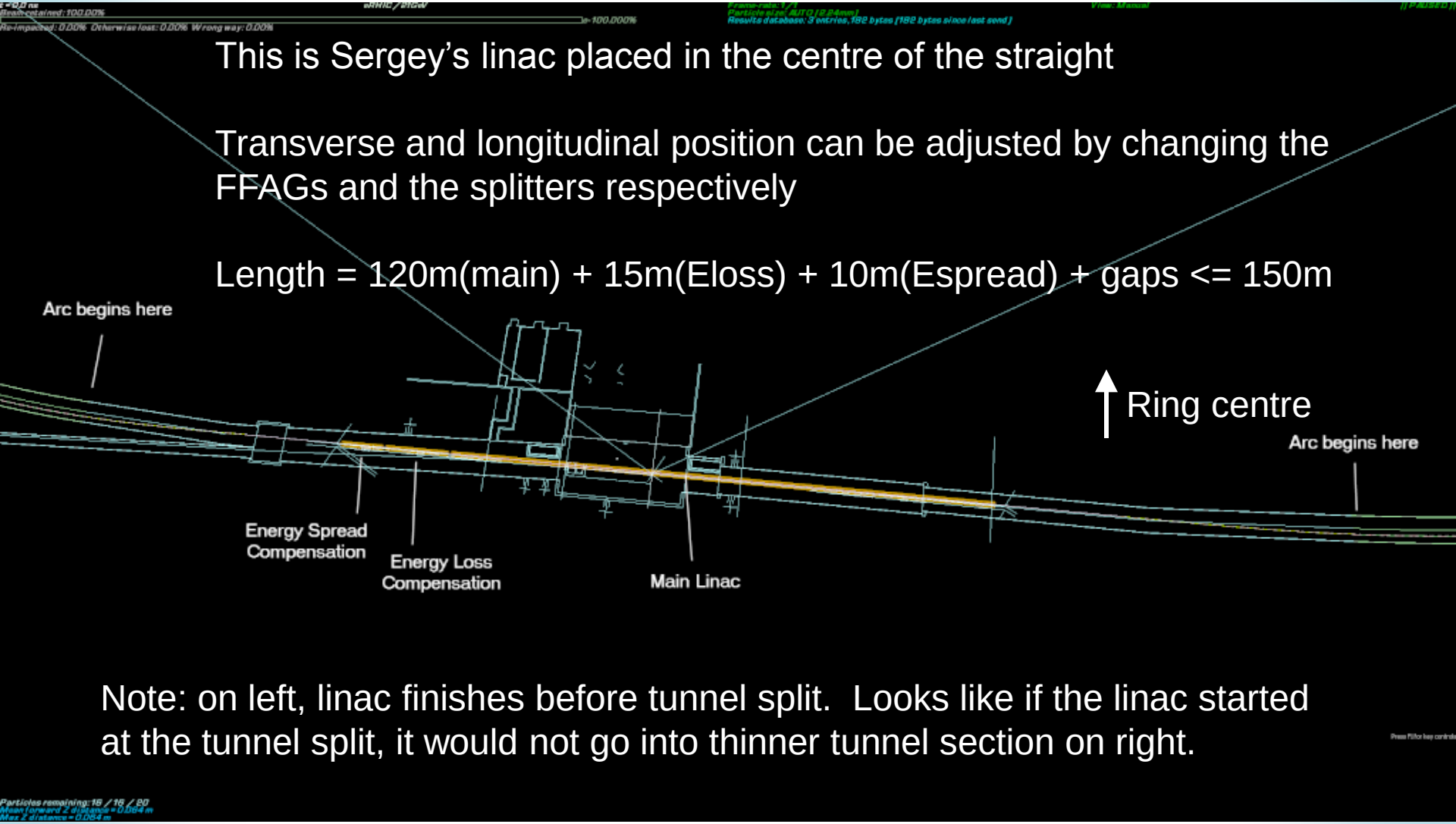
eRHIC Linac in 2 o'clock Tunnel Drawings

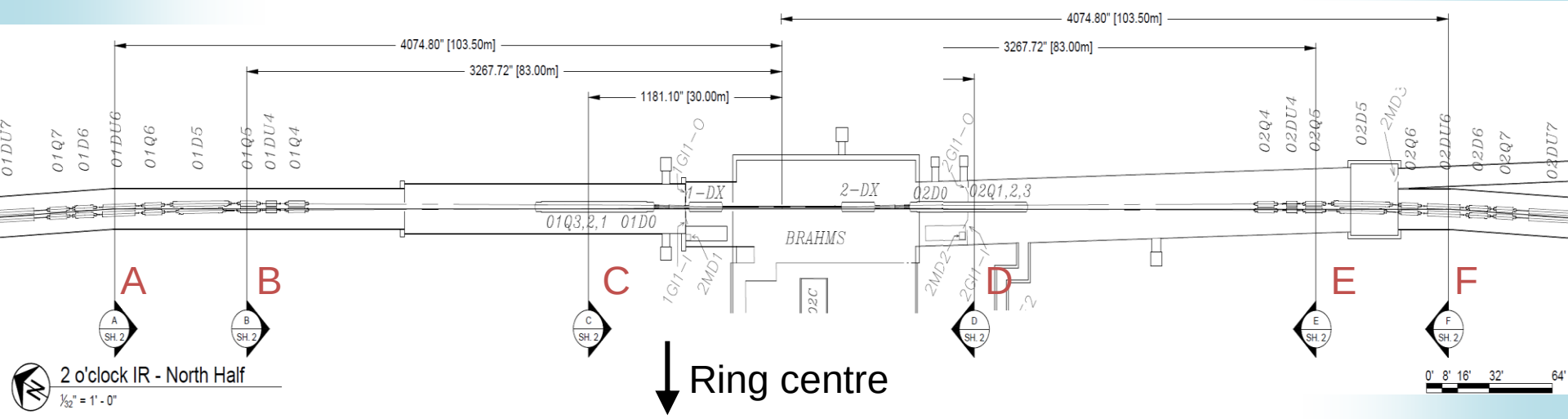
Muon1 Layout on RHIC Tunnel Plan



Note: on left, linac finishes before tunnel split. Looks like if the linac started at the tunnel split, it would not go into thinner tunnel section on right.

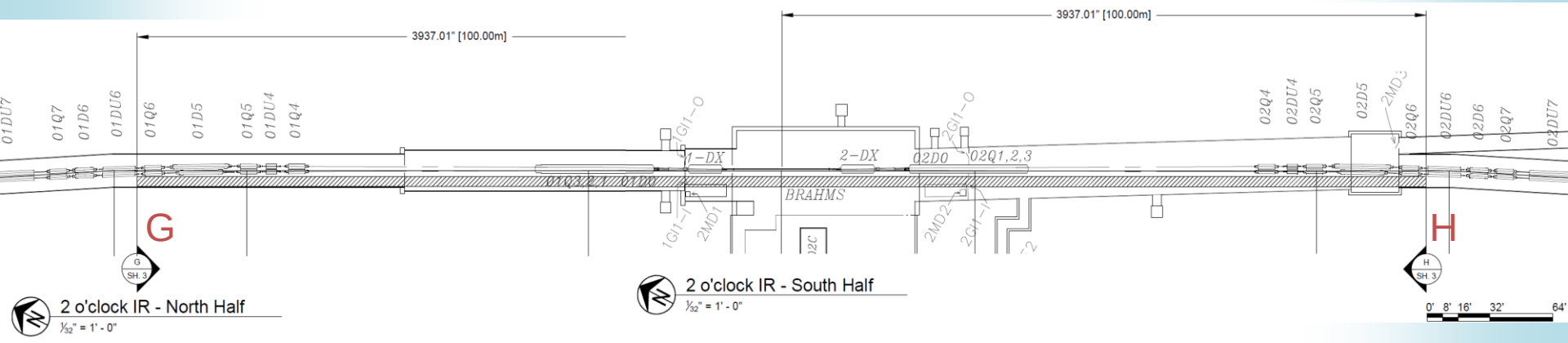
2 o'clock Drawing: Plan View

- Drawing Vadim sent me (other way up)
- True straight section is ±103.5m (207m total)
  - Cross section points A-F
- Followed by angled straight and then arcs



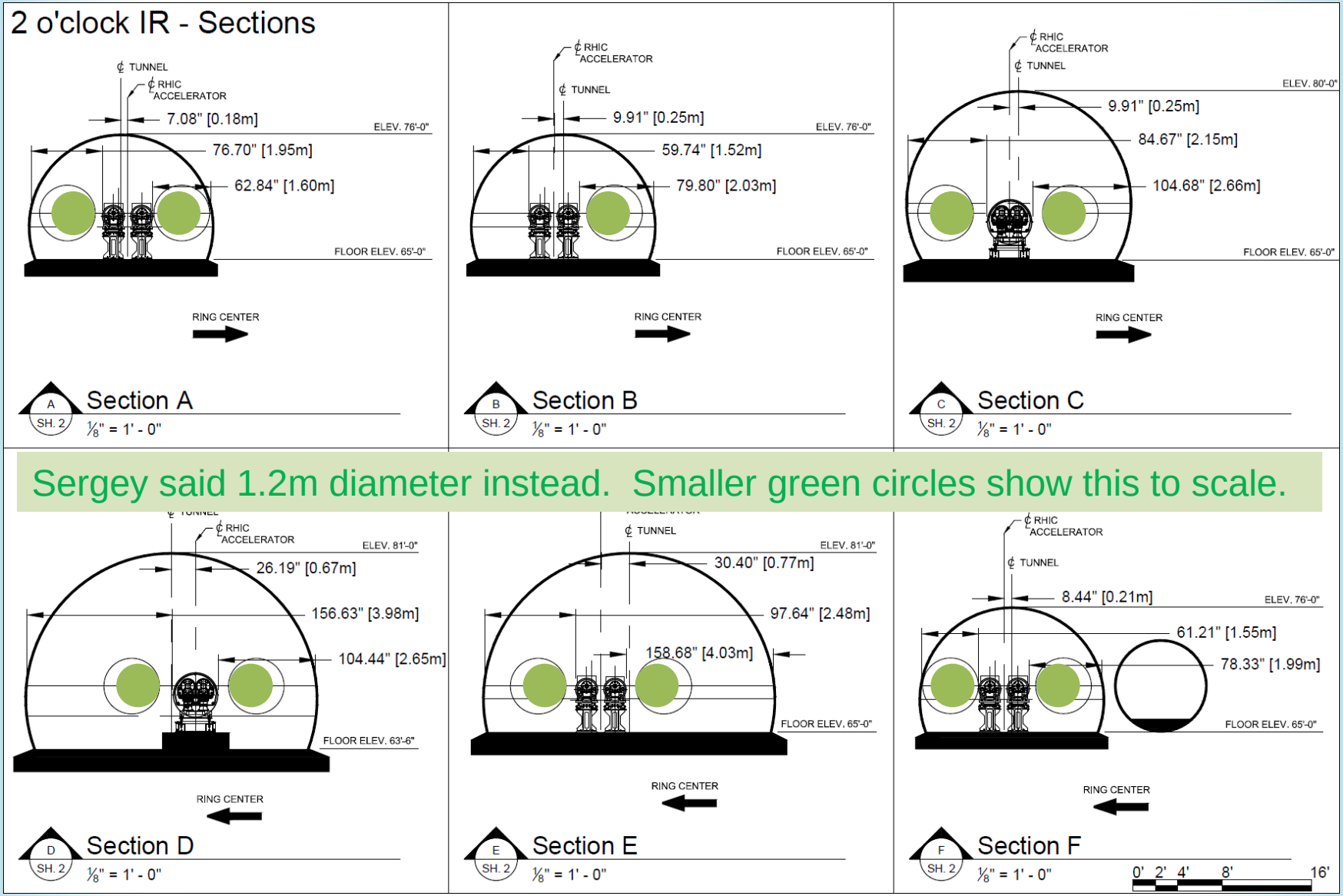
Plan View with Old 200m Linac

- This shows the linac (shaded) was planned to go on the inside of the hadron rings
  - Cross section points G, H are ends of this old linac



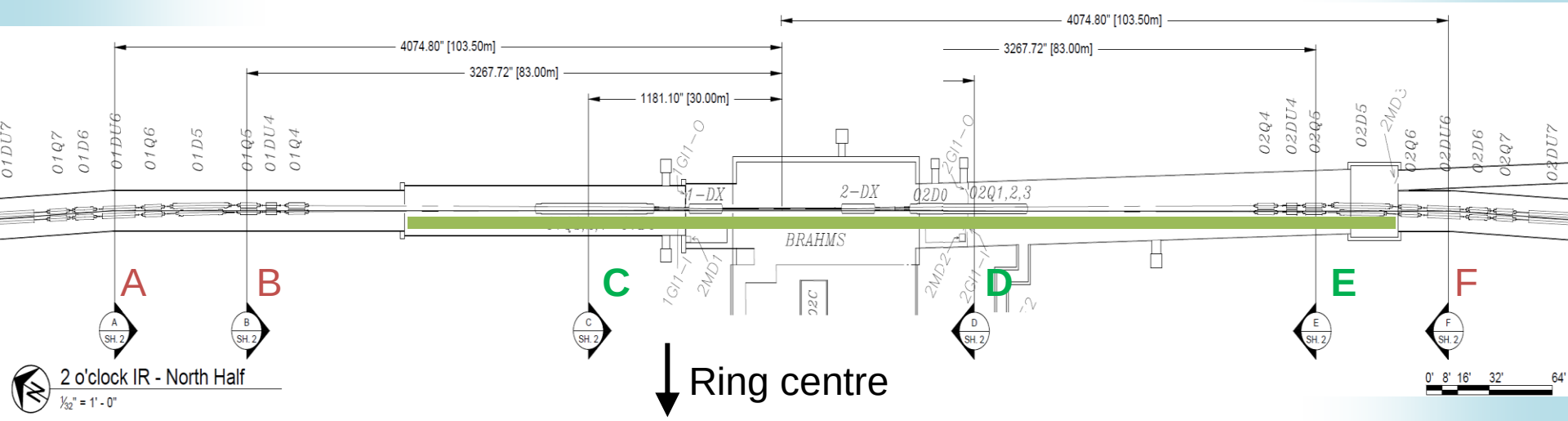
Ring centre

Cross Sections with 1.6m Ø Circles



Locations with Good Cross Section

- Section points **C, D, E** look like they have sufficient room particularly on the inside
- Indicated length is **154m** (from measuring the drawings), possible fit for our <=150m linac



Which is the Yellow Ring?

- Removing the yellow ring may help slightly around inner corner of point E