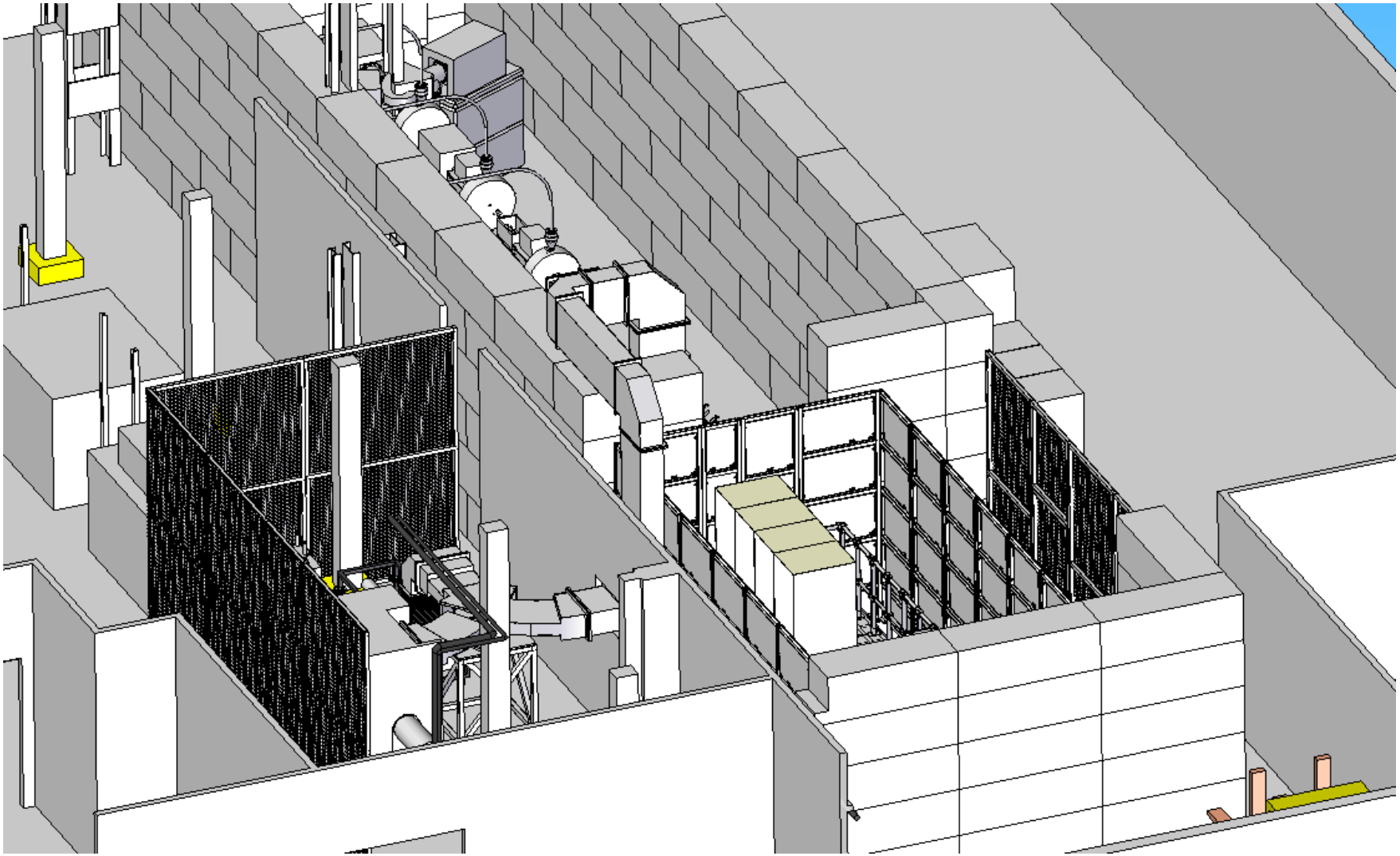
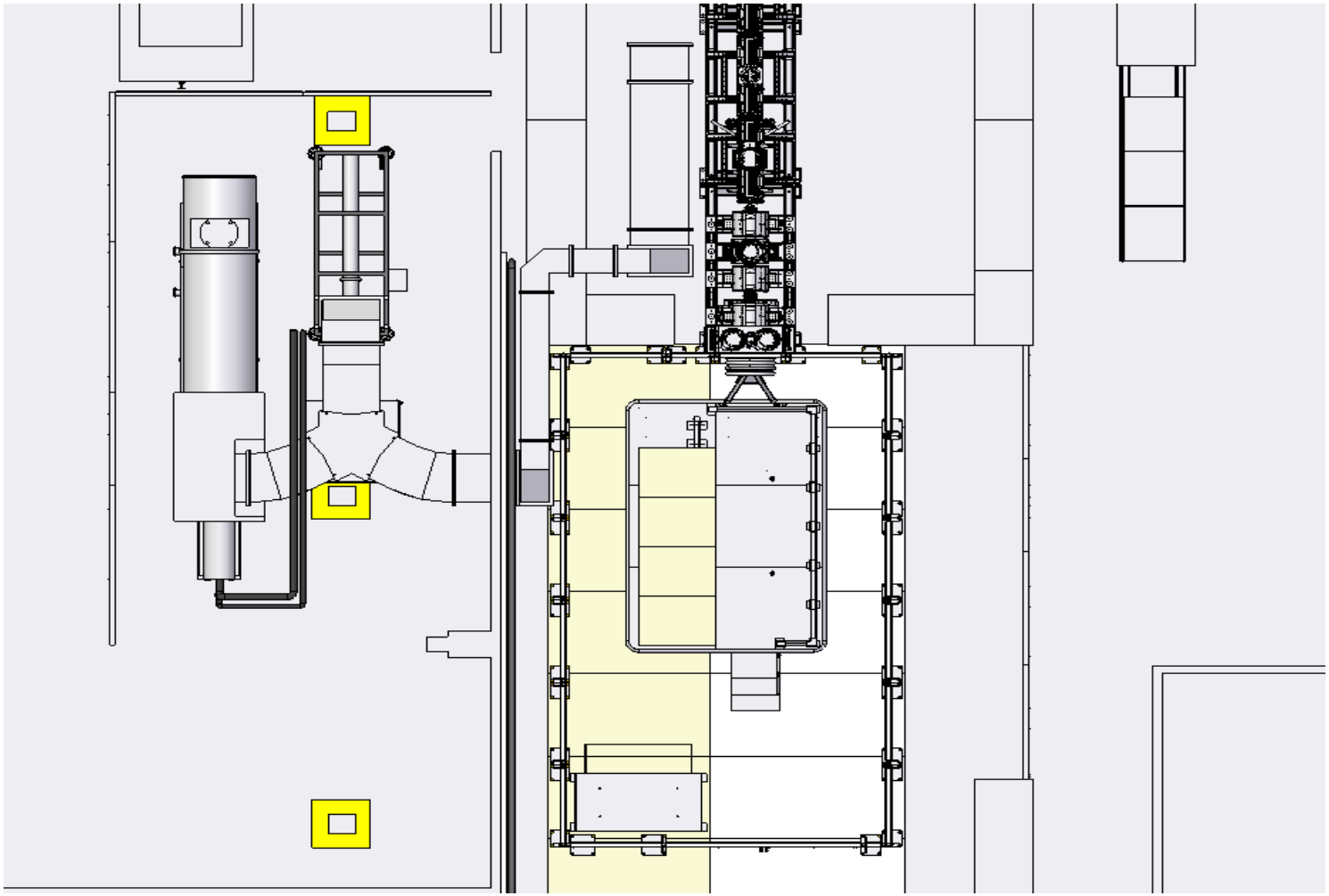
R8 Waveguide Installation and Infrastructure

Wave Guide Route 1



Wave Guide Route 1



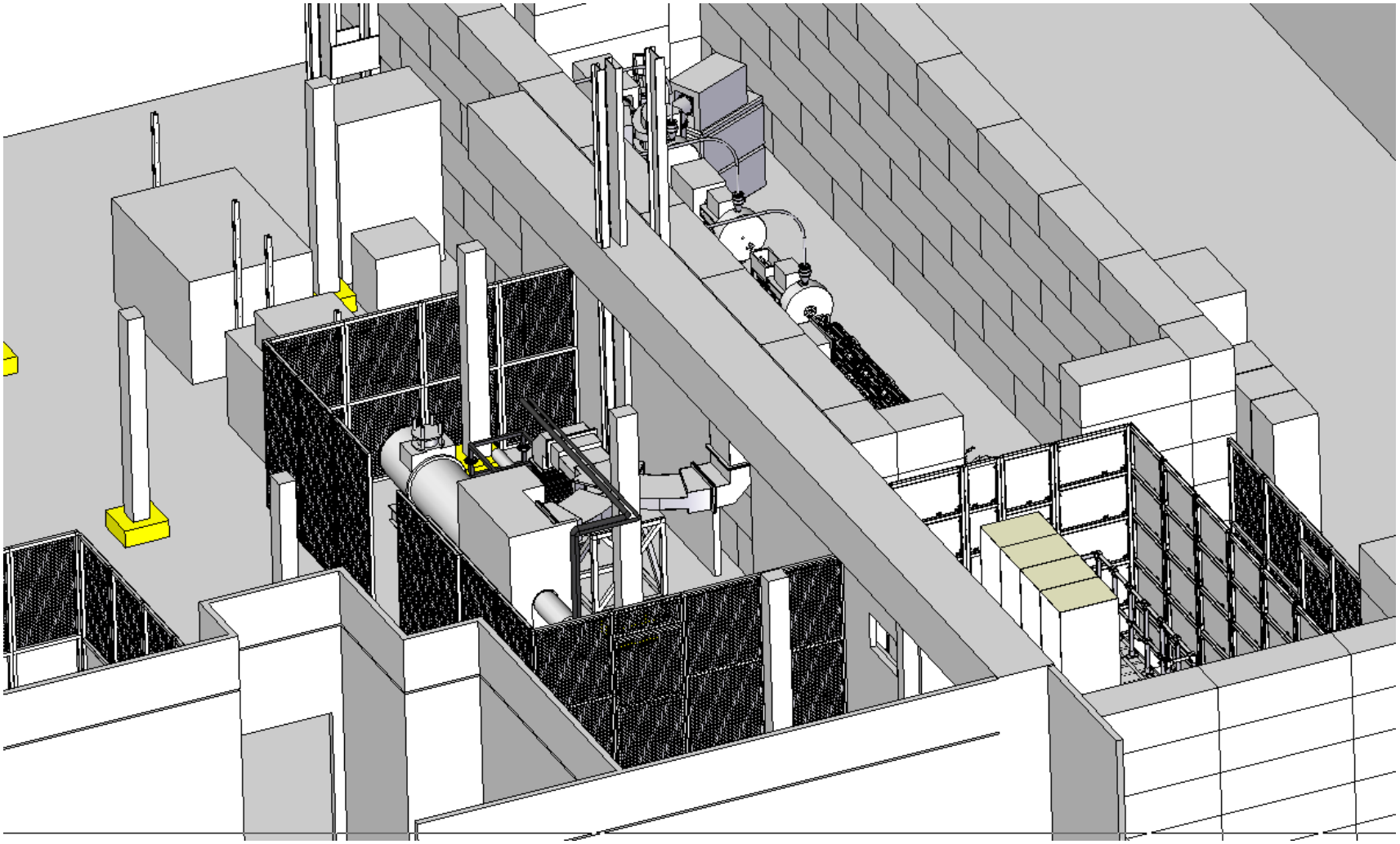
Wave Guide Route 1

- Circulator supported by stand
- Waveguide entry through between partition wall and Cage
- Extends up side of cage and along to shield roof
- Supports will need to be designed for waveguide
- Method of entry through roof to be decided

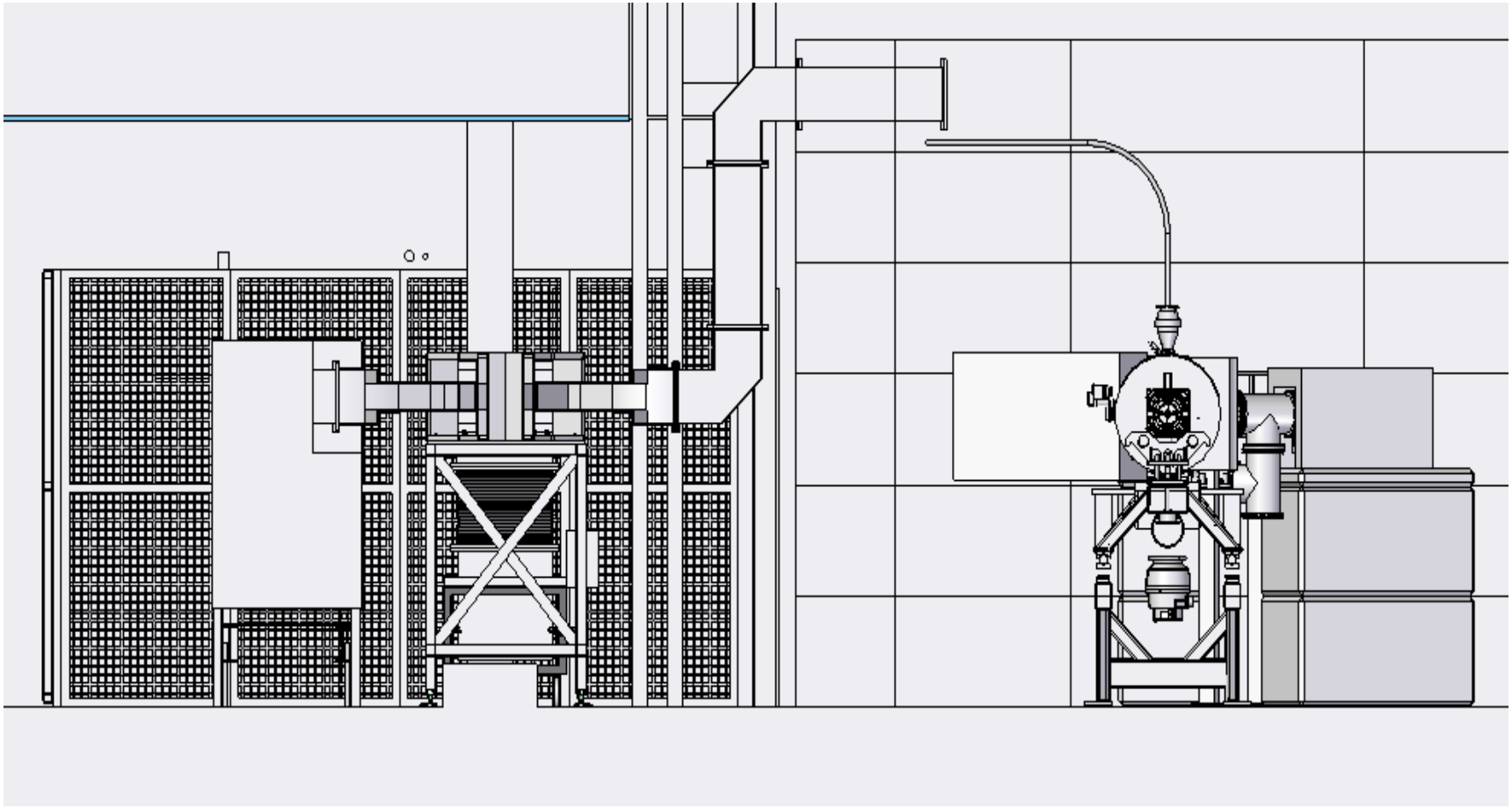
Wave Guide Route 1 Requirements

- Services on cage side of partition wall will need to be relocated
- Access only through roof, not enough room for side entry (269mm between partition wall and shielding)
- Klystron will need to move approx. 330mm to allow support frame and dummy load to fit between pillars. This will necessitate re-plumbing the water lines

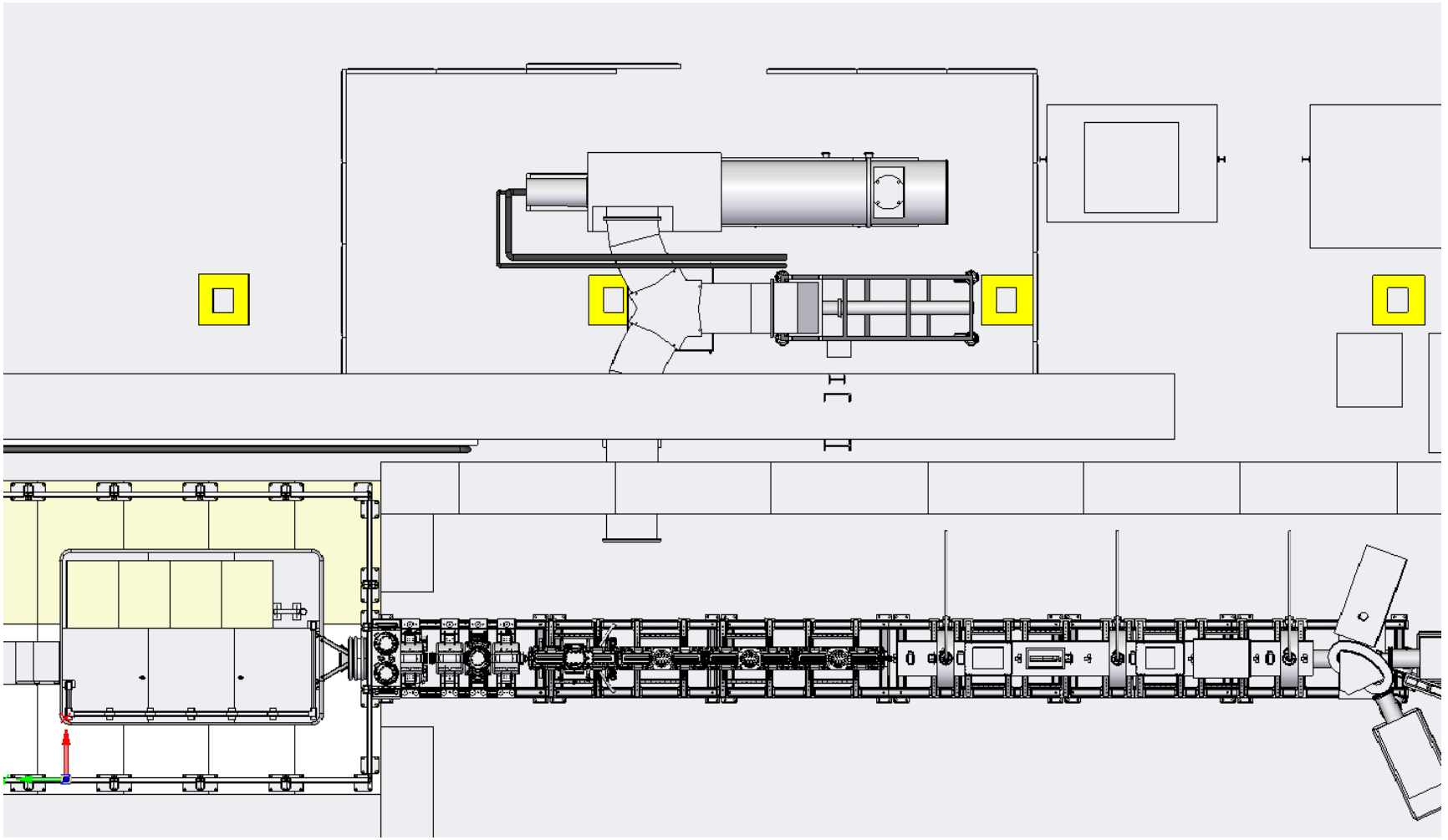
Wave Guide Route 2



Wave Guide Route 2



Wave Guide Route 2



Wave Guide Route 2

- Circulator supported by stand
- Waveguide entry through partition wall and shielding
- Supports will need to be designed for waveguide
- Method of entry through side of shielding to be decided

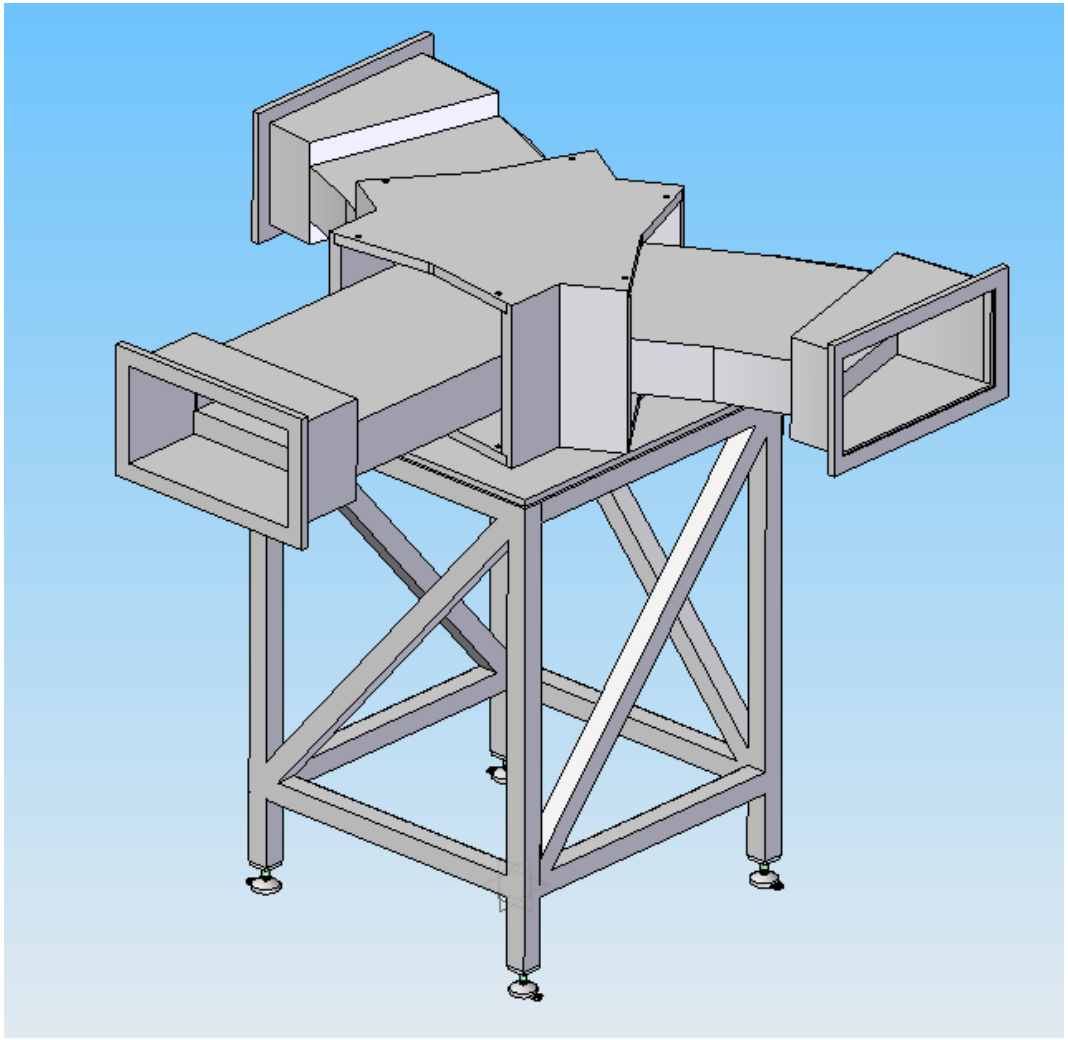
Wave Guide Route 2 Requirements

- No services will need to be relocated
- Access only through side entry
- Major re-location of Klystron will be required This may be offset by improved access into instrument
- Partition wall section removed to allow for access to waveguide

Waveguide Questions

- What is the best option for waveguide route
- How will entry through shielding be achieved in either option, does this impact on NELCO's Design
- How will the transition from waveguide to RFQ be done, do we have the height?

Circulator Stand

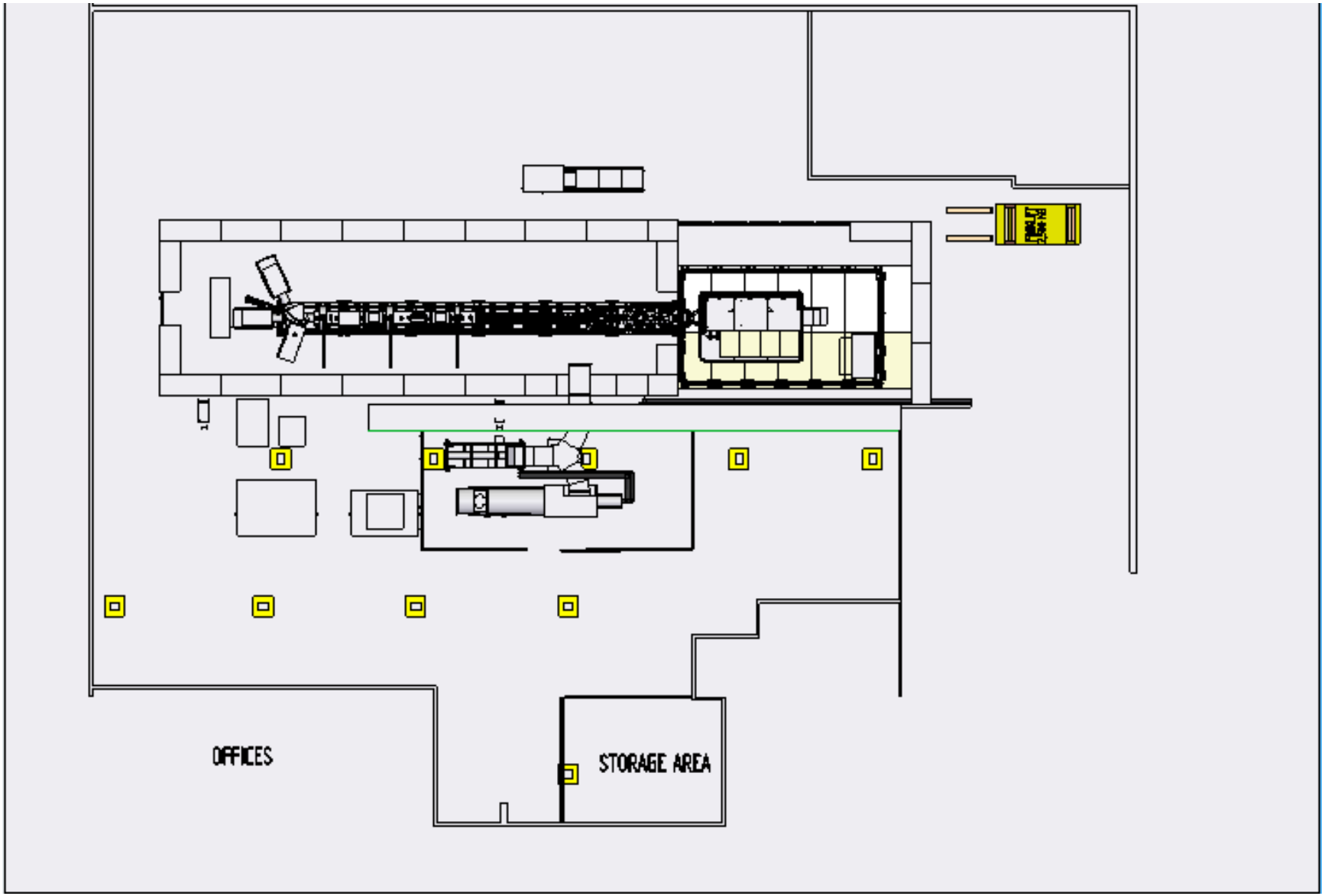


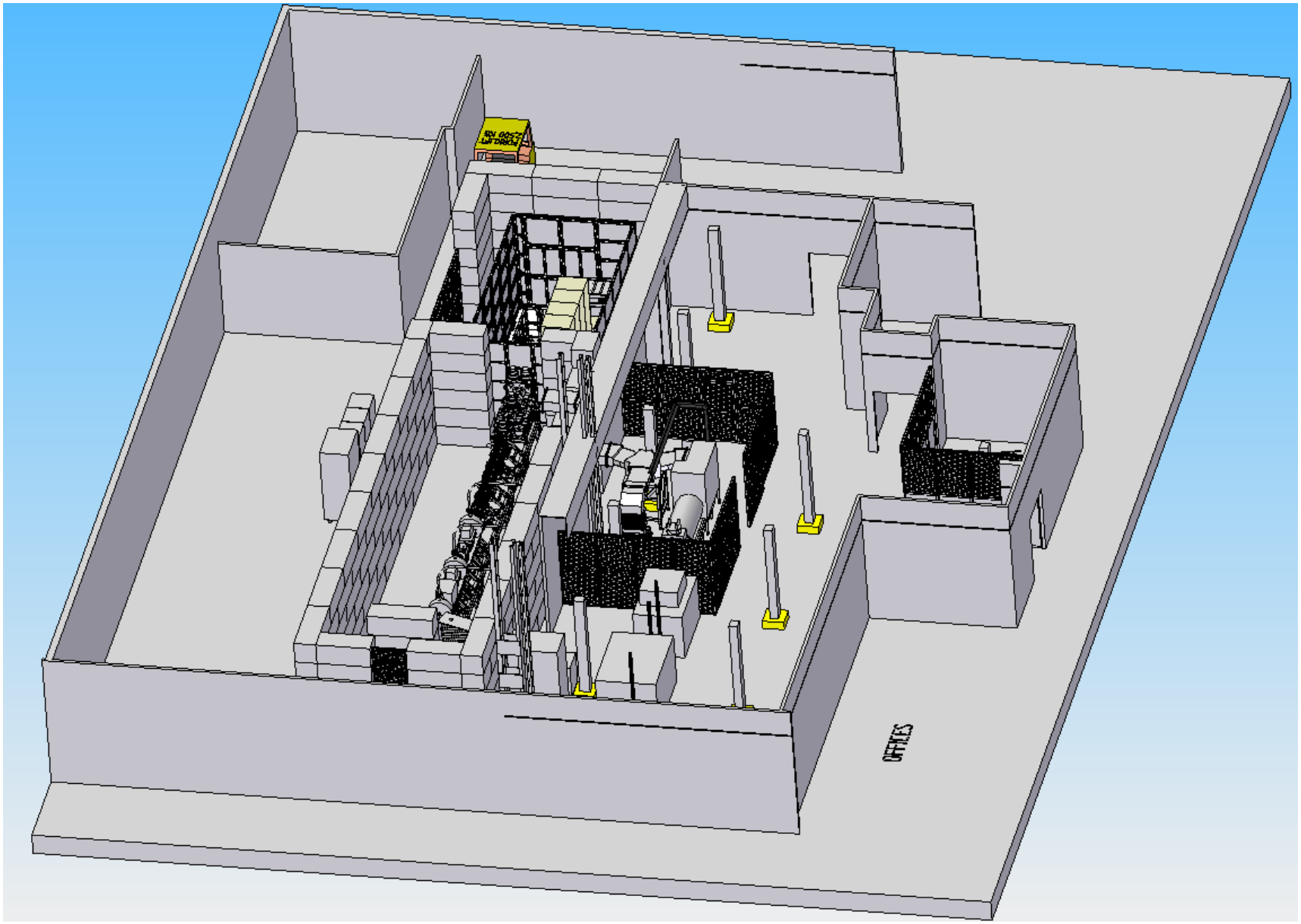
Circulator Test Flanges

- Test flanges are made but require modification to holes. They will be available by week starting 18th February

R8 Infrastructure

- Producing detailed layout of Fet’s will allow us to plan as far in the future as possible. For example looking at the impact and restrictions the installation of the shielding could bring.


OFFICES
STORAGE AREA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