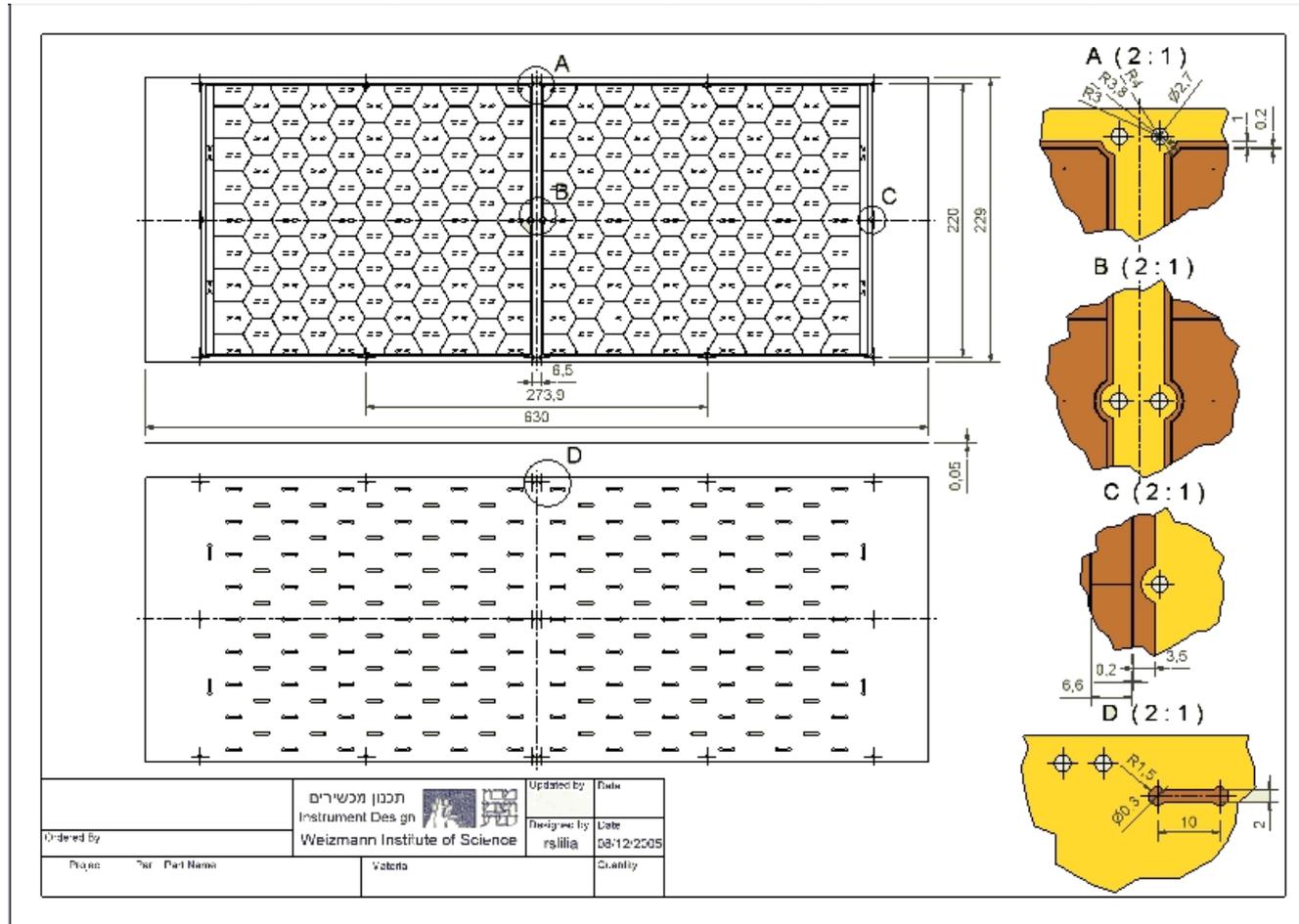


---

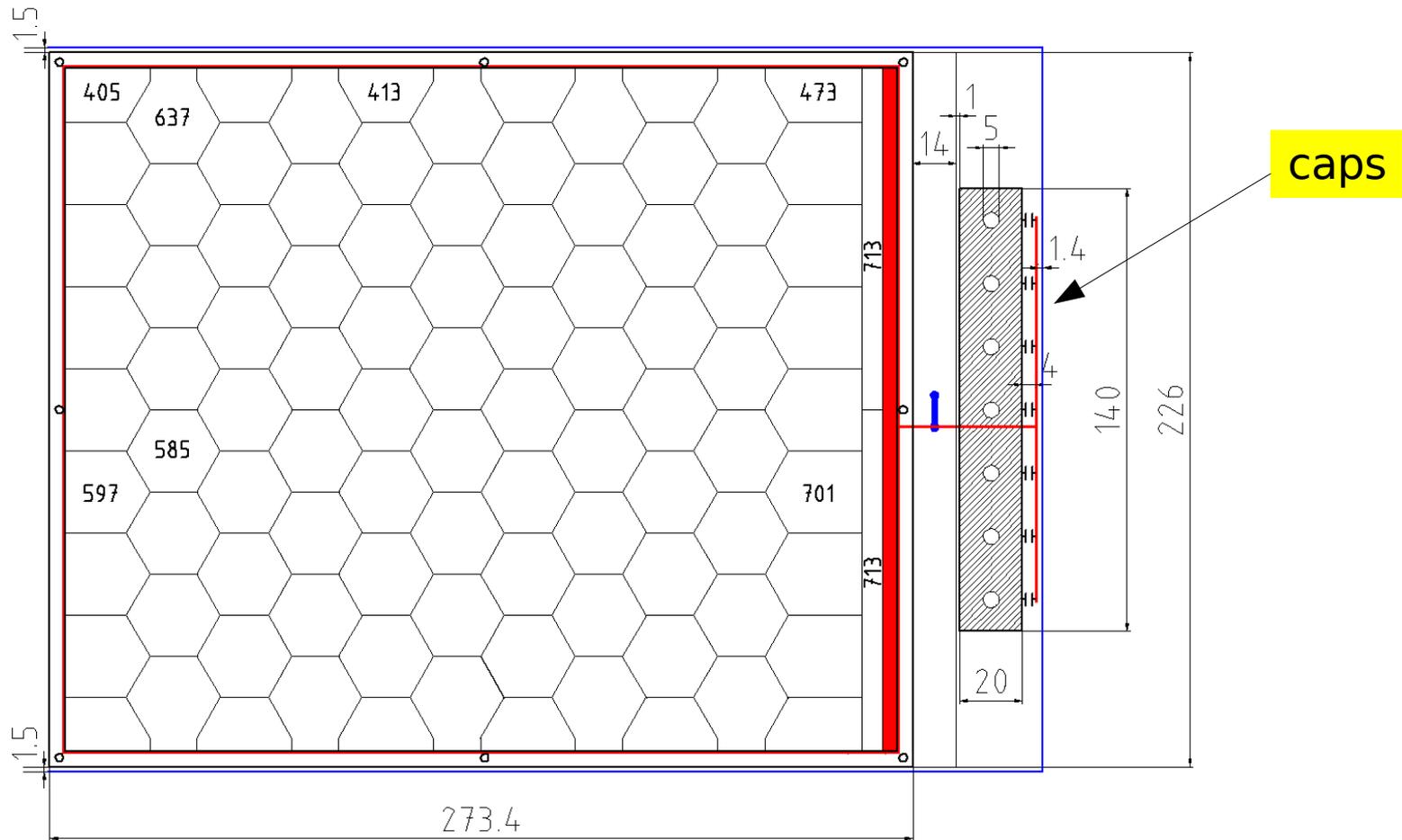
# PCB and HV panel design

I. Ravinovich for Weizmann group

The real design of the PCB is ready, we need to discuss a few small additions (see the next slide). The recesses around the holes are exactly the same as on the GEM foils, no dead area.



The proposed grounding strips around the GEM module and bypass caps for each HV wire coming from HV panel just a few cm before the GEM foil. The blue trace on the back side of the PCB is for the feed-through wire from the ground strips on the PCB to the ground of the outside read-out plane.



We prepared a mock-up to see how it works. The HV holder made out of FR4 (40 g) and glued to the panel. The 14 HV wires from the neighboring panels enter the holder, this module adds 7 more wires, so on the exit there are 21 wires towards HV panel. So, 21 (per side) to the top HV panel, 21 to the bottom one.

