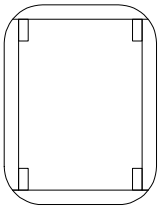
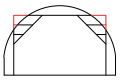
Notes:

* All parts are made from 6mm Depron or BlueCore foam unless otherwise indicated
* If using BlueCore, peel the plastic covering off both sides of all fuselage parts (leave the skin on all wing and empennage parts)
* Sand all wing and empennage leading edges round and apply a piece of 3M Satin tape around the leading edge to add smoothness and durability
* Elevon and canard mixing is recommended for pitch control. Set it up so that full aft stick provides 3/4" trailing edge down on the canard and 3/8" trailing edge up on the elevons.
* Rudder control is optional but provides much better control during low-speed high alpha flight.
* Recommended control deflections (all dimensions measured at root trailing edge):
  - Canard: +/- 3/4"
  - Elevons: +/- 3/4" (ailerons), +/-3/8" (elevators)
  - Rudder: +/- 1.5"
* Use -60% exponential rate on all flight controls
* Make first flights at the forward CG location shown, which provides more stability. Pre-set several clicks of up elevator trim before launching at this CG location (prototype required 3/16" trailing edge down canard deflection to trim).
* For best results choose a power system that provides 15-20 oz static thrust and 45-50 mph pitch speed.
* Recommended brushed power system: GWS EPS-350C with C gearing (5.33), 8x6 GWS SF prop, 11.1V 1200 mAh Lipo battery
* Recommended brushless power system: Himax 2015-4100, 4.4 gearing, 9x6 APC SF prop, 11.1V 1200 mAh Lipo battery
* Use a heat gun to gently bend the foam in the fuselage to pre-form it to the shapes shown

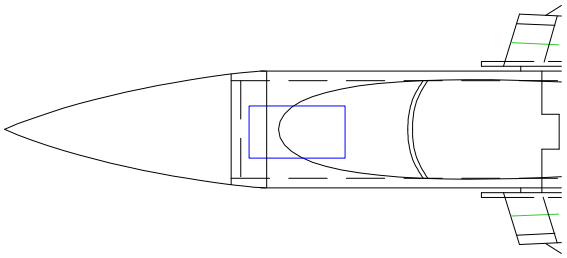
Sand fuselage corners round as shown below (not to scale)



Sand turtledeck corners round as shown below (not to scale)

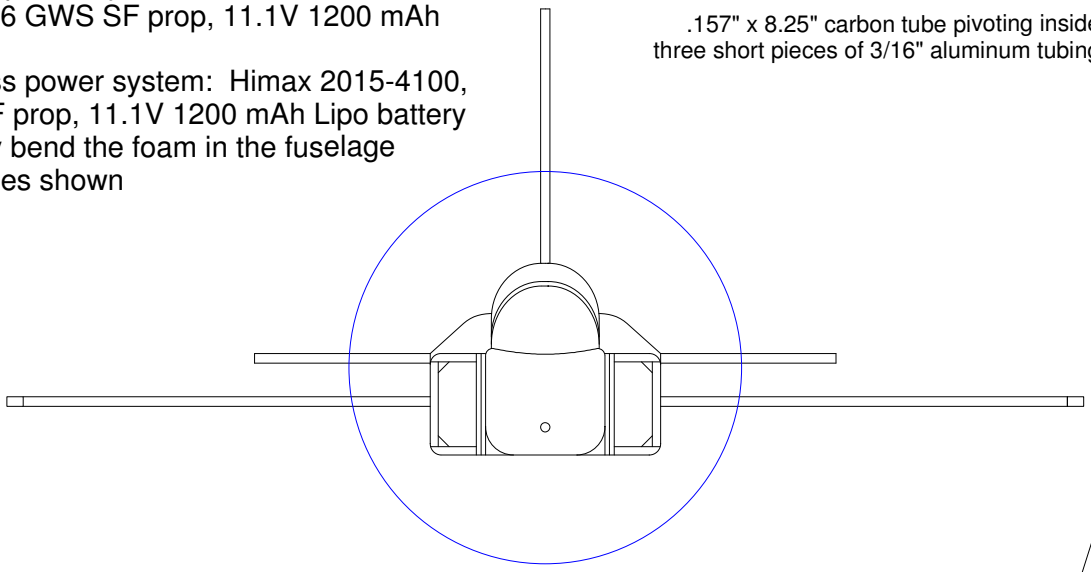


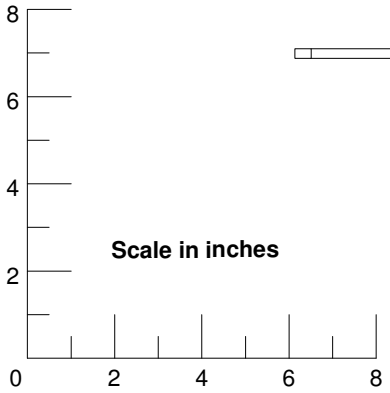
Canard servo



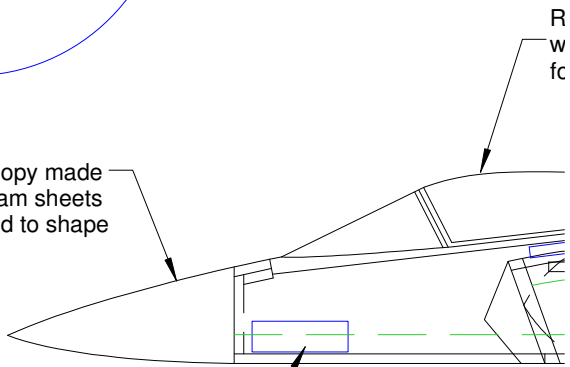
Rudder servo (optional)

.157" x 8.25" carbon tube pivoting inside three short pieces of 3/16" aluminum tubing





Nosecone and canopy made from laminated foam sheets or foam block carved to shape



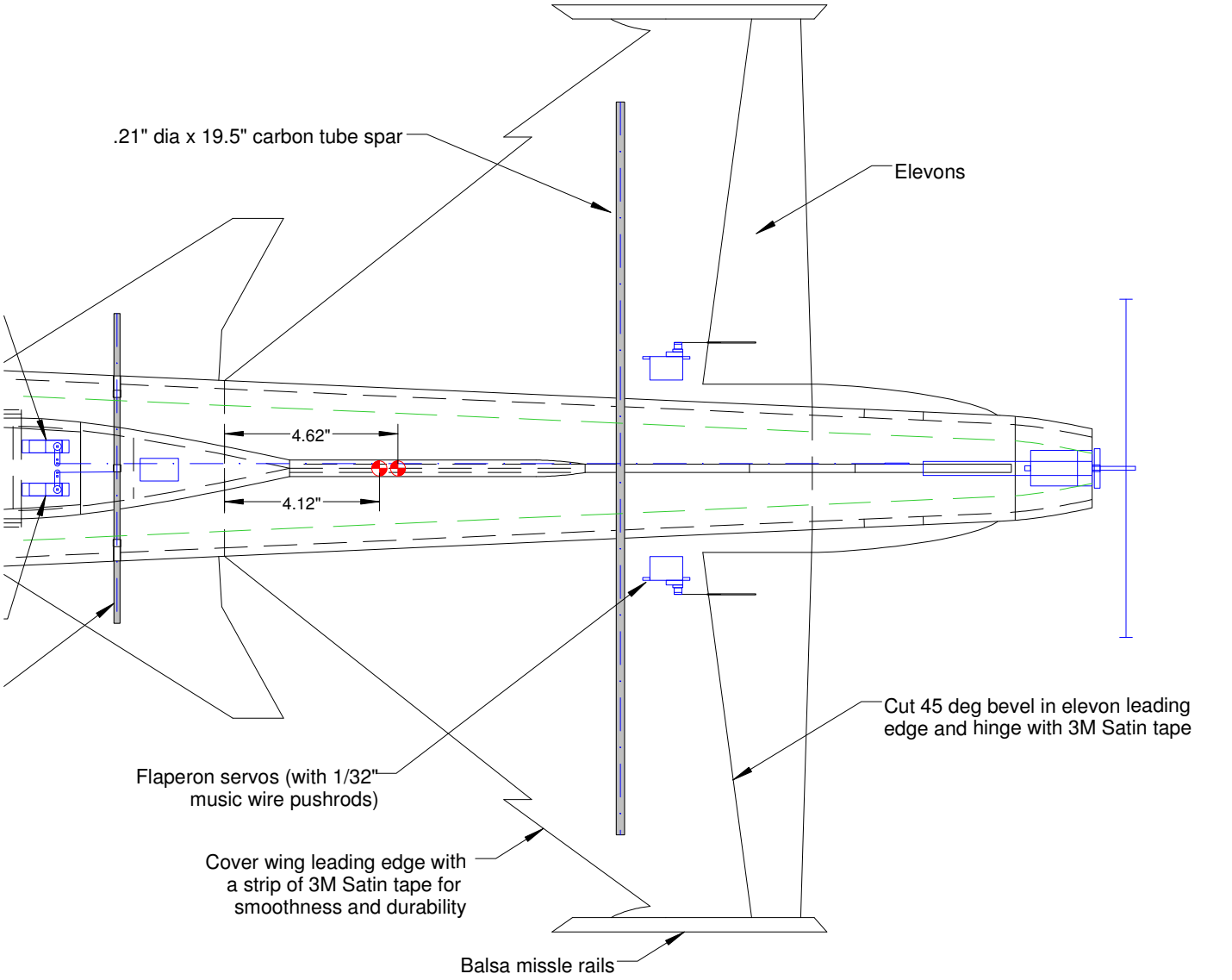
Battery mounted to fuselage floor with a strip of Velcro (to allow CG adjustment)

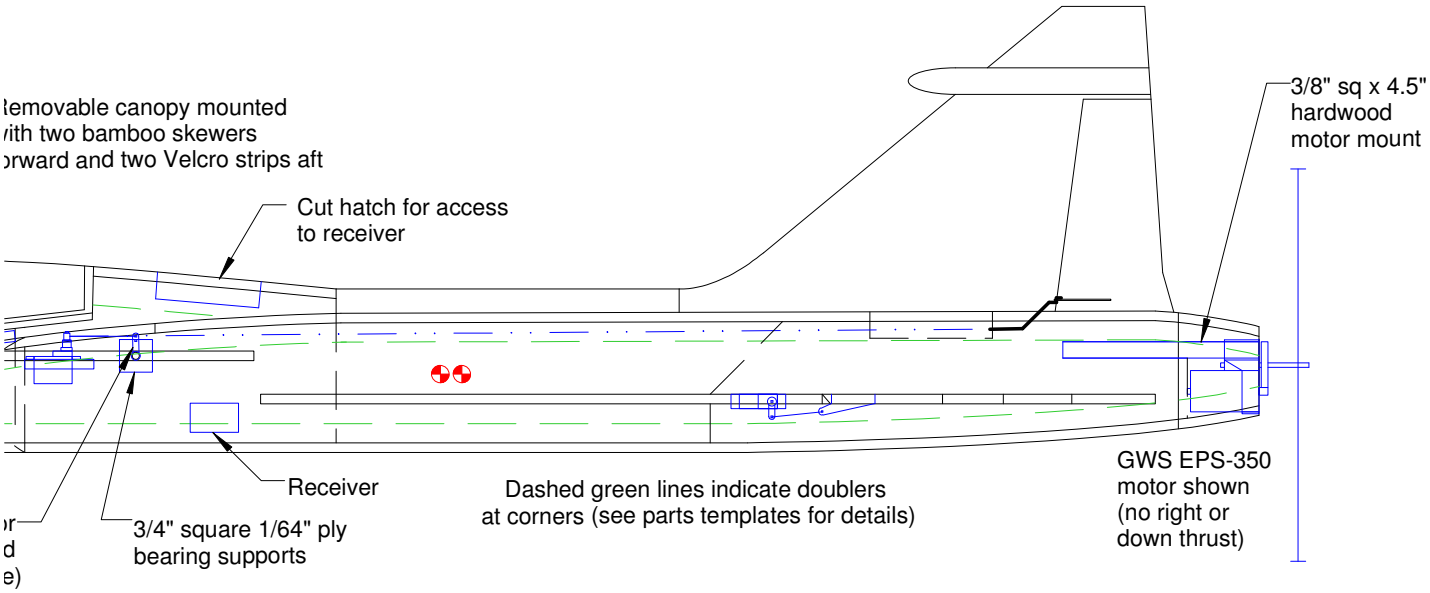
Use servo arm fo control horn (drille out to fit carbon tube

JAS 39 Gripen Park Jet

Span: 23.9"
Wing area: 258 sq in
Weight: 16.0 - 18.0 oz RTF
Wing loading: 9.5 oz/sq ft

Designed and drawn by Steve Shumate


.21" dia x 19.5" carbon tube spar
Elevons
4.62"
4.12"
Cut 45 deg bevel in elevon leading edge and hinge with 3M Satin tape
Flaperon servos (with 1/32" music wire pushrods)
Cover wing leading edge with a strip of 3M Satin tape for smoothness and durability
Balsa missle rails


3/8" sq x 4.5" hardwood motor mount
Cut hatch for access to receiver
Receiver
3/4" square 1/64" ply bearing supports
Dashed green lines indicate doublers at corners (see parts templates for details)
GWS EPS-350 motor shown (no right or down thrust)