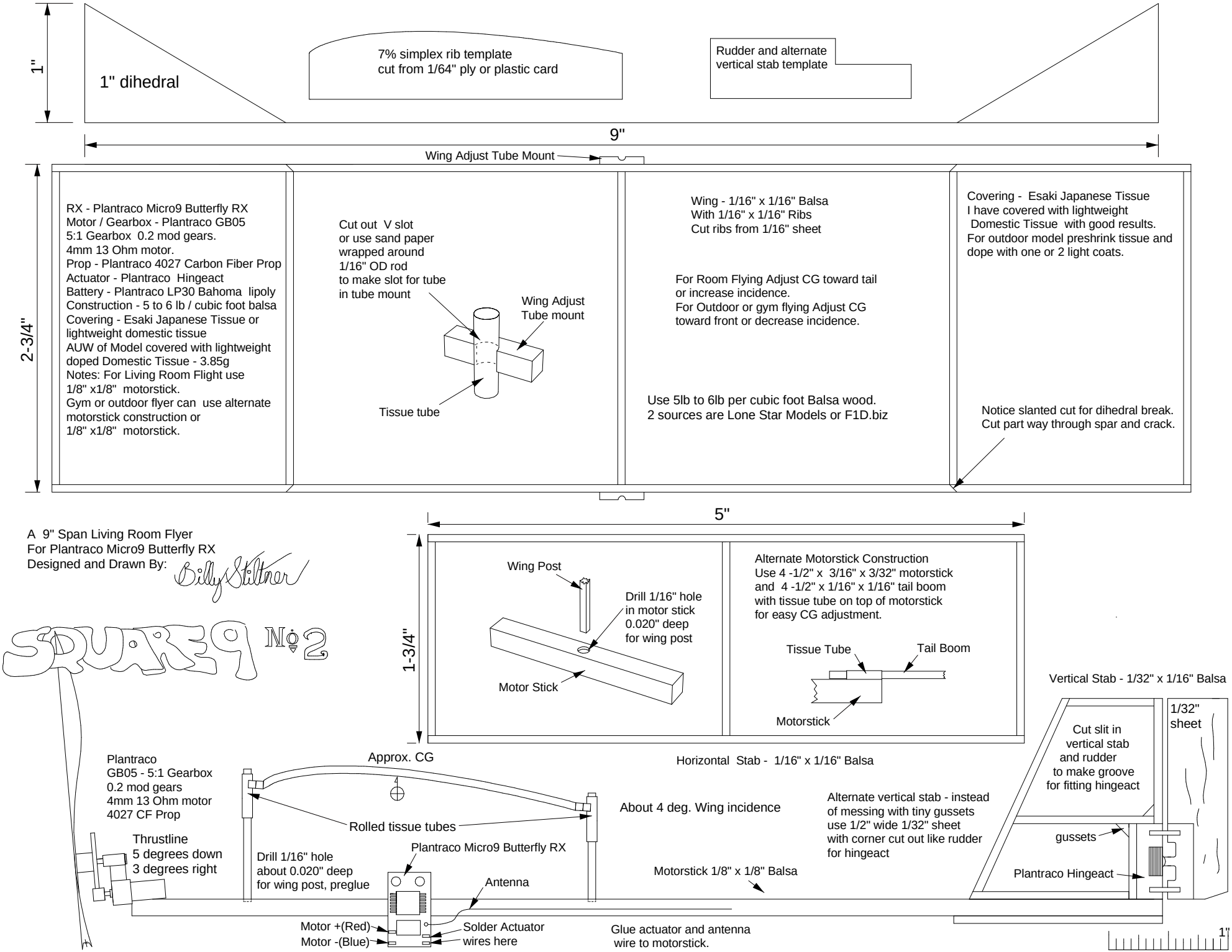
1"
1" dihedral
7% simplex rib template
cut from 1/64" ply or plastic card
Rudder and alternate
vertical stab template
9"
Wing Adjust Tube Mount
2-3/4"
RX - Plantraco Micro9 Butterfly RX
Motor / Gearbox - Plantraco GB05
5:1 Gearbox 0.2 mod gears.
4mm 13 Ohm motor.
Prop - Plantraco 4027 Carbon Fiber Prop
Actuator - Plantraco Hingeact
Battery - Plantraco LP30 Bahoma lipoly
Construction - 5 to 6 lb / cubic foot balsa
Covering - Esaki Japanese Tissue or
lightweight domestic tissue
AUW of Model covered with lightweight
doped Domestic Tissue - 3.85g
Notes: For Living Room Flight use
1/8" x1/8" motorstick.
Gym or outdoor flyer can use alternate
motorstick construction or
1/8" x1/8" motorstick.
Cut out V slot
or use sand paper
wrapped around
1/16" OD rod
to make slot for tube
in tube mount
Wing Adjust
Tube mount
Tissue tube
Wing - 1/16" x 1/16" Balsa
With 1/16" x 1/16" Ribs
Cut ribs from 1/16" sheet
For Room Flying Adjust CG toward tail
or increase incidence.
For Outdoor or gym flying Adjust CG
toward front or decrease incidence.
Use 5lb to 6lb per cubic foot Balsa wood.
2 sources are Lone Star Models or F1D.biz
Covering - Esaki Japanese Tissue
I have covered with lightweight
Domestic Tissue with good results.
For outdoor model preshrink tissue and
dope with one or 2 light coats.
Notice slanted cut for dihedral break.
Cut part way through spar and crack.
5"
1-3/4"
Wing Post
Drill 1/16" hole
in motor stick
0.020" deep
for wing post
Motor Stick
Alternate Motorstick Construction
Use 4 -1/2" x 3/16" x 3/32" motorstick
and 4 -1/2" x 1/16" x 1/16" tail boom
with tissue tube on top of motorstick
for easy CG adjustment.
Tissue Tube
Tail Boom
Motorstick
Horizontal Stab - 1/16" x 1/16" Balsa
Vertical Stab - 1/32" x 1/16" Balsa
1/32"
sheet
Cut slit in
vertical stab
and rudder
to make groove
for fitting hingeact
gussets
Plantraco Hingeact
Alternate vertical stab - instead
of messing with tiny gussets
use 1/2" wide 1/32" sheet
with corner cut out like rudder
for hingeact
A 9" Span Living Room Flyer
For Plantraco Micro9 Butterfly RX
Designed and Drawn By:
Billy Stiltner
SQUARE9 №2
Plantraco
GB05 - 5:1 Gearbox
0.2 mod gears
4mm 13 Ohm motor
4027 CF Prop
Thrustline
5 degrees down
3 degrees right
Approx. CG
Rolled tissue tubes
About 4 deg. Wing incidence
Drill 1/16" hole
about 0.020" deep
for wing post, preglue
Plantraco Micro9 Butterfly RX
Antenna
Motorstick 1/8" x 1/8" Balsa
Motor +(Red)
Motor -(Blue)
Solder Actuator
wires here
Glue actuator and antenna
wire to motorstick.
1"