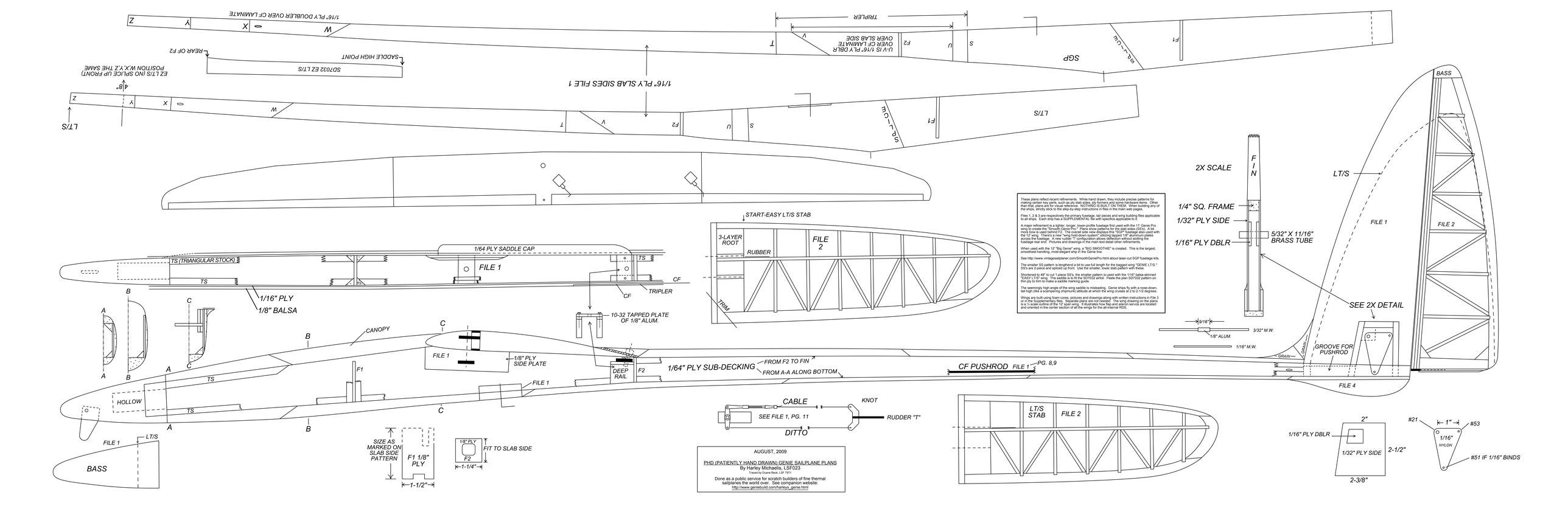

These plans reflect recent refinements. While hand drawn, they include precise patterns for making certain key parts, such as ply slab sides, ply formers and some hardware items. Other than that, plans are for visual reference. NOTHING IS BUILT ON THEM. When building any of the ships, strictly stick to the step-by-step instructions in files in the main web pages.

Files 1, 2 & 3 are respectively the primary fuselage, tail pieces and wing building files applicable to all ships. Each ship has a SUPPLEMENTAL file with specifics applicable to it.

A major refinement is a lighter, longer, lower-profile fuselage first used with the 11' Genie Pro wing to create the "Smooth Genie Pro." Plans show patterns for the slab sides (SS's). A bit more bow is used behind F2. The overall side view displays this "SGP" fuselage also used with the 12' wing. There's a new "wing hold-down system" utilizing tapped 1/8" aluminum plates across the fuselage. A new rudder "T" configuration allows deflection without slotting the fuselage rear end. Pictures and drawings in the main text detail other refinements.

When used with the 12' "Big Genie" wing, a "BIG SMOOTHIE" is created. This is the largest, smoothest-handling, most elegant ship in the Genie line.

See http://www.vintagesailplaner.com/SmoothGeniePro.html about laser-cut SGP fuselage kits.

The smaller SS pattern is lengthend a bit to use full length for the bagged wing "GENIE LT/S." SS's are 2-piece and spliced up front. Use the smaller, lower slab pattern with these.

Shortened to 48" to cut 1-piece SS's, the smaller pattern is used with the 1/16" balsa-skinned "EASY LT/S" wing. The saddle is to fit the SD7032 airfoil. Paste the plan SD7032 pattern on thin ply to trim to make a saddle marking guide.

The seemingly high angle of the wing saddle is misleading. Genie ships fly with a nose-down, tail-high (like a scampering chipmunk) attitude at which the wing cruises at 2 to 2-1/2 degrees.

Wings are built using foam cores, pictures and drawings along with written instructions in File 3 or in the Supplementary files. Separate plans are not needed. The wing drawing on the plans is a ½ scale outline of the 12' span wing. It illustrates how flap and aileron servos are located and oriented in the center section of all the wings for the all-internal RDS.

AUGUST, 2009

PHD (PATIENTLY HAND DRAWN) GENIE SAILPLANE PLANS
By Harley Michaelis, LSF023
Traced by Duane Beck, LSF 7971

Done as a public service for scratch builders of fine thermal sailplanes the world over. See companion website:
http://www.geniebuild.com/harleys_genie.html