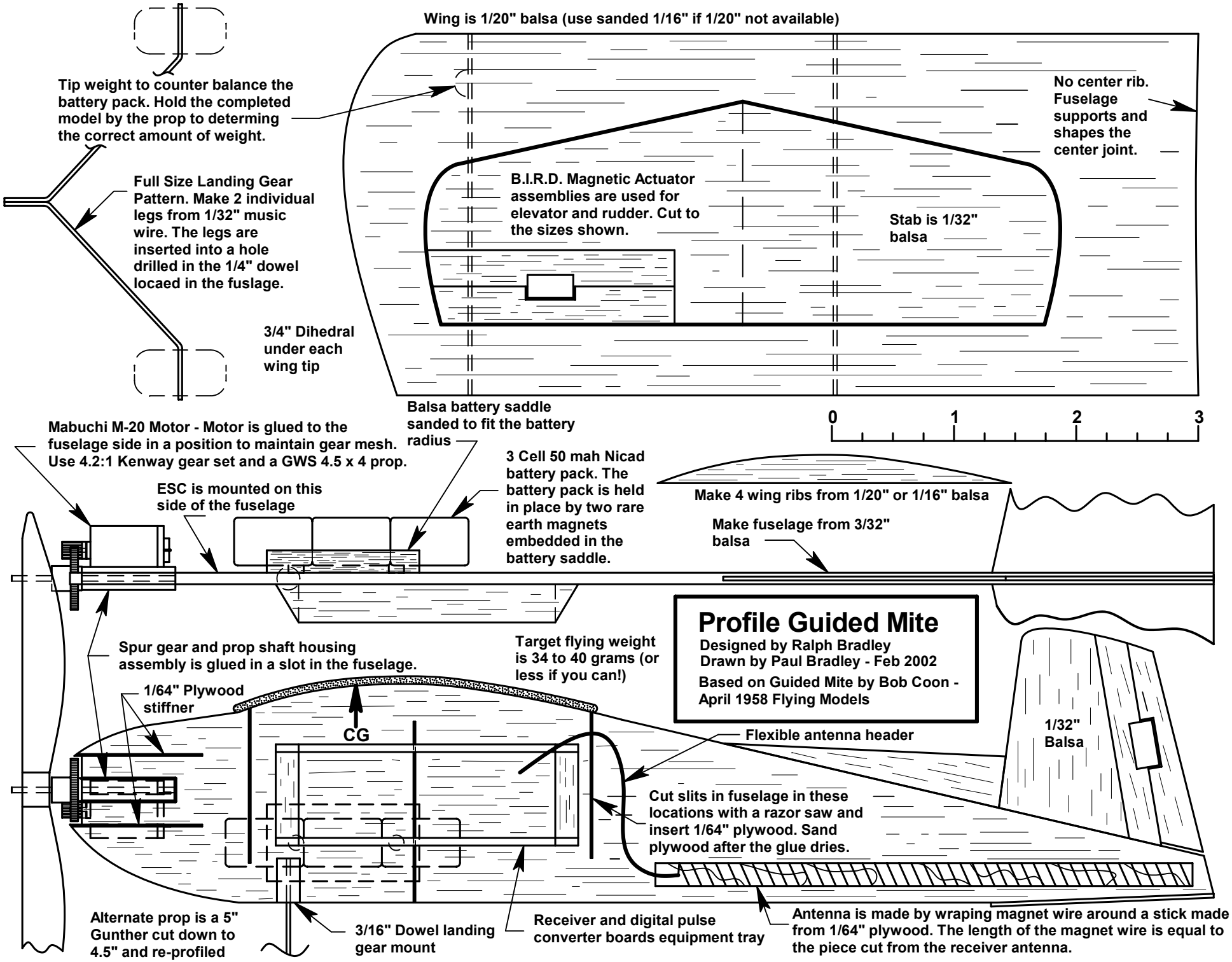
Wing is 1/20" balsa (use sanded 1/16" if 1/20" not available)
Tip weight to counter balance the battery pack. Hold the completed model by the prop to determing the correct amount of weight.
No center rib. Fuselage supports and shapes the center joint.
Full Size Landing Gear Pattern. Make 2 individual legs from 1/32" music wire. The legs are inserted into a hole drilled in the 1/4" dowel locaed in the fuslage.
B.I.R.D. Magnetic Actuator assemblies are used for elevator and rudder. Cut to the sizes shown.
Stab is 1/32" balsa
3/4" Dihedral under each wing tip
0
1
2
3
Balsa battery saddle sanded to fit the battery radius
Mabuchi M-20 Motor - Motor is glued to the fuselage side in a position to maintain gear mesh. Use 4.2:1 Kenway gear set and a GWS 4.5 x 4 prop.
3 Cell 50 mah Nicad battery pack. The battery pack is held in place by two rare earth magnets embedded in the battery saddle.
ESC is mounted on this side of the fuselage
Make 4 wing ribs from 1/20" or 1/16" balsa
Make fuselage from 3/32" balsa
Profile Guided Mite
Designed by Ralph Bradley
Drawn by Paul Bradley - Feb 2002
Based on Guided Mite by Bob Coon - April 1958 Flying Models
Spur gear and prop shaft housing assembly is glued in a slot in the fuselage.
Target flying weight is 34 to 40 grams (or less if you can!)
1/64" Plywood stiffner
CG
Flexible antenna header
1/32" Balsa
Cut slits in fuselage in these locations with a razor saw and insert 1/64" plywood. Sand plywood after the glue dries.
Alternate prop is a 5" Gunther cut down to 4.5" and re-profiled
3/16" Dowel landing gear mount
Receiver and digital pulse converter boards equipment tray
Antenna is made by wraping magnet wire around a stick made from 1/64" plywood. The length of the magnet wire is equal to the piece cut from the receiver antenna.