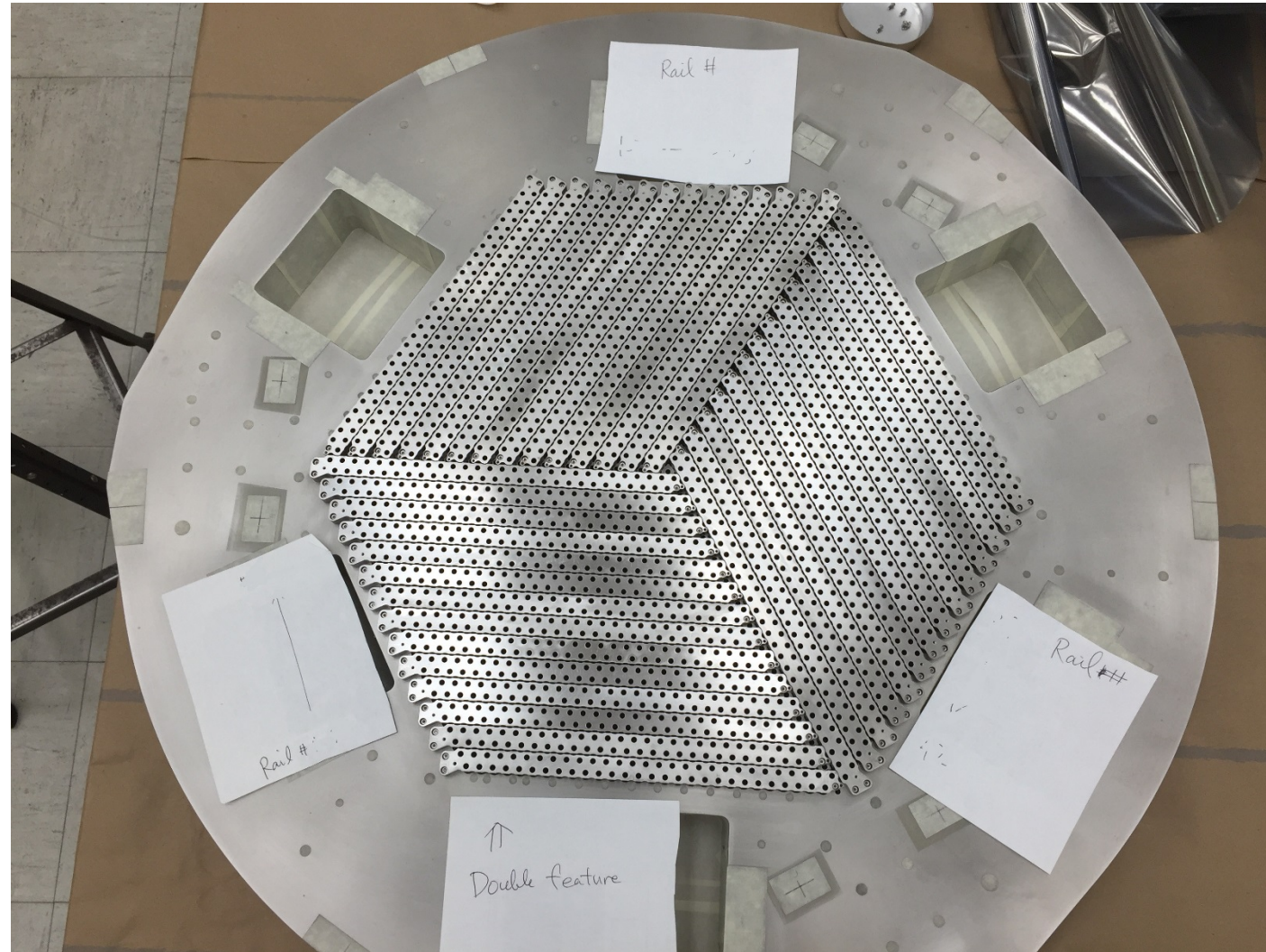# Serialization of Rails

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Revised: October 3, 2016

All Rails were fastened on COB (9/29/2016)

Serial numbers and installation order

Rails will be named as described on the right. Field numbers and rail numbers match with Focal Plane Configuration Map by LNA.

Pink fiducial posts are installed before rails

Rail #1, #15, and #29 should be first to be installed (yellow), and #14, #28, and #42 should be installed last (orange)

Purple fiducial posts are installed after all rails
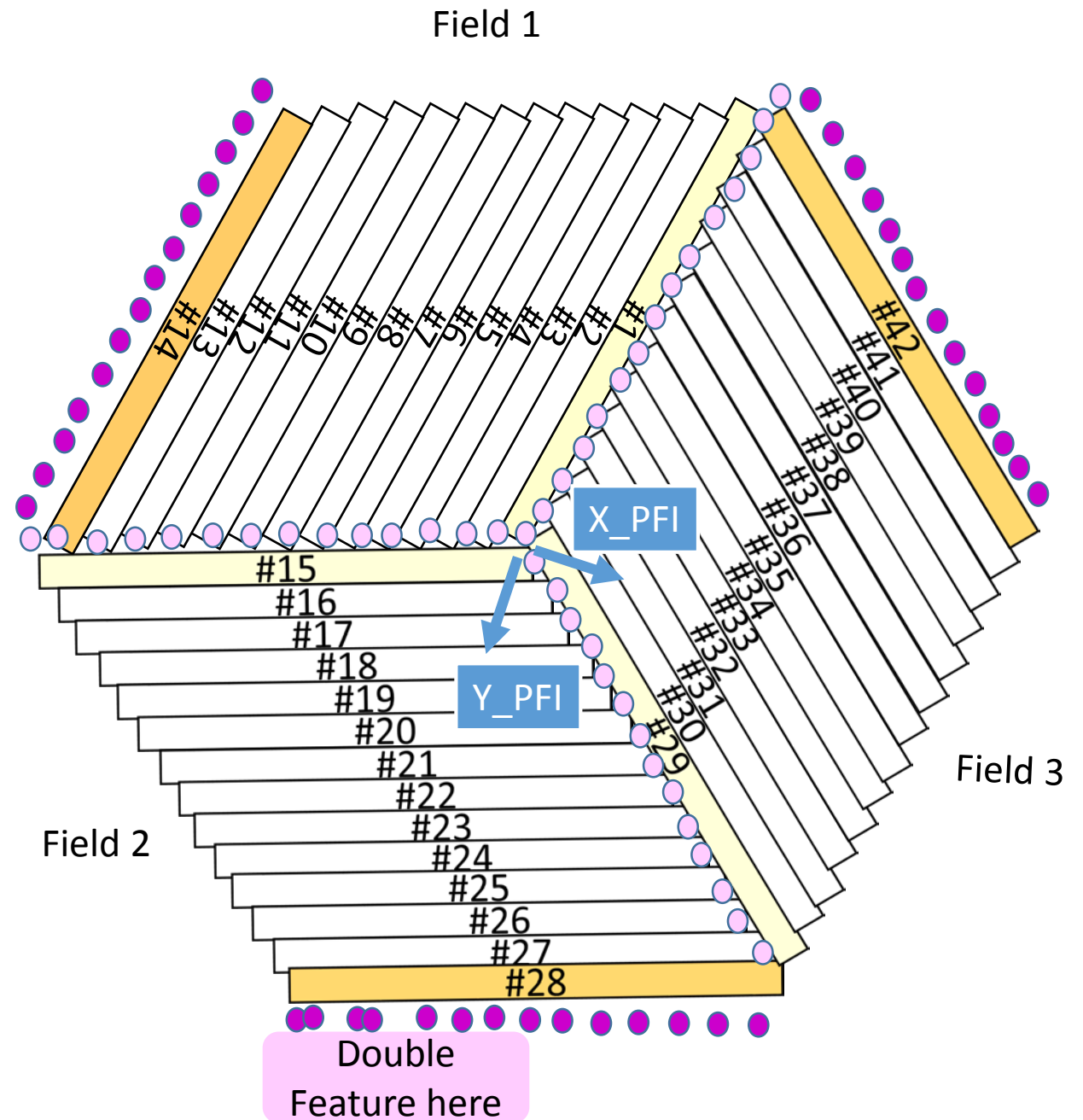
Observations

- This fit check was performed because of the interference concern, however there was no evidence that the interference between rails and COB will cause problems like following:
  - Space for flex cable routing (slide #5 & 6)
  - Flush onto COB surface (slide #7)

- One rail was found to be defective (slide #8)

Flex cable space – between rails

0.008" (0.2mm) shim strip was used between the rails to check the space – shim was able to slide along the length of all rails
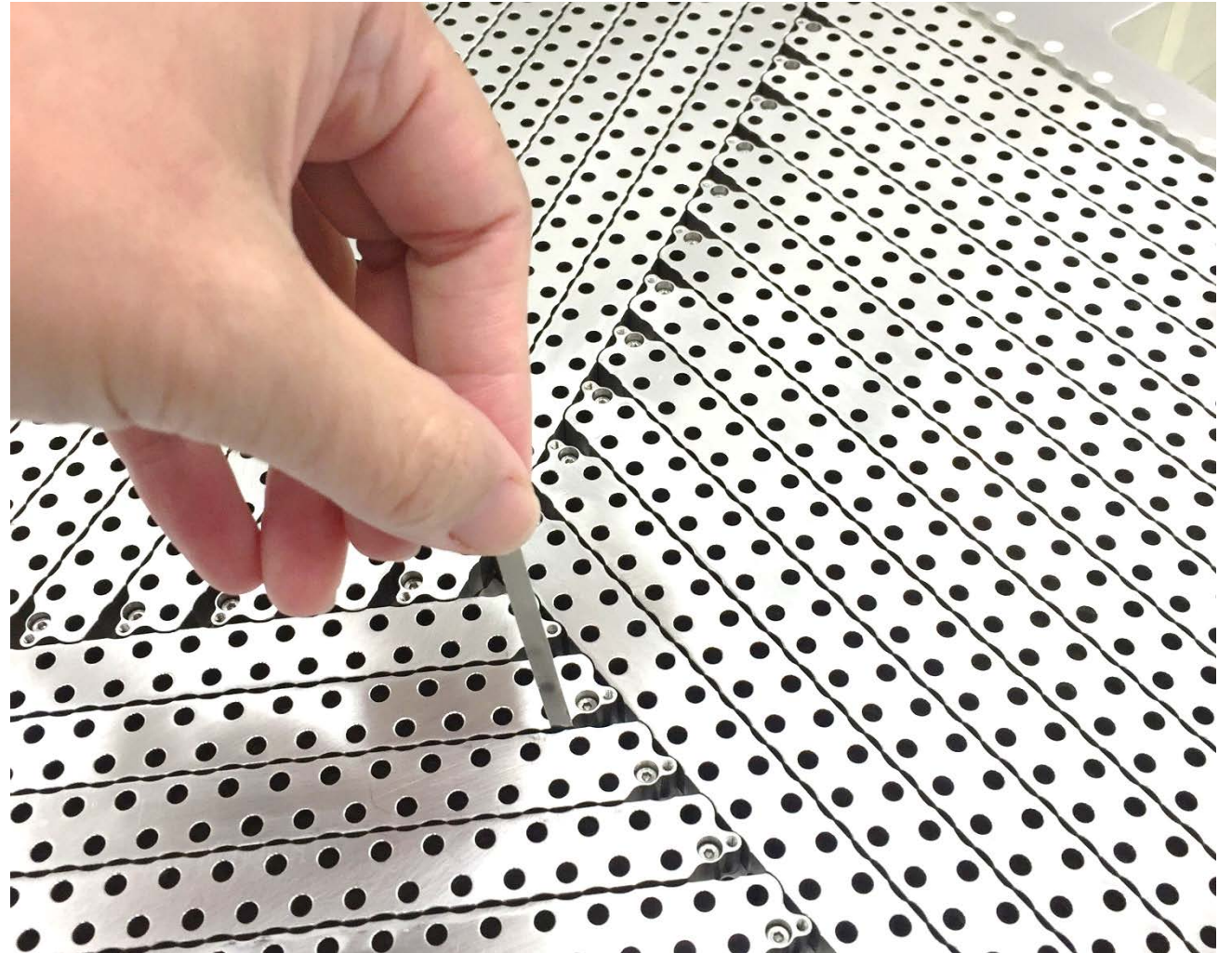
Flex cable space – between rail and COB

Production Cobra was used to check the cable space between the edge rails and COB. For some positions, the cables had to be in exactly correct position but they all had enough space
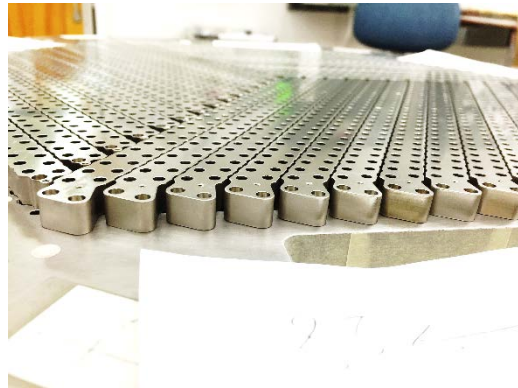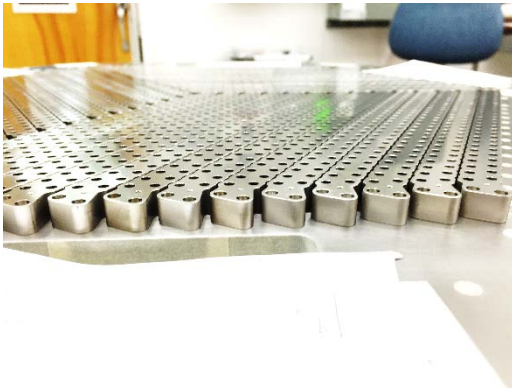
Flush onto COB

Space between the rails and COB was visually checked for variation. No variation was observed
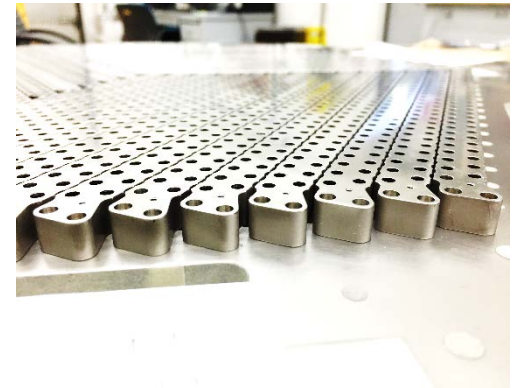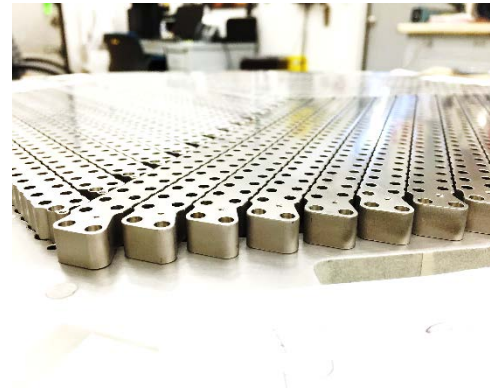
COB with rails #1 - 14

COB with rails #29 - 42

COB with rails #15 - 28

One rail was found to be defective

Perpendicularity of one of the alignment pins is found to be out of spec. This failure must be corrected before assembly.