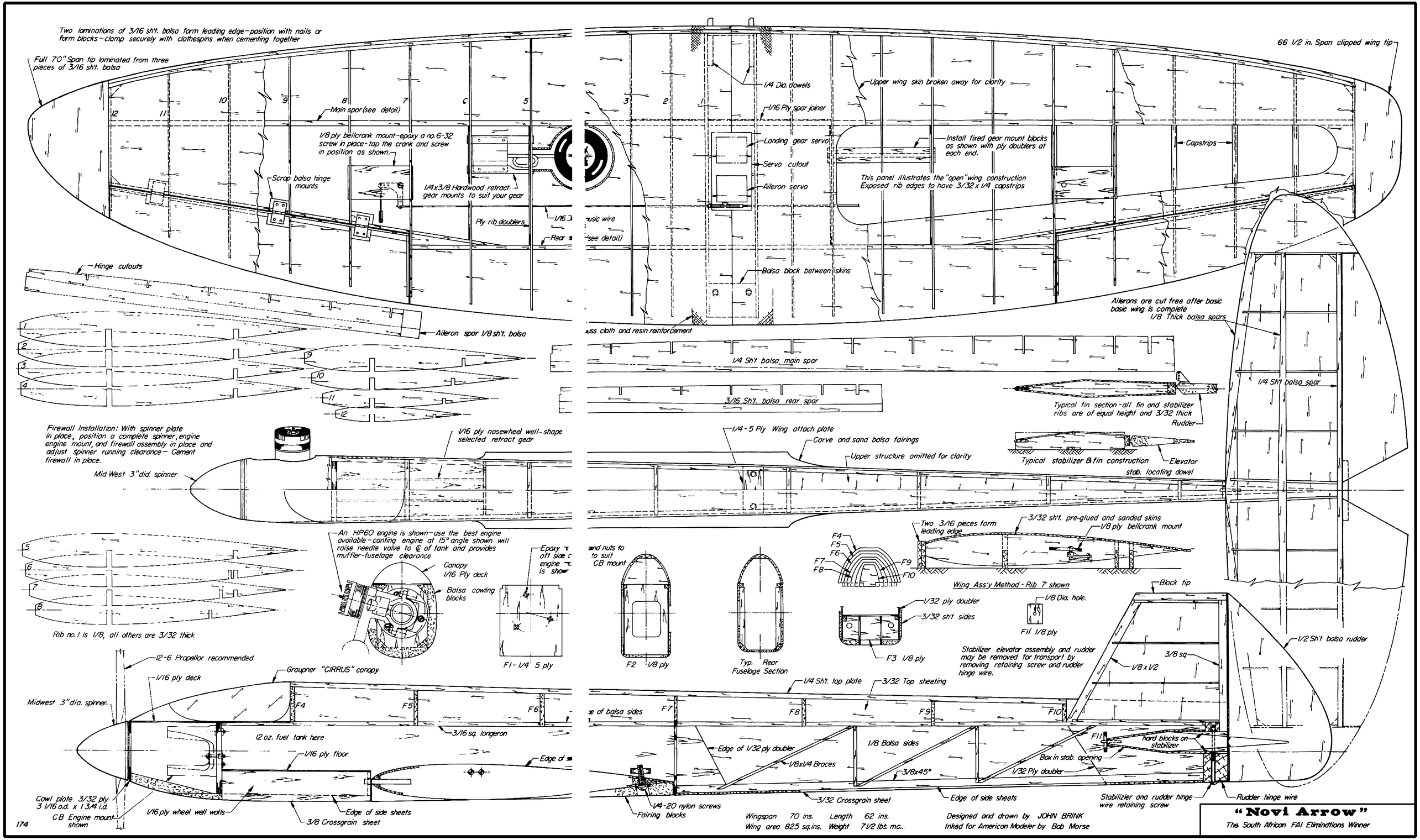
Two laminations of 3/16 sh't. balsa form leading edge-position with nails or form blocks-clamp securely with clothespins when cementing together
Full 70" Span tip laminated from three pieces of 3/16 sh't. balsa
Main spar (see detail)
1/8 ply bellcrank mount-epoxy a no. 6-32 screw in place-tap the crank and screw in position as shown.
Scrap balsa hinge mounts
1/4 x 3/8 Hardwood retract gear mounts to suit your gear
Ply rib doublers
Hinge cutouts
Aileron spar 1/8 sh't. balsa
1/4 Dia. dowels
1/16 Ply spar joiner
Landing gear servo
Servo cutout
Aileron servo
Upper wing skin broken away for clarity
Install fixed gear mount blocks as shown with ply doublers at each end.
This panel illustrates the "open" wing construction
Exposed rib edges to have 3/32 x 1/4 capstrips
Capstrips
66 1/2 in. Span clipped wing tip
Balsa block between skins
1/4 Sh't balsa main spar
3/16 Sh't. balsa rear spar
Ailerons are cut free after basic basic wing is complete
1/8 Thick balsa spars
1/4 Sh't balsa spar
Typical fin section-all fin and stabilizer ribs are of equal height and 3/32 thick
Rudder
Typical stabilizer & fin construction
Elevator
stab. locating dowel
Firewall Installation: With spinner plate in place, position a complete spinner, engine engine mount, and firewall assembly in place and adjust spinner running clearance - Cement firewall in place.
Mid West 3" dia. spinner
1/16 ply nosewheel well-shape selected retract gear
1/4-5 Ply Wing attach plate
Carve and sand balsa fairings
Upper structure omitted for clarity
Rib no. 1 is 1/8, all others are 3/32 thick
An HP60 engine is shown-use the best engine available-canting engine at 15° angle shown will raise needle valve to ℄ of tank and provides muffler-fuselage clearance
Canopy
1/16 Ply deck
Balsa cowling blocks
F1-1/4" 5 ply
F2 1/8 ply
Typ. Rear Fuselage Section
F3 1/8 ply
Two 3/16 pieces form leading edge
3/32 sh't. pre-glued and sanded skins
1/8 ply bellcrank mount
Wing Ass'y Method - Rib 7 shown
1/32 ply doubler
3/32 sh't sides
1/8 Dia. hole.
F11 1/8 ply
Block tip
Stabilizer elevator assembly and rudder may be removed for transport by removing retaining screw and rudder hinge wire.
1/2 Sh't balsa rudder
3/8 sq
1/8 x 1/2
12-6 Propellor recommended
1/16 ply deck
Graupner "CIRRUS" canopy
Midwest 3" dia. spinner
12 oz. fuel tank here
3/16 sq. longeron
1/16 ply floor
Edge of side sheets
Cowl plate 3/32 ply 3 1/16 o.d. x 1 3/4 i.d.
CB Engine mount shown
1/16 ply wheel well walls
3/8 Crossgrain sheet
1/4 Sh't. top plate
3/32 Top sheeting
Edge of 1/32 ply doubler
1/8 x 1/4 Braces
1/8 Balsa sides
3/8 x 45°
1/32 Ply doubler
Box in stab. opening
hard blocks on stabilizer
Stabilizer and rudder hinge wire retaining screw
Rudder hinge wire
1/4-20 nylon screws
Fairing blocks
3/32 Crossgrain sheet
Wingspan 70 ins. Length 62 ins.
Wing area 825 sq.ins. Weight 7 1/2 lbs. mc..
Designed and drawn by JOHN BRINK
Inked for American Modeler by Bob Morse
"Novi Arrow"
The South African FAI Eliminations Winner