

LIMULUS



Materials:

I used 3-4 oz veg tan and in my opinion is a little too thin. I think the ideal would be around 5 oz veg or any other with medium to firm temper. I think the best would be something oily / waxy with full body.

If using veg tan, don't forget to burnish the edges. For this project it is important and gives it a nice finished look.

You will need 4 pieces of lace for the latigo knots on the straps unless you want to use rivets or any other way of attaching them which is perfectly fine.

Hardware:

1 x 1" buckle
2 x 1" double loops for strap adjustment

Tools:

Scissors, knife (paper knife or rotary cutter would also work).

Stitching irons: my pattern is made for 5mm stitching irons (5 stitches per inch). If you are willing to use any other size please make sure that the hole count is the same where it has to be the same.

Needles - according to your thread size, a pair of harness needles.

Mallet, rivet setter, hole punch, 1" and 3/4" bag punches (oblong).

Instructions:

Print the pattern at actual size (100%). Use the reference on top of each page to make sure everything is printed correctly. Join the pages together. Cut the pieces.

Refer to the pictures (AssemblyPics.zip) for visual explanations :)

Start assembling the front panel: sew the sides to the middle part using one of flat stitches - doesn't necessarily have to be the parallel style like mine; you can use baseball stitch or cross stitch.

Sew the bottom dart. This seam will not be visible so it doesn't have to be pretty.

Sew the buckle holder on top of the bottom dart. Start from the top, after the first stitch insert one side of the keeper (see pics). Finish one side, start sewing the other side as well from the top, and insert the other side of the keeper in the seam. That is a little tricky so you can sew layer by layer and then tighten the seam up. Don't forget to insert the buckle beforehand, I've been there done that! :D For now, do not sew the bottom part of the buckle holder.

Now that you got your front panel ready, start sewing it on the back panel starting at the first hole on top right below the horizontal seam (shown on the pattern). Bypass the bottom "ears" and just follow the round shape. The bottom of the buckle holder is sewn in the same seam together with the front panel. When you get to the hole in the middle of the bottom of the buckle holder (see pattern), you must pass the needle in between the dart sides of the front panel and then through the back panel. Do not tighten the thread too much in this part. This is necessary because the hole count on the back panel is odd (101), but on the front panel it is only possible to have even number of holes. So, we cheat a bit.

As I am not sure if that part was confusing, again: pass the needle through that middle hole of the bottom of the buckle holder. Squeeze it in between the sides of the bottom dart (layer 2). And pass it through the hole on the back panel normally.

0cm 1cm 2cm 3cm 4cm 5cm

A-1

1in 2in 3in



BACK PANEL

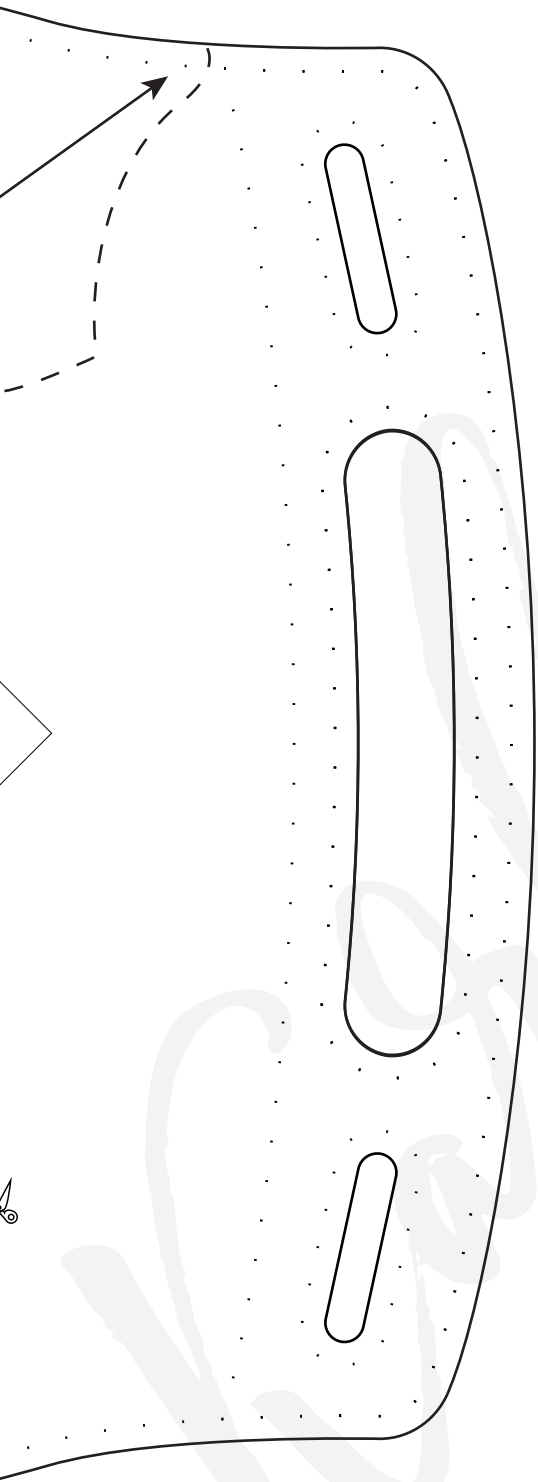
Start sewing
front panel (side)
at this hole



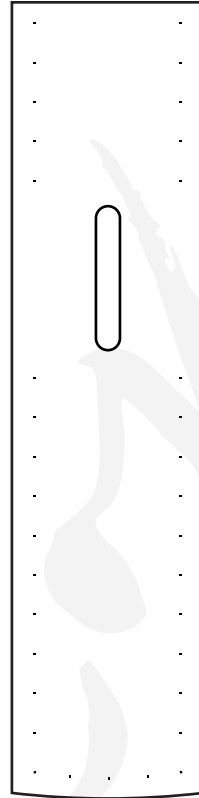
0cm 1cm 2cm 3cm 4cm 5cm

A-2

1in 2in 3in



CLOSURE BUCKLE HOLDER



KEEPER FOR CLOSURE STRAP

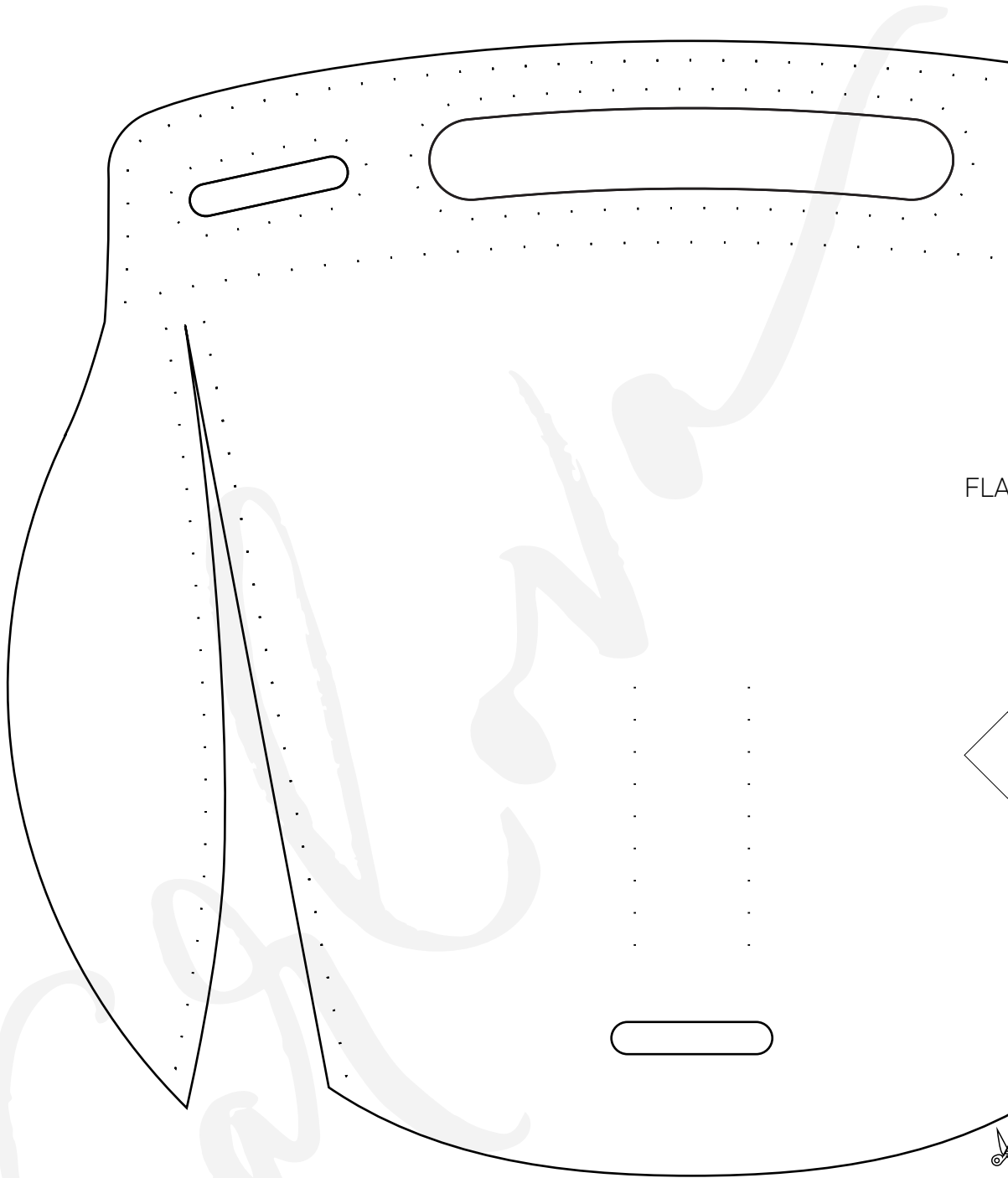


This is that "hole in the middle" that I mention in the instructions.

0cm 1cm 2cm 3cm 4cm 5cm

A-3

1in 2in 3in



FLA



STRAPS X2

MEASURE THE DESIRED LENGTH. MINE IS 31"

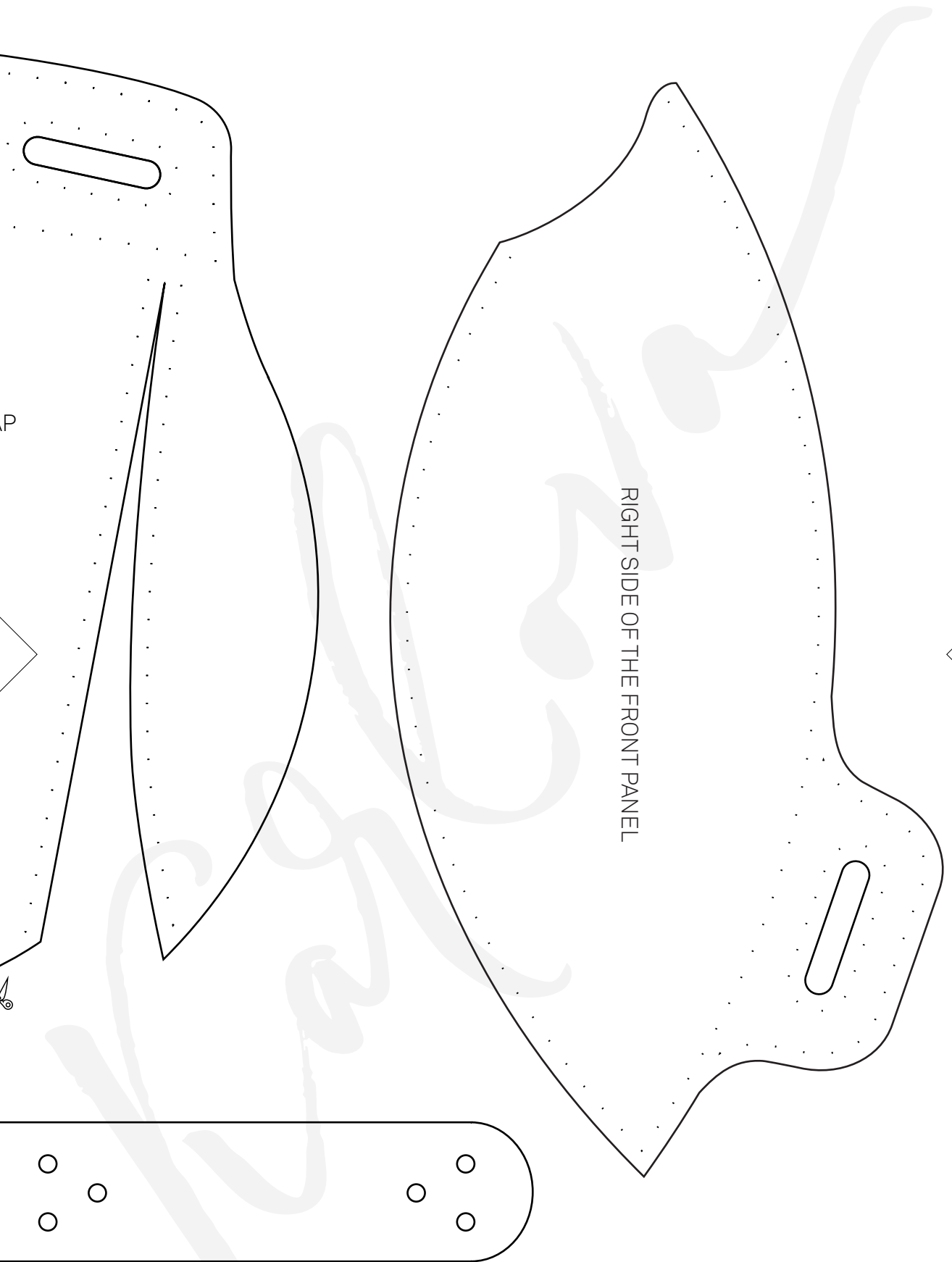
This end attaches to the double loop

This

0cm 1cm 2cm 3cm 4cm 5cm

A-4

1in 2in 3in

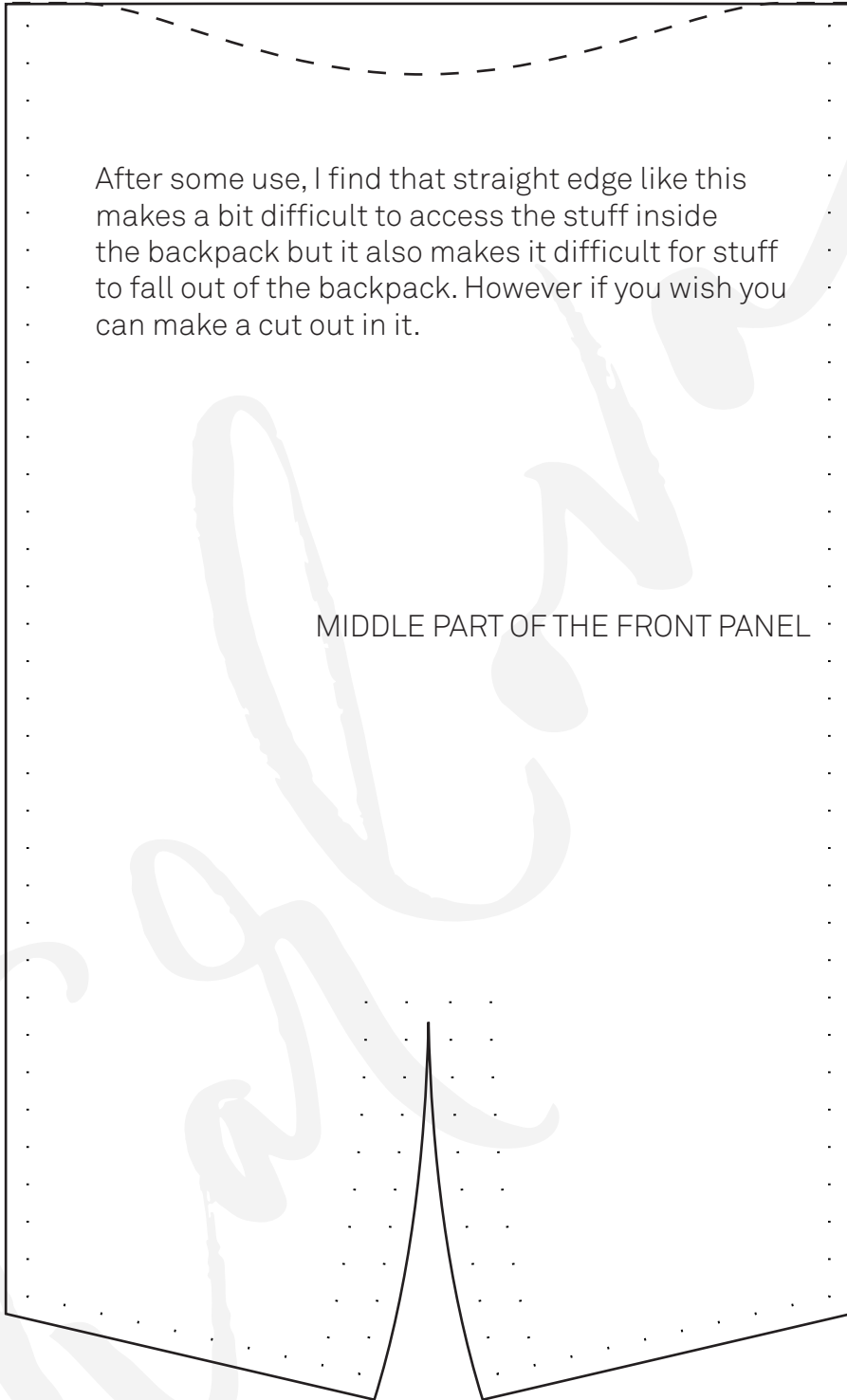


RIGHT SIDE OF THE FRONT PANEL

end attaches to the top strap holes



B-1



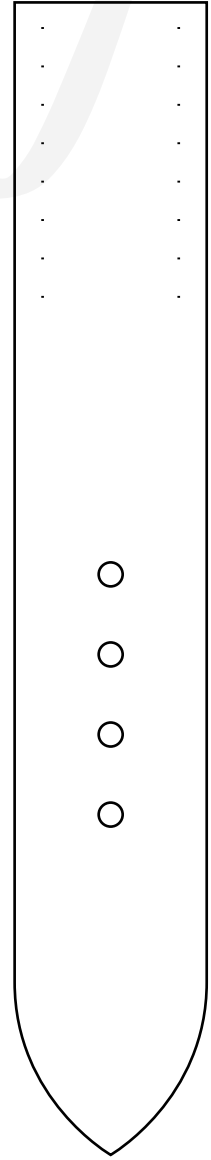
0cm 1cm 2cm 3cm 4cm 5cm

B-2

1in 2in 3in



LEFT SIDE OF THE FRONT PANEL



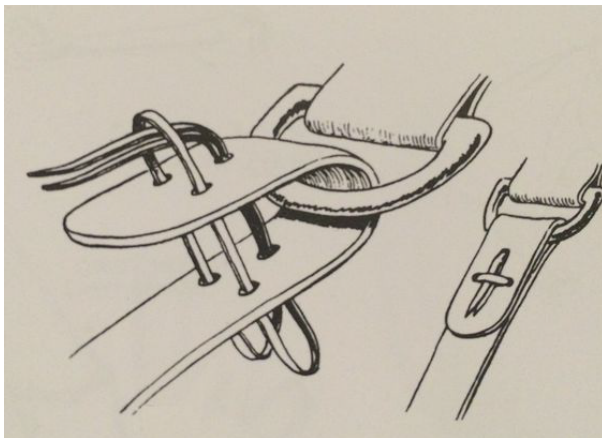
CLOSURE STRAP

Then continue stitching until you have the front panel sewn onto the back panel. Alright, here is what I did - because I still had a lot of thread left, I grabbed the flap and did the outer contour of the top part (where the handle and strap holes are) with the same thread. You may or may not do it but anyway it is the next step.

After that (order does not really matter but anyway), sew the side darts on the flap. Again, use the stitching style you like, I would just recommend that it would be the same one as you used on the front panel. Then, attach closure strap - it is sewn underneath the surface of the flap and comes out through the oblong hole.

Finish off the handle, strap holes, and “ears” on the bottom, nothing tricky there, just some work :) Around the holes, start each seam on the outer side so the straps cover back stitches.

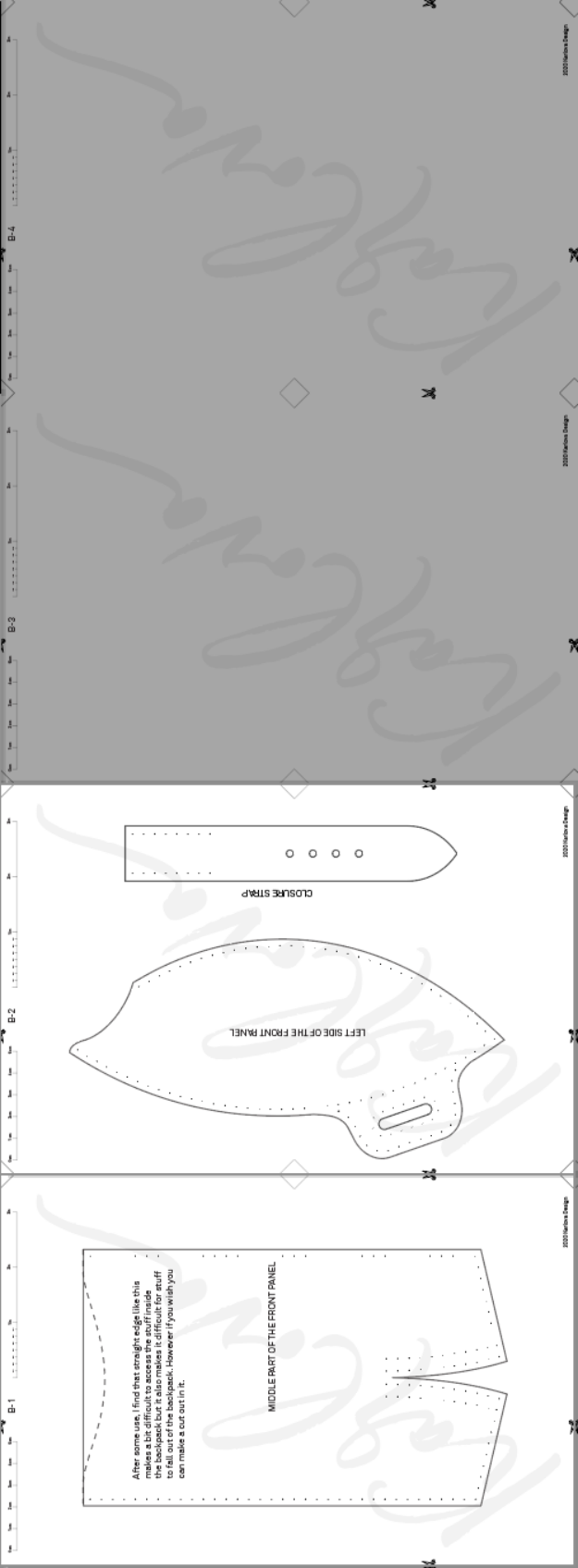
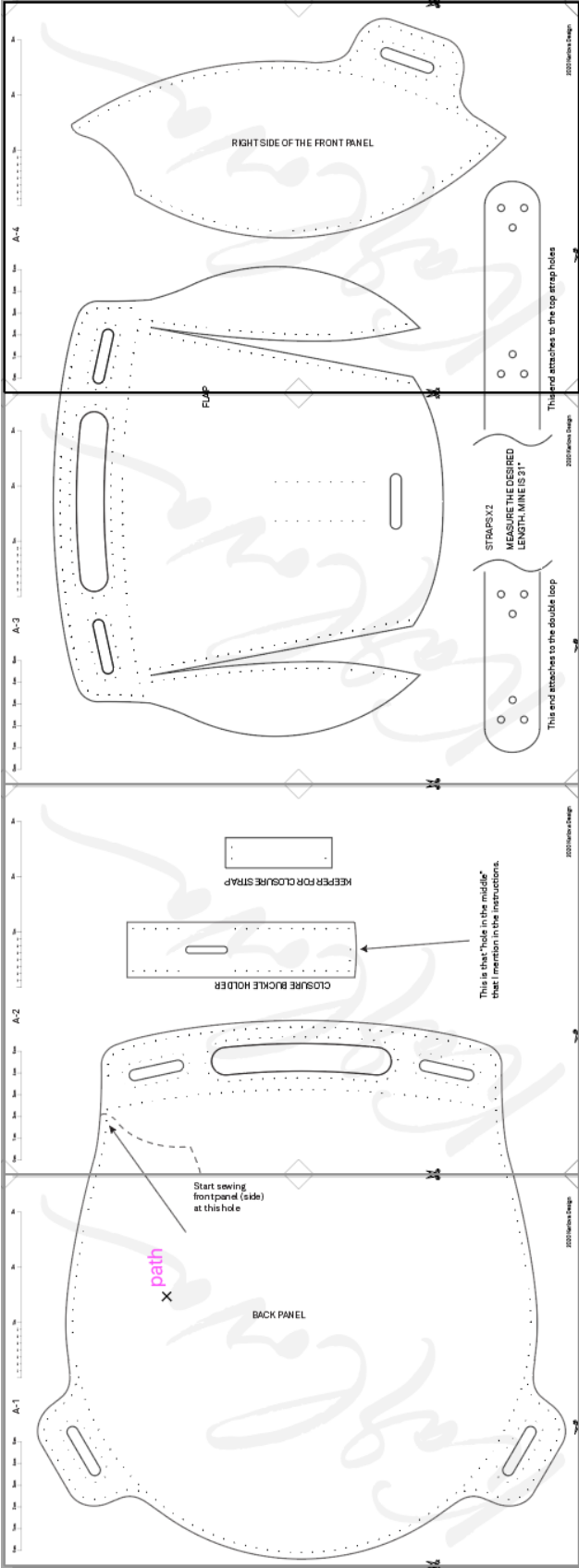
Attaching straps: As I mentioned above, you can use any method you like, I chose this way because it is not used in bags too often and I wanted something traditional here. This picture is from the Internet and I could not find the copyright (probably Stohlman) but here how you make those knots:



First of all attach the double loops to straps. Then pass the other end through the bottom “ear” from back to front. Pass it through the double loop. Attach the top strap ends to the strap holes on the top. Voilà.

Any questions or comments, e-mail me: lissius@gmail.com.

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www.facebook.com/groups/karlovadesign



After sewing up I find the straight edge. This makes it difficult to get the straps off the backpack but it also makes it difficult for stuff to fall out of the backpack. However if you wish you can make a cut out in it.