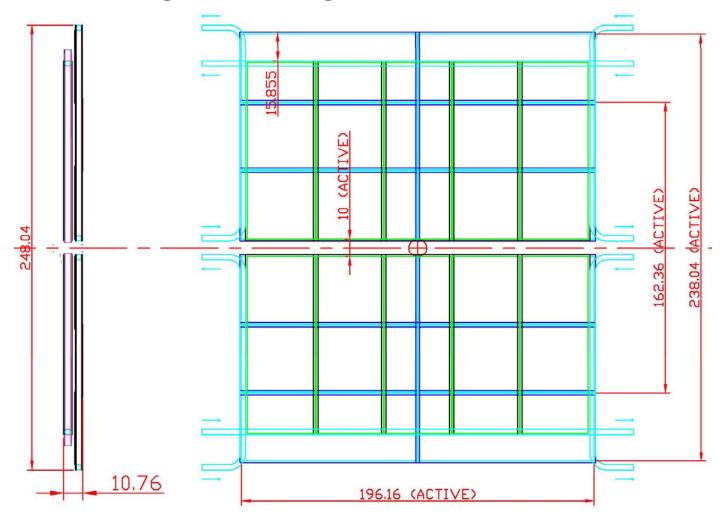
- The downstream region is shown
- Maximum height at cooling tubes = 248 mm.

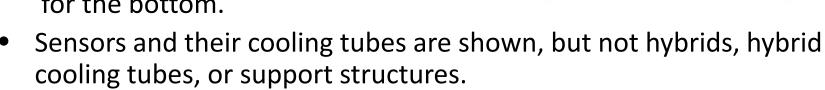


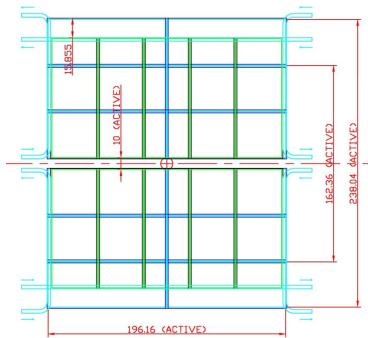
Sensors are located so that active regions overlap 0.5 mm both

horizontally and vertically.

 Twelve sensors run horizontally, ten vertically.

- The gap for beam background is 10 mm from active silicon to active silicon (8 mm from cut edge to cut edge).
- Two identical modules would be made, one for the top and a second for the bottom.





As drawn, the larger sensor planes would occupy 9.8"

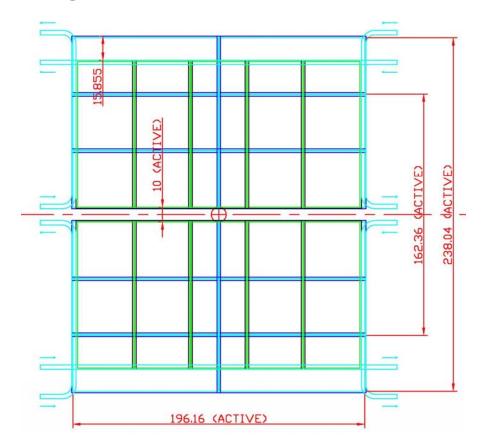
vertically.

 That could be reduced to roughly 8.5" if the uppermost and lowermost sensors running horizontally were eliminated (with a loss of acceptance).

 Clearance and additional support structures will be needed.

 Thickness per plate could be reduced to roughly 3/8" if the plates were trapezoidal so that the enclosure is wider downstream than upstream.

- The bottom line is that, as drawn, the magnet gap would need to be roughly 11".
- Given that some support and vacuum vessel features still need to be investigated, 12" would be more comfortable.



For completeness, a portion of a sensor module side elevation

is shown.

 Horizontal and vertical sensors are supported separately on carbon fiber – foam – carbon fiber cores, then combined to form a module.

- Cooling tubes are imbedded in the core.
- Copper mesh on kapton can be used for grounding and to provide bias connections.
- Portions of the foam and carbon fiber would be cut out to reduce material.
- Details for mechanical connections between planes of a station remain to be determined, as do connections to the outside world.