

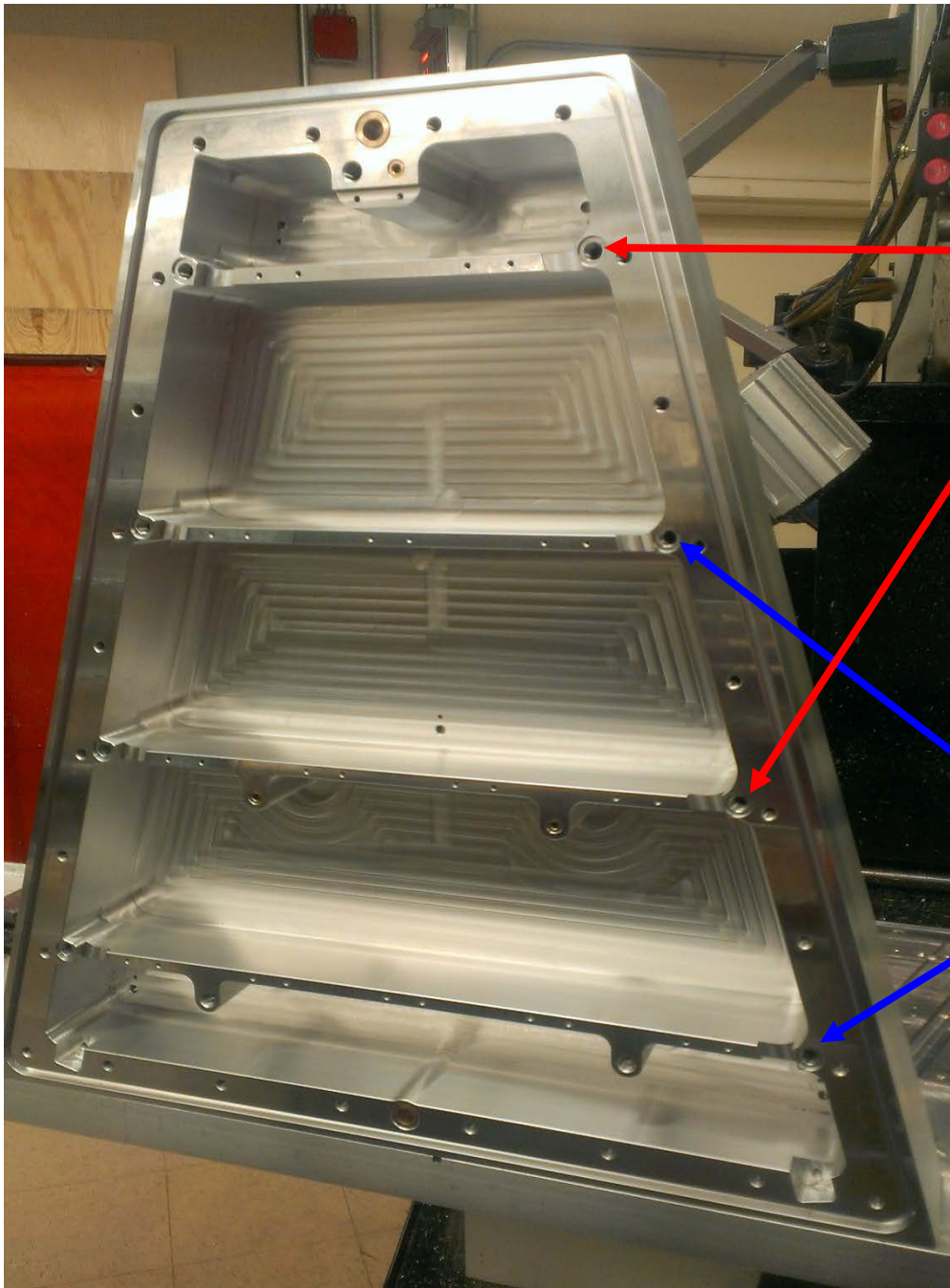
O Ring Groove (1)

SHV feedthroughs to feed HV wires to ABDB on side ports, all connectors are vacuum feedthroughs with O'rings. (4 total, 1 per rib)

Bolt holes for fastening strongback to TPC wheel (26)

Cutouts for cooling manifold. (square notch in top of rib) (8 total, 2 per rib)

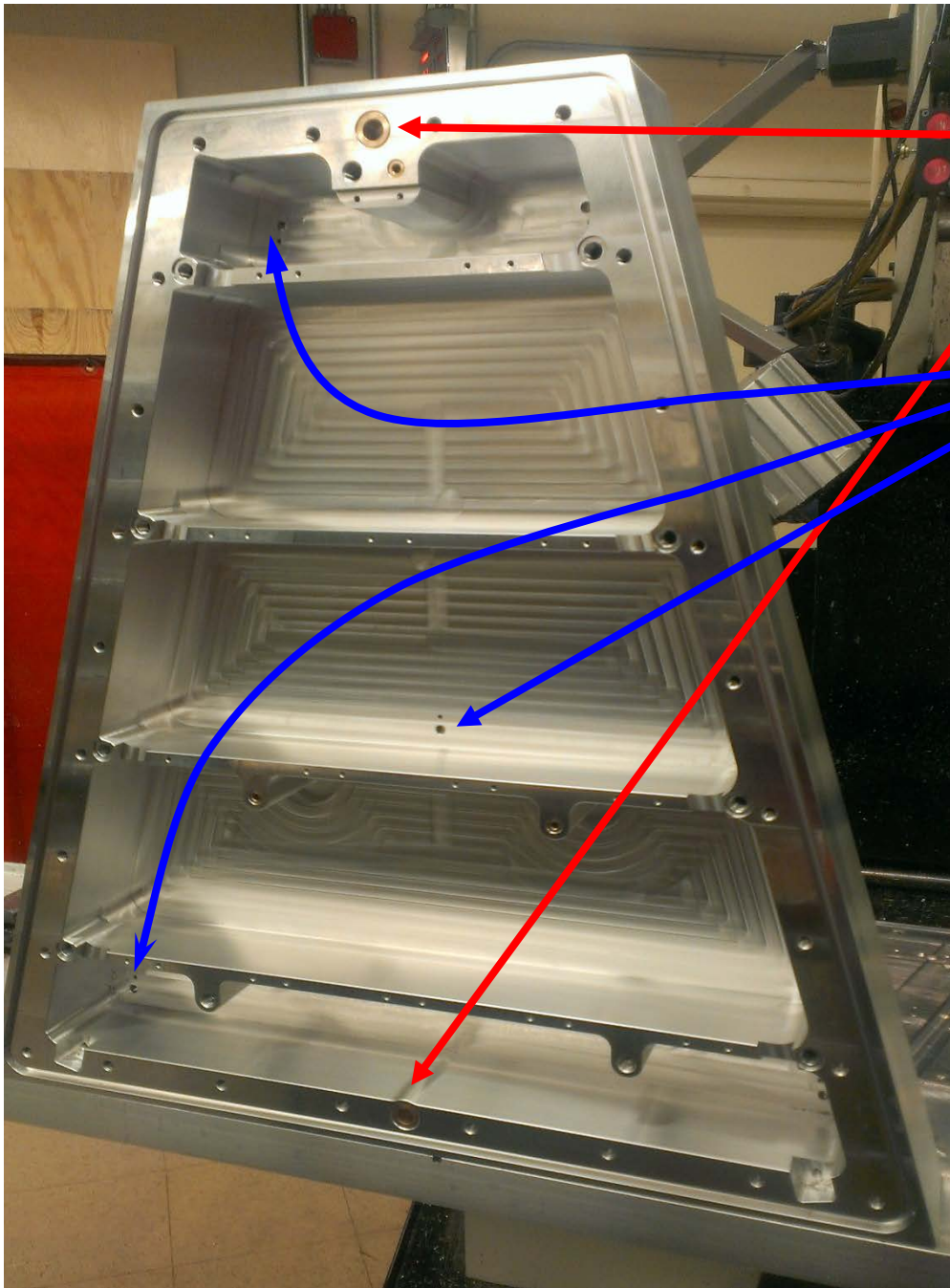
Cutout for 'tail' of cooling manifold (2)



TwinAX connectors to pulse the Gating Grid (2 places, total).  
Vacuum feedthroughs with O-ring seal.

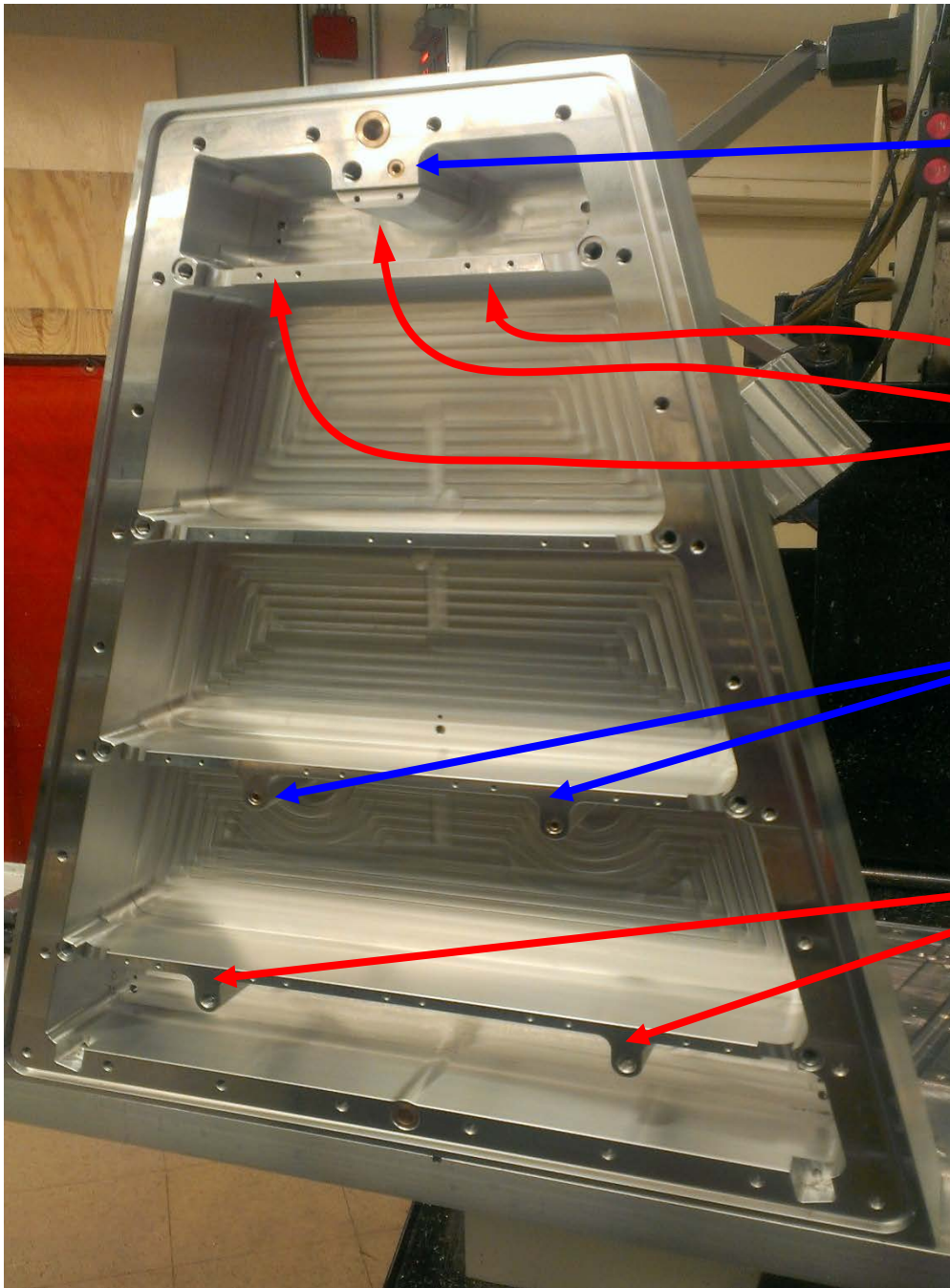
BNC Connectors to pulse GND Grid (2 places, total). The  
GND grid is sometimes known as the "Shield" grid.  
Vacuum feedthroughs with O-ring seal.





Tooling ball alignment bushing (1 on top, 1 on bottom)  
These bushings mate to tooling balls inside the TPC.

Through hole and screw hole for grounding wire that  
comes from the PCB pad plane (5 pairs)



Bolt Hole for Spider mount next to bushing for optical target (1 each)

Threaded holes for mounting electronics boards, they come in pairs and 2 or more pairs per rib, except lone pair at top. 28 holes on ribs + 2 at top = 30 total

Bushings for optical targets (2 on this rib plus one more at top)

Spider mount bolt holes (2 on this rib plus one more at top)