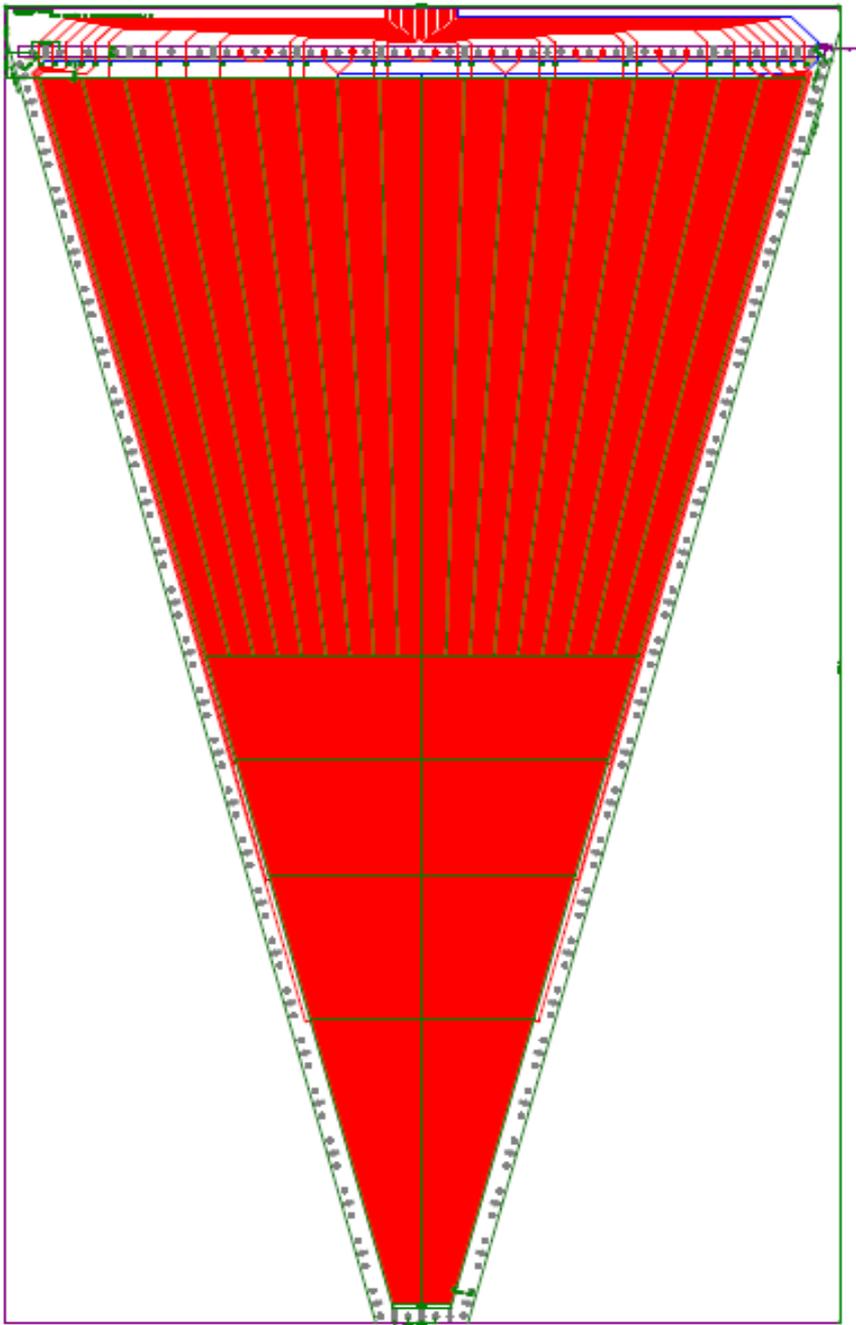


# Common GEM foil prototype design for EIC Forward Tracking

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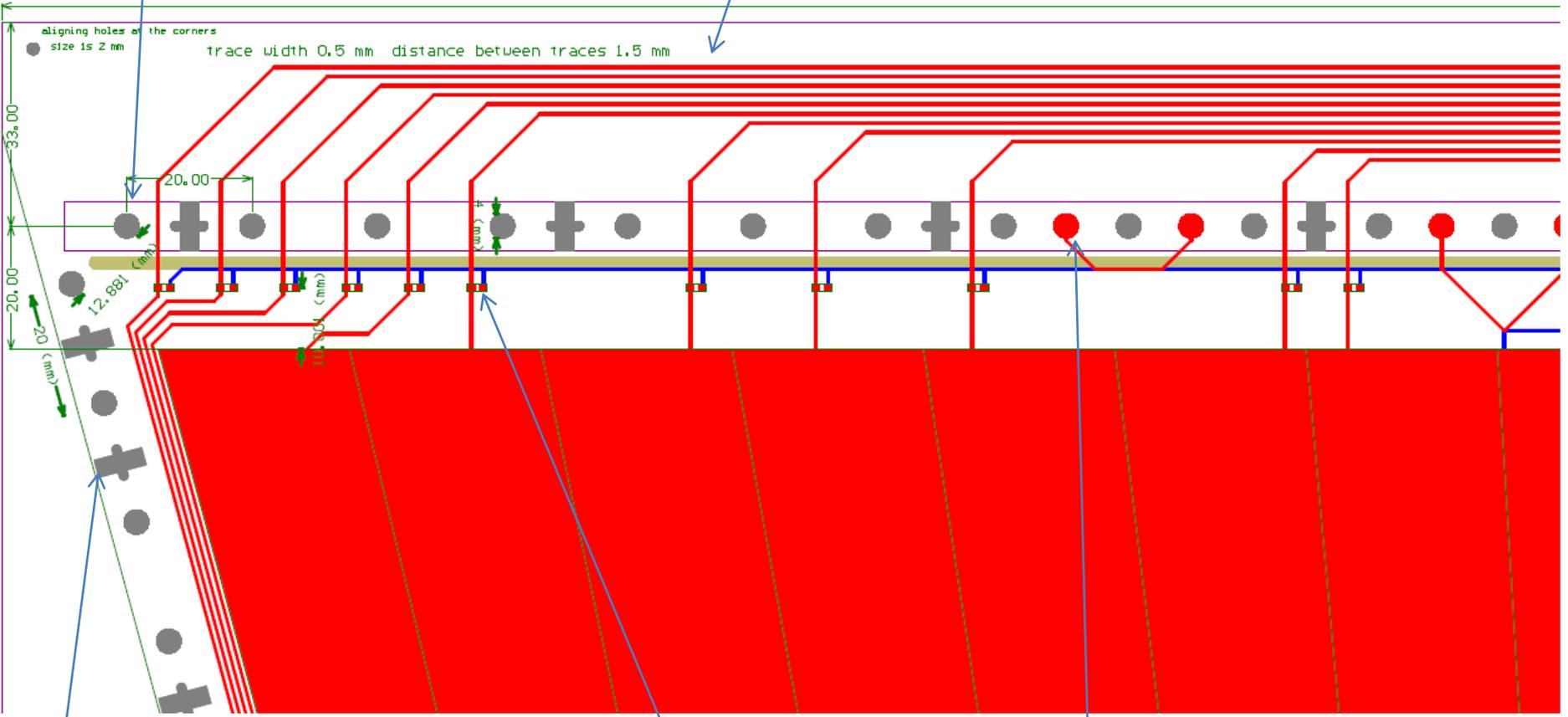


GEM foils should come with a rectangular shape, the current designed size is:  
**600mm by 1031.314 mm**

Each group has the feasibility to design the frames.

Assembling hole

HV traces for sectors

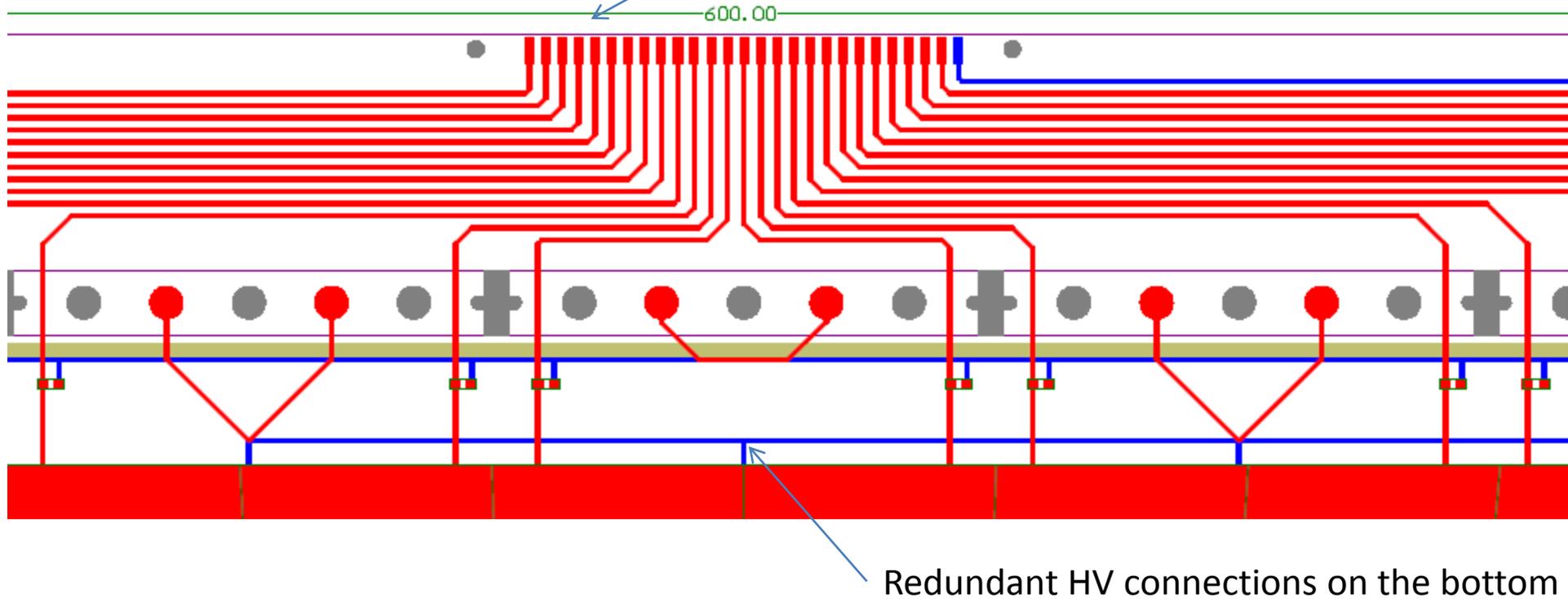


Cross hole for FIT stretching

FIT resistor

FIT HV pad

HV pads (for UVa & Temple Groups)  
Note blue pad on the bottom surface.



### Quick summary:

Close to a final design, we need to:

- 1) Decide size of HV pads for UVa & Temple Groups (currently with a 2 mm pitch, too small?);
- 2) Put some holes for aligning triple-GEM;
- 3) Discuss with Tech-Etch about the possibility, that in a common design, of drilling / not drilling the FIT cross holes for the three groups
- 4) GEM holes not in yet, would be easier to have Tech-Etch doing that.