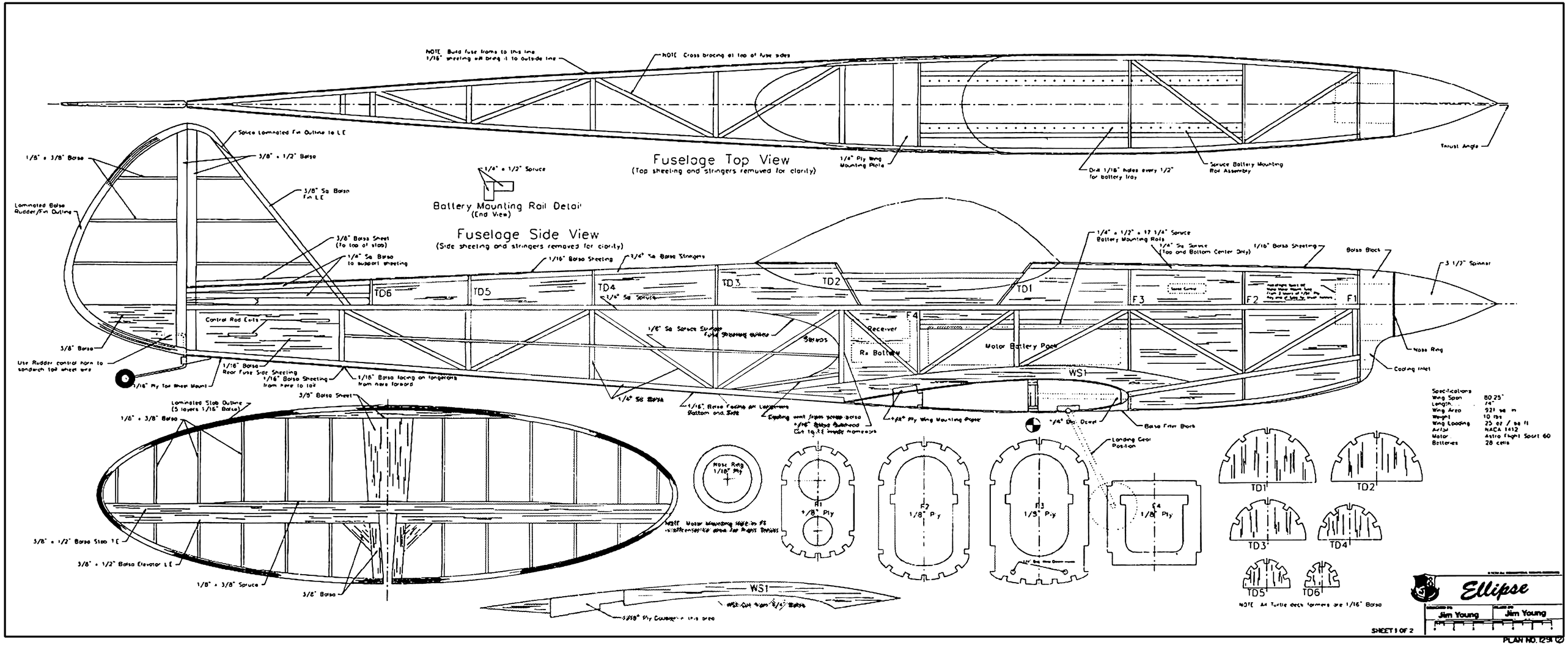
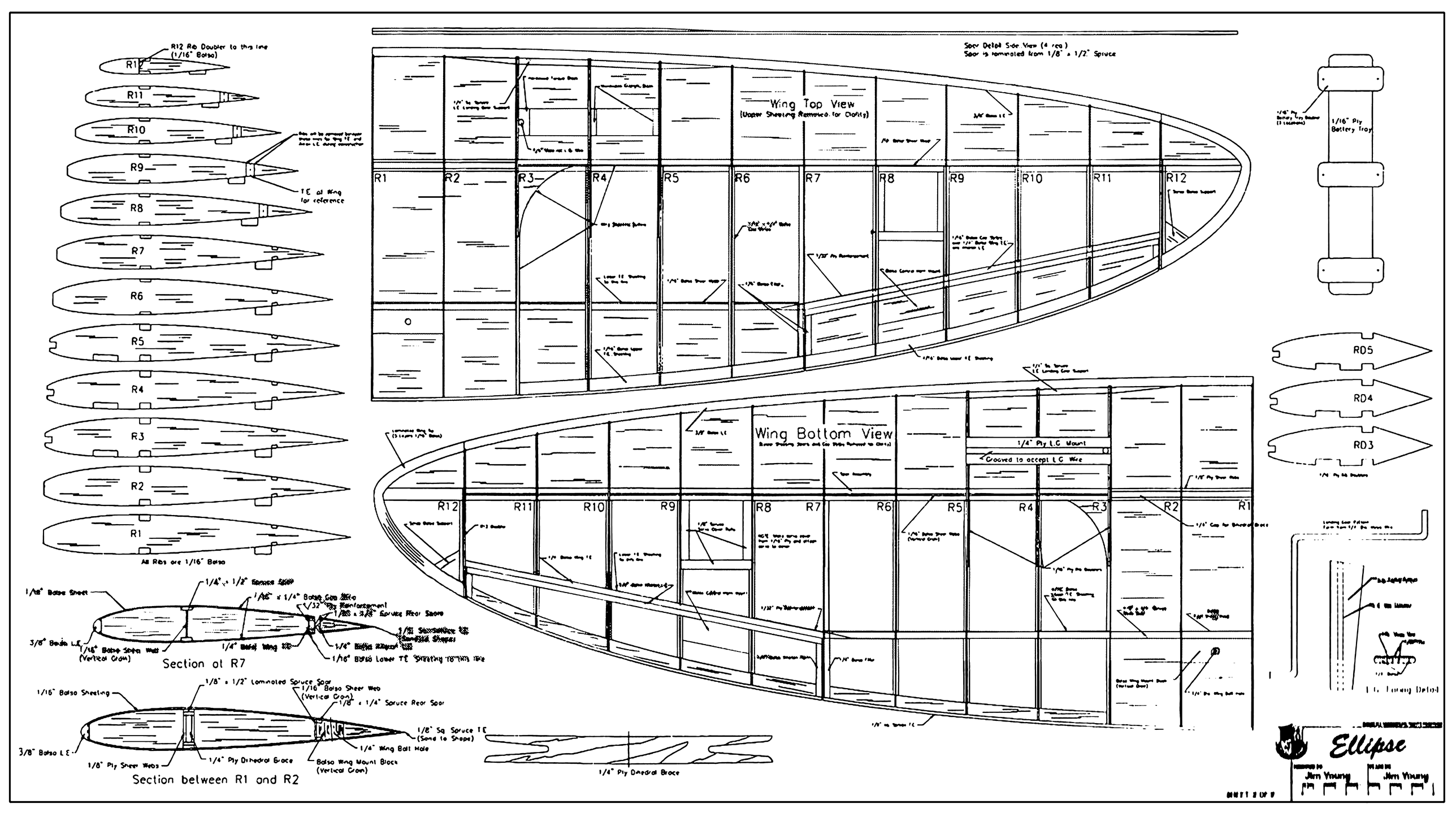

NOTE Build fuse frame to this line
1/16" sheeting will bring it to outside line
NOTE Cross bracing at top of fuse sides
Fuselage Top View
(Top sheeting and stringers removed for clarity)
1/4" Ply Wing Mounting Plate
Drill 1/16" holes every 1/2" for battery tray
Spruce Battery Mounting Rod Assembly
Thrust Angle
Spruce Laminated Fin Outline to LE
1/8" x 3/8" Balsa
3/8" x 1/2" Balsa
3/8" Sq Balsa Fin LE
Lamminated Balsa Rudder/Fin Outline
1/4" x 1/2" Spruce
Battery Mounting Rail Detail
(End View)
Fuselage Side View
(Side sheeting and stringers removed for clarity)
3/8" Balsa Sheet (To top of slots)
1/4" Sq Balsa to support sheeting
1/16" Balsa Sheeting
3/4" Sq Balsa Stringers
1/4" x 1/2" x 17 1/4" Spruce Battery Mounting Rails
1/4" Sq Spruce (Top and Bottom Center Only)
1/16" Balsa Sheeting
Balsa Block
3 1/7" Spinner
TD6
TD5
TD4
TD3
TD2
TD1
F3
F2
F1
F4
1/4" Sq Spruce
Control Rod Exits
1/8" Sq Spruce Stringer
Receiver
Rx Battery
Servos
Motor Battery Pack
WS1
3/8" Balsa
Use Rudder control horn to sandwich top sheet and
1/16" Ply Top Sheet Mount
1/16" Balsa Rear Fuse Side Sheeting
1/16" Balsa Sheeting from here to tail
1/16" Balsa facing on longerons from here forward
1/8" Sq Balsa
1/16" Balsa Facing on Longerons Bottom and Side
Equipment mount frame screw-balsa
1/4" Balsa Hardwood Cut to fit inside nomexs
1/4" Ply Wing Mounting Plate
1/4" Ply Deck
Balsa Filler Block
Nose Ring
Cooling Inlet
Laminated Slab Outline (5 layers 1/16" Balsa)
1/8" x 3/8" Balsa
3/8" Balsa Sheet
3/8" x 1/2" Balsa Slab LE
3/8" x 1/2" Balsa Elevator LE
1/8" x 3/8" Spruce
3/8" Balsa
Nose Ring 1/16" Ply
F1 1/8" Ply
F2 1/8" Ply
F3 1/8" Ply
F4 1/8" Ply
Landing Gear Position
WS1
1/8" Ply Coverage x 12" Sq area
TD1
TD2
TD3
TD4
TD5
TD6
NOTE All Turtle deck formers are 1/16" Balsa
Specifications
Wing Span 80.25"
Length 74"
Wing Area 921 sq in
Weight 10 lbs
Wing Loading 25 oz / sq ft
Airfoil NACA 1412
Motor Astro Flight Sport 60
Batteries 28 cells
Ellipse
Jim Young
Jim Young
SHEET 1 OF 2
PLAN NO. 1291 (2)


R12 Rib Doubler to this line (1/16" Balsa)
R1
R11
R10
R9
R8
R7
R6
R5
R4
R3
R2
R1
TE of Wing for reference
All Ribs are 1/16" Balsa
Spar Detail Side View (4 req.)
Spar is laminated from 1/8" x 1/2" Spruce
Wing Top View
(Upper Sheeting Removed for Clarity)
R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12
1/16" Ply Battery Tray
RD5
RD4
RD3
Wing Bottom View
1/4" Ply LG Mount
Grooved to accept LG Wire
R12 R11 R10 R9 R8 R7 R6 R5 R4 R3 R2 R1
1/8" Balsa Sheet
1/4" x 1/2" Spruce Spar
1/16" x 1/4" Balsa Gap Filler
1/32" Reinforcement
1/8" x 3/4" Spruce Rear Spar
1/8" Sq Spruce TE (Sand to Shape)
3/8" Balsa LE
1/16" Balsa Shear Web (Vertical Grain)
1/4" Balsa Wing Block
1/16" Balsa Lower TE Sheeting
Section at R7
1/16" Balsa Sheeting
1/8" x 1/2" Laminated Spruce Spar
1/16" Balsa Shear Web (Vertical Grain)
1/8" x 1/4" Spruce Rear Spar
1/8" Sq Spruce TE (Sand to Shape)
1/4" Wing Bolt Hole
3/8" Balsa LE
1/8" Ply Shear Webs
1/4" Ply Dihedral Brace
Balsa Wing Mount Block (Vertical Grain)
Section between R1 and R2
1/4" Ply Dihedral Brace
TE Tuning Detail
Ellipse
Jim Young
Jim Young