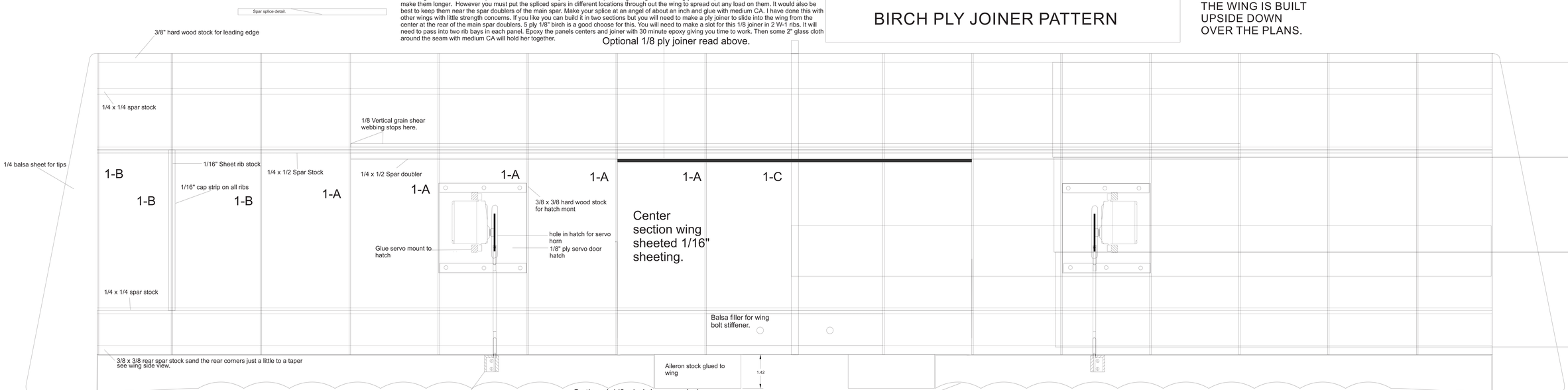
BIRCH PLY JOINER PATTERN

THE WING IS BUILT
UPSIDE DOWN
OVER THE PLANS.

This wing should be built all in piece it has no dihedral. If you don't have spars long enough for the wing you can splice them one time on each spar to make them longer. However you must put the spliced spars in different locations through out the wing to spread out any load on them. It would also be best to keep them near the spar doublers of the main spar. Make your splice at an angel of about an inch and glue with medium CA. I have done this with other wings with little strength concerns. If you like you can build it in two sections but you will need to make a ply joiner to slide into the wing from the center at the rear of the main spar doublers. 5 ply 1/8" birch is a good choose for this. You will need to make a slot for this 1/8 joiner in 2 W-1 ribs. It will need to pass into two rib bays in each panel. Epoxy the panels centers and joiner with 30 minute epoxy giving you time to work. Then some 2" glass cloth around the seam with medium CA will hold her together.

Optional 1/8 ply joiner read above.

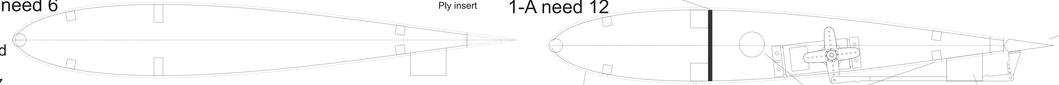


Optional 1/8 ply joiner read above.

1-B need 6

Ply insert

1-A need 12



1-B Pattern 6 needed make a few more for repairs.

1-A Pattern 12 needed.

1/16" Wing sheeting

Holes for servo wires.

Build tab to keep rib level remove to sheet bottom.

0 1 2 3 4 5 6

1/16" Rib cap strips

Dowel LE

Balsa LE

1-C Center 1/4 ply rib.

"CLASSIC UGLY STICK"

Orginally design by Phil Kraft and
re-engineered in
CAD format by Guy Fuller 1997
Newly Cad designed stronger
wing with a true airfoil (see data)
and much more building
information with accurate parts
and measurements drawn by
Jason Niemier 1-9-2007