEVEL TO FIT L.E. OF WING. BEVEL AFT SPARS, FAIRING INTO TIP. TOP AFT SPAR DOES NOT BEND DOWN TO MEET TIP; TIP BENDS UP TO MEET SPAR. THIS PRODUCES A CANTED & UNDERCAMBERED TIP.
4. BUILD TIP RIB FROM 1/4" SHEET & CARVE TO MATCH AIRFOIL.

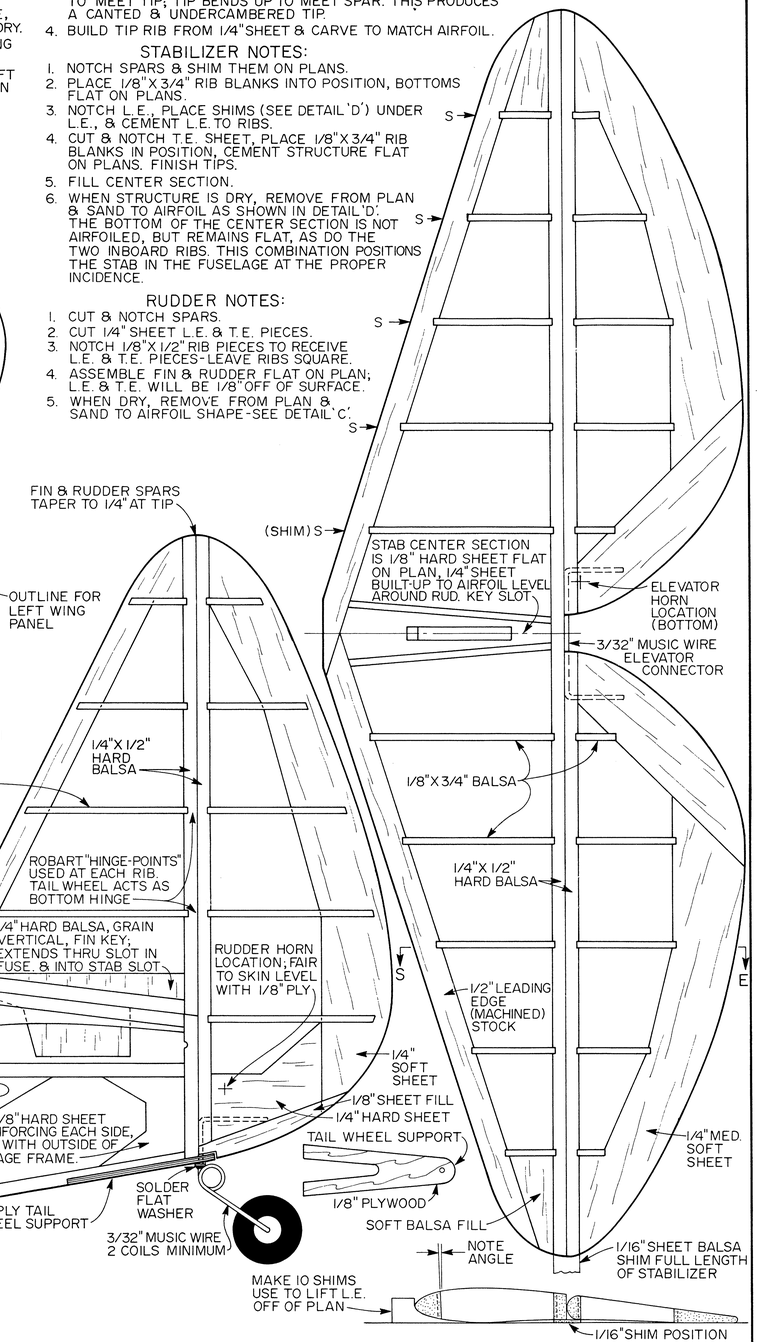
STABILIZER NOTES:

1. NOTCH SPARS & SHIM THEM ON PLANS.
2. PLACE 1/8" X 3/4" RIB BLANKS INTO POSITION, BOTTOMS FLAT ON PLANS.
3. NOTCH L.E., PLACE SHIMS (SEE DETAIL 'D') UNDER L.E., & CEMENT L.E. TO RIBS.
4. CUT & NOTCH T.E. SHEET, PLACE 1/8" X 3/4" RIB BLANKS IN POSITION, CEMENT STRUCTURE FLAT ON PLANS. FINISH TIPS.
5. FILL CENTER SECTION.
6. WHEN STRUCTURE IS DRY, REMOVE FROM PLAN & SAND TO AIRFOIL AS SHOWN IN DETAIL 'D'. THE BOTTOM OF THE CENTER SECTION IS NOT AIRFOILED, BUT REMAINS FLAT, AS DO THE TWO INBOARD RIBS. THIS COMBINATION POSITIONS THE STAB IN THE FUSELAGE AT THE PROPER INCIDENCE.

RUDDER NOTES:

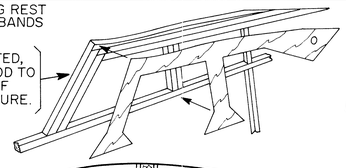
1. CUT & NOTCH SPARS.
2. CUT 1/4" SHEET L.E. & T.E. PIECES.
3. NOTCH 1/8" X 1/2" RIB PIECES TO RECEIVE L.E. & T.E. PIECES - LEAVE RIBS SQUARE.
4. ASSEMBLE FIN & RUDDER FLAT ON PLAN; L.E. & T.E. WILL BE 1/8" OFF OF SURFACE.
5. WHEN DRY, REMOVE FROM PLAN & SAND TO AIRFOIL SHAPE - SEE DETAIL 'C'.





DETAIL 'A'

AFTER FUSELAGE FRAMES ARE COMPLETED, TRACE WINDOW OUTLINE ON 1/32" PLYWOOD TO SHAPE SHOWN THEN EPOXY TO INSIDE OF FRAMES TO STRENGTHEN CABIN STRUCTURE.



AFT DIHEDRAL BRACE 1/4" PLY

FORWARD DIHEDRA BRACE - 1/4" PLY DIHEDRAL = 5" EACH TIP

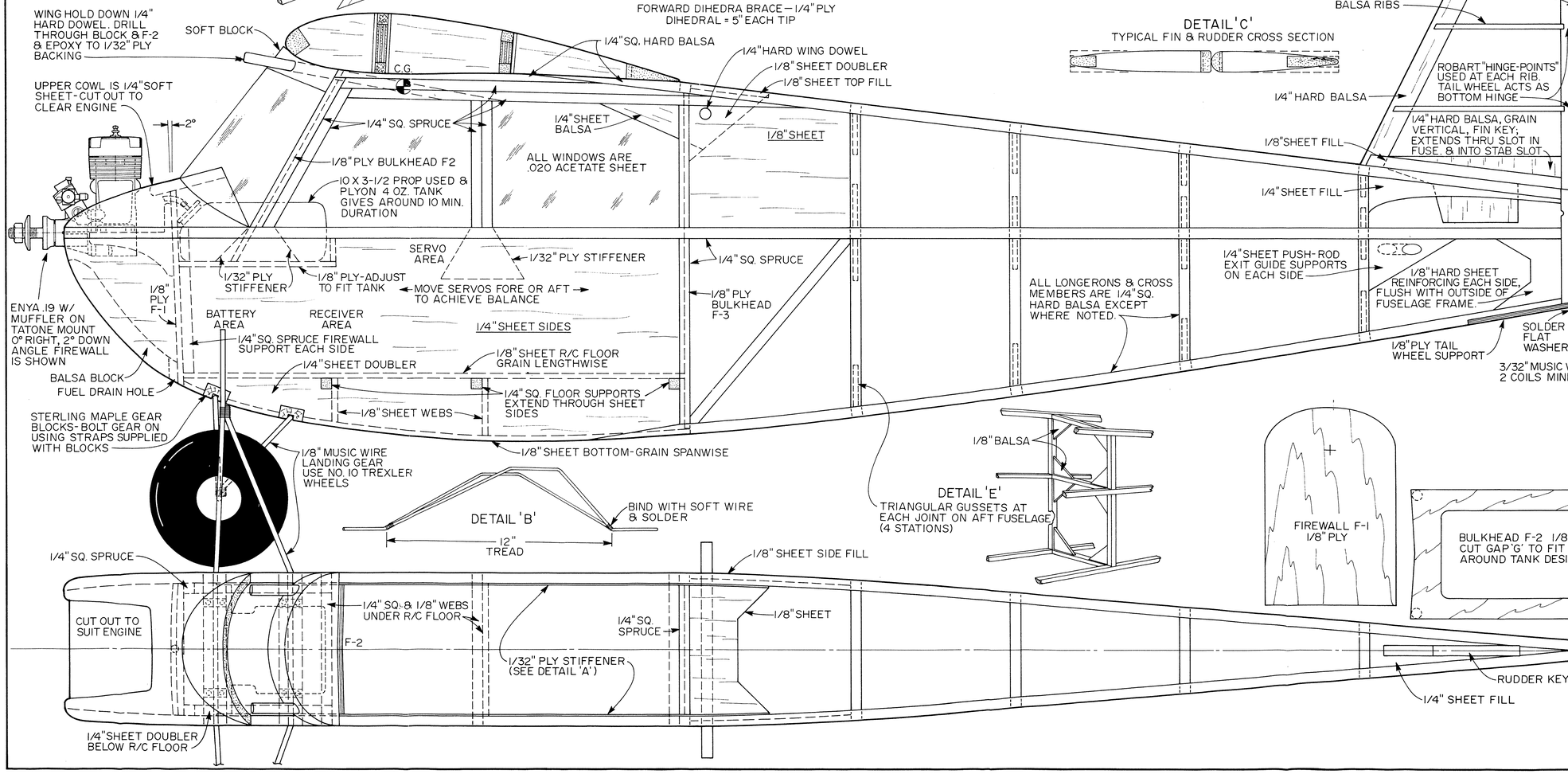
NOTE:
AFTER WING FRAME IS COMPLETED, CHECK STATIC BALANCE ADDING WEIGHT IF NECESSARY.

T-1 MAKE 2, 1/4" HARD BALSA

TIP RIB LOCATION

DETAIL 'C'

TYPICAL FIN & RUDDER CROSS SECTION



DETAIL 'B'

DETAIL 'E'

DETAIL 'D'

TYPICAL STABILIZER SECTION (S-E)

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Whimpy

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PLAN NO. 585