

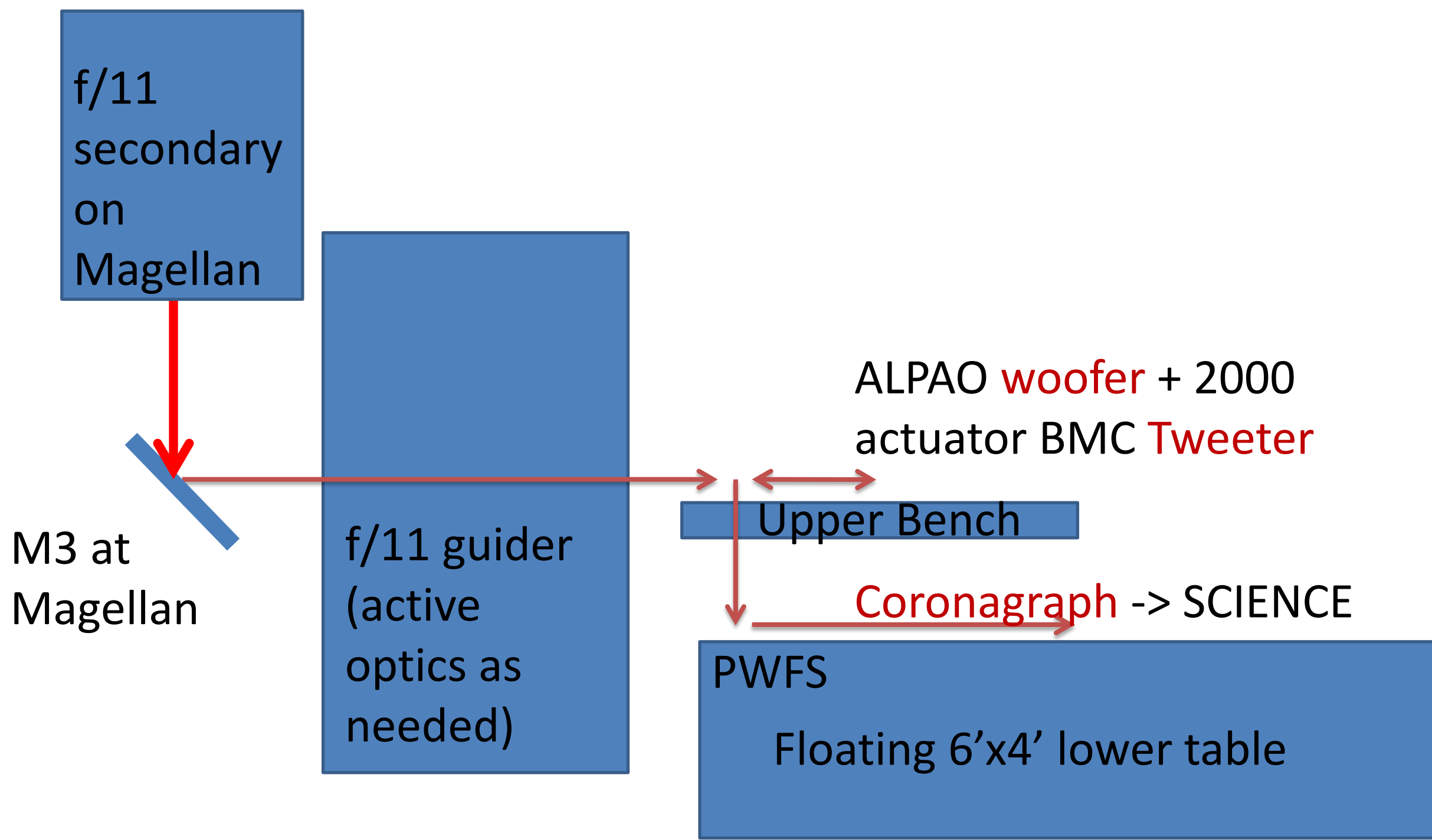
# MagAO-X PDR

## Appendix A2: Mechanical Interface to Magellan

Laird Close

4/18/2017

# Conceptual design of f/11 MagAO-X optics with Coronagraph

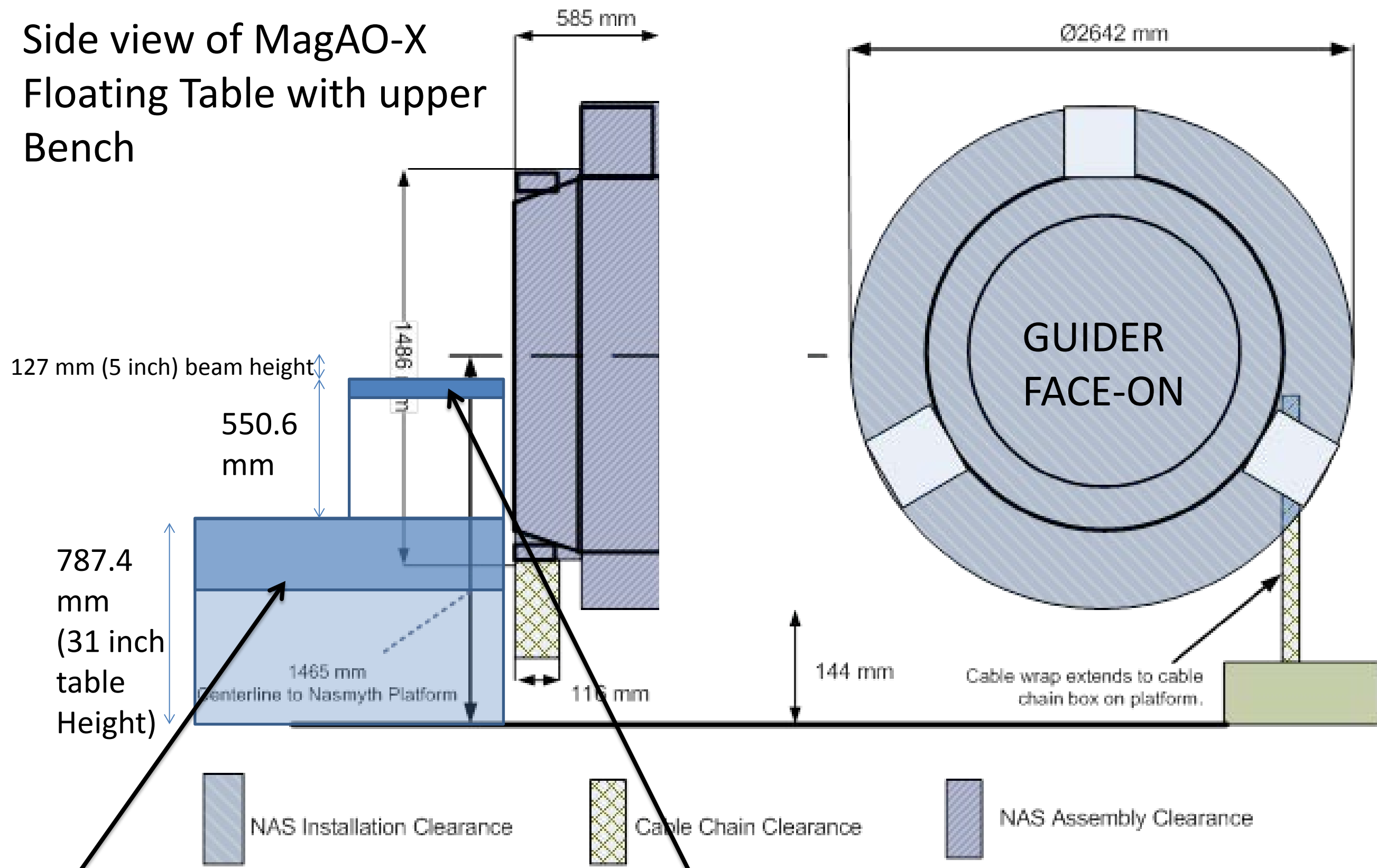


## MagAO-X Summary:

~80% Strehl at 0.65 microns + PIAACMC coronagraph with **Contrasts of  $10^{-5}$  @50 mas and  $10^{-6}$  @150 mas** on a 5<sup>th</sup> mag star in median conditions. Also can feed MKID or RHEA IFS R=60,000 (PI Ireland)

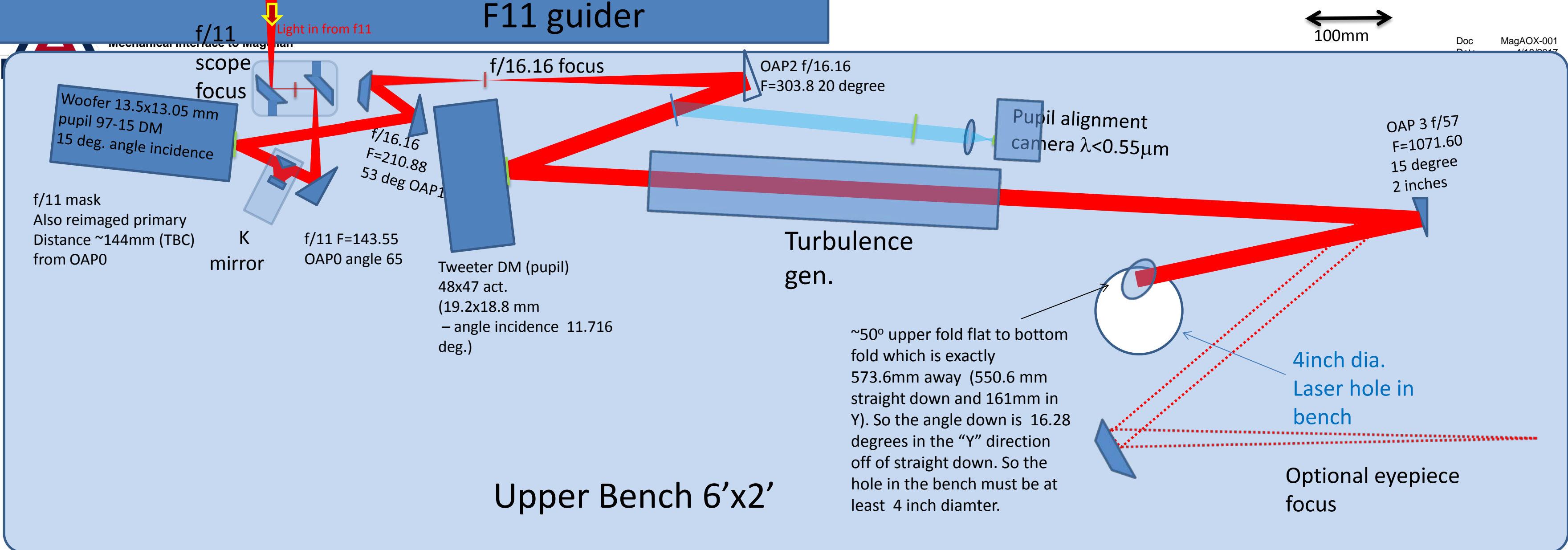
9.6mm air gap between table and f/11 guider

Side view of MagAO-X Floating Table with upper Bench



Lower 6'x4'x1' TMC research grade optical top

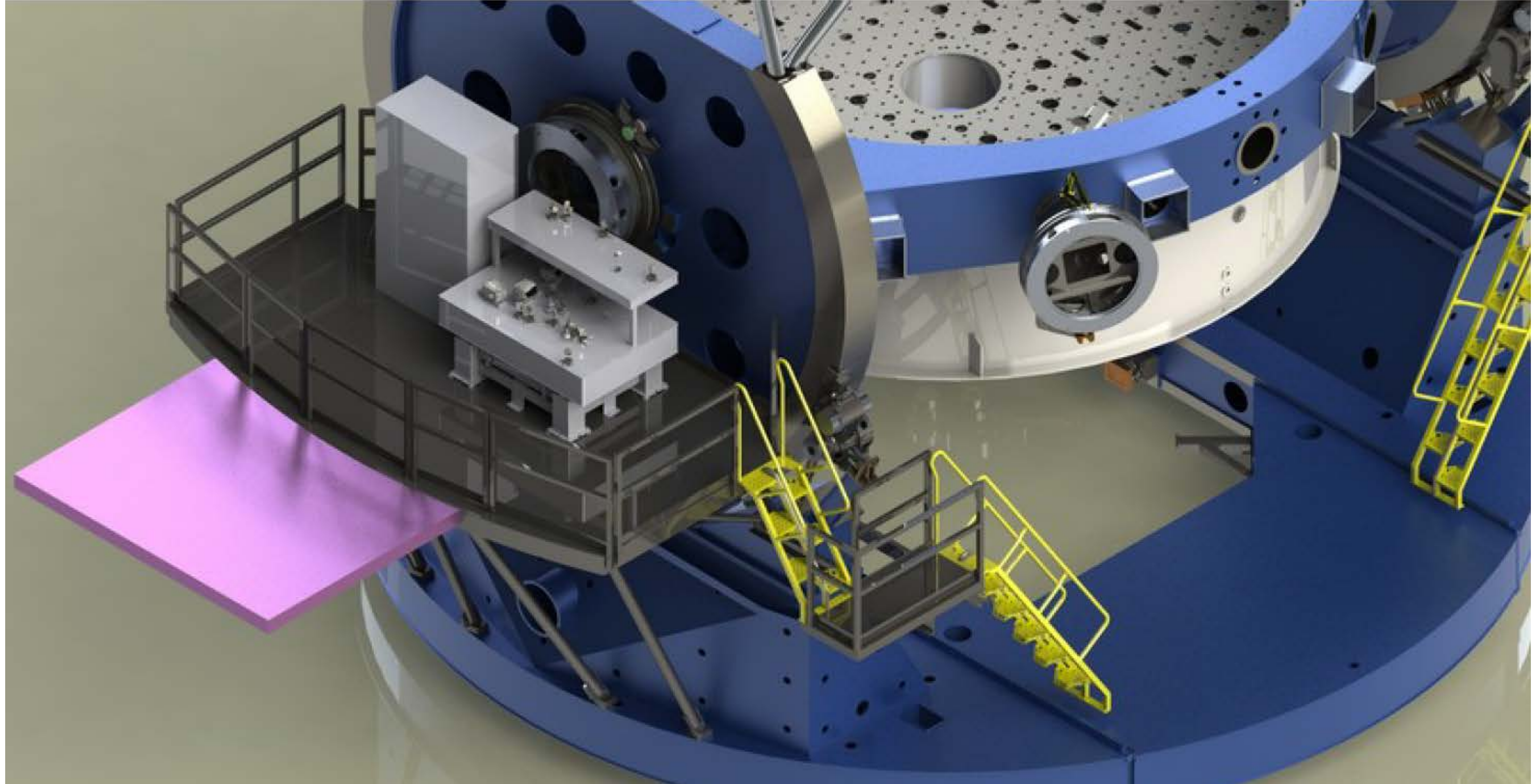
Upper 2'x6'x4" TMC research grade optical breadboard (aligned with Table)



Analytical concept of the f/11 feed to the Woofer and Tweeter on the upper bench



# Completed Design At Magellan



# MagAO-X fits on the NASE

