

# LARIAT DAQ activities

Mike Kordosky

# Organizational meetings

- Had a pair of brief, informal chats about DAQ plans.
- Have conceptual idea of how the DAQ and its components will be organized and work.
- Things discussed (partial list)
  - *artdaq* toolkit
  - v1740 readout class
  - v1495 operations and triggering
  - clocks and synchronization
  - CER and SCINT counters

# Workers & Tasks

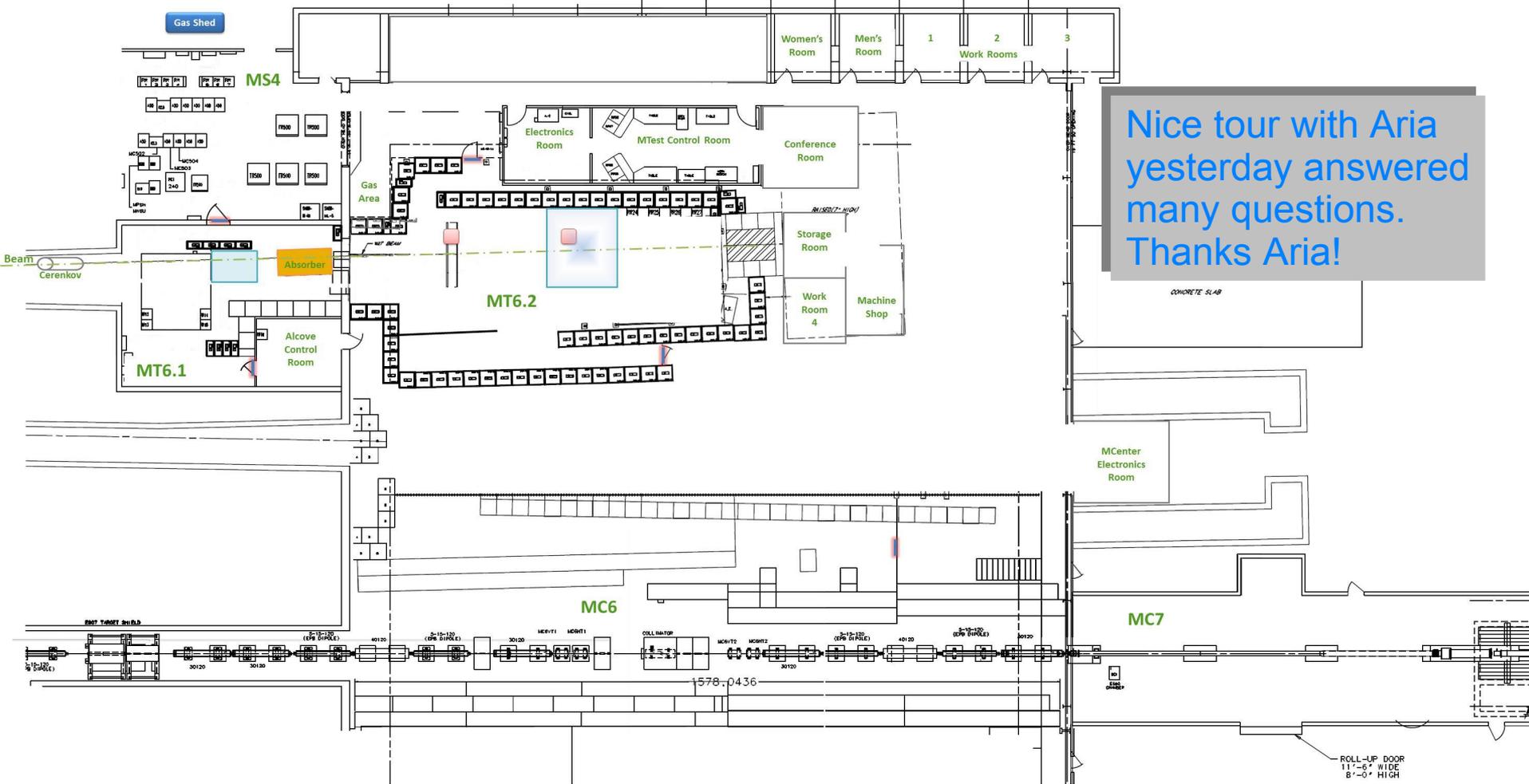
- V1740 development – Bill
- V1495 dev. & testing – Mike
- Counters – Jason
- artdaq toolkit – Jonathan
- PMT readout – Andrzej
- Monitoring – Flor (and slow control?)
- Facilitator in chief – Michelle
- Wire Chambers + TOF – “FTBF”

All names are  
“+ associates”

# Work areas @ Meson

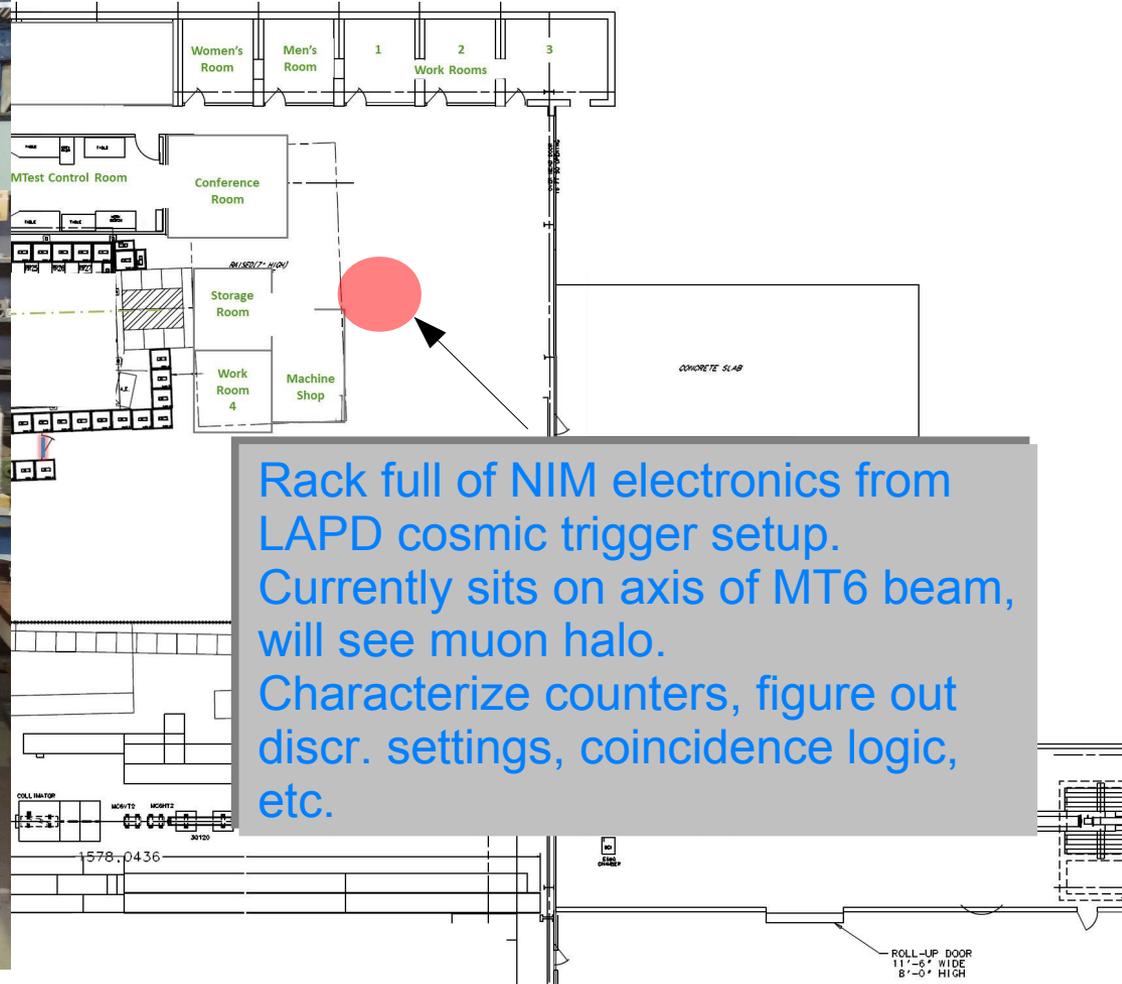


# Meson Building Layout

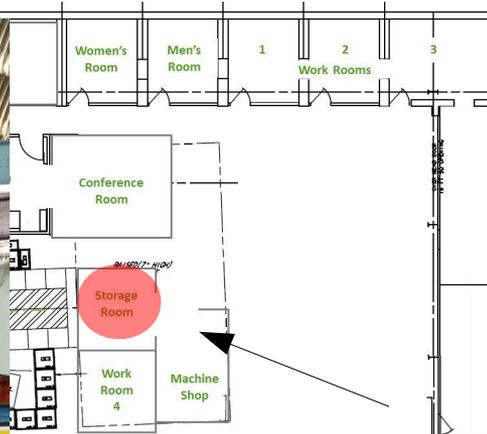


Nice tour with Aria yesterday answered many questions. Thanks Aria!

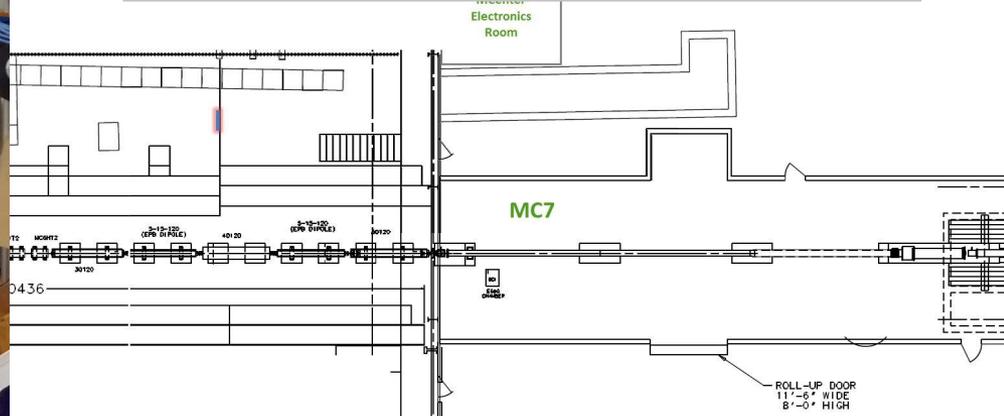
# Counter testing area



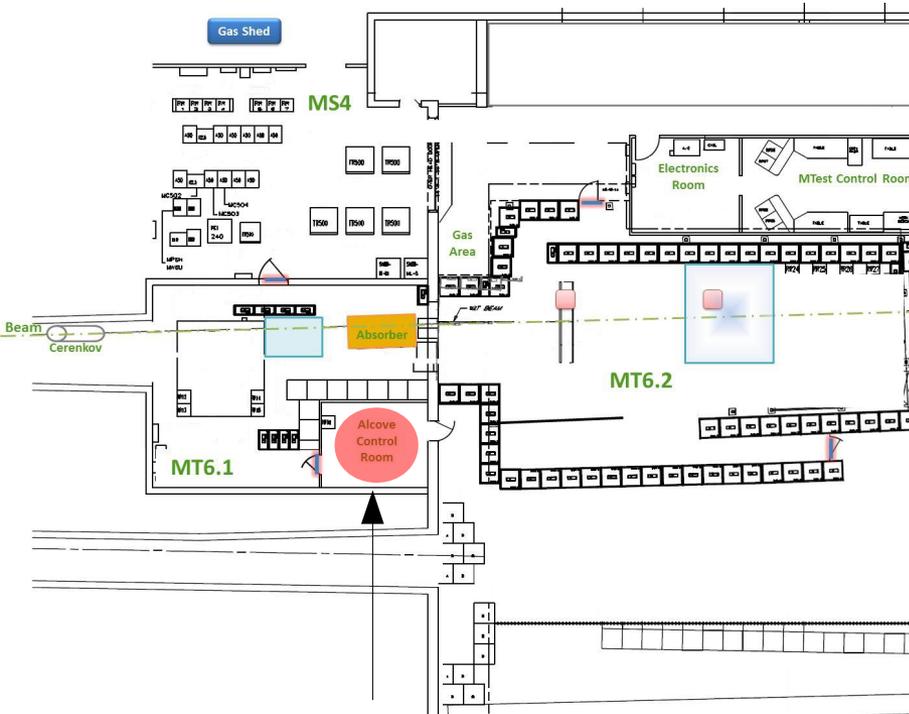
# Counter testing area



This enclosure was offered.  
A little closer and out of traffic.

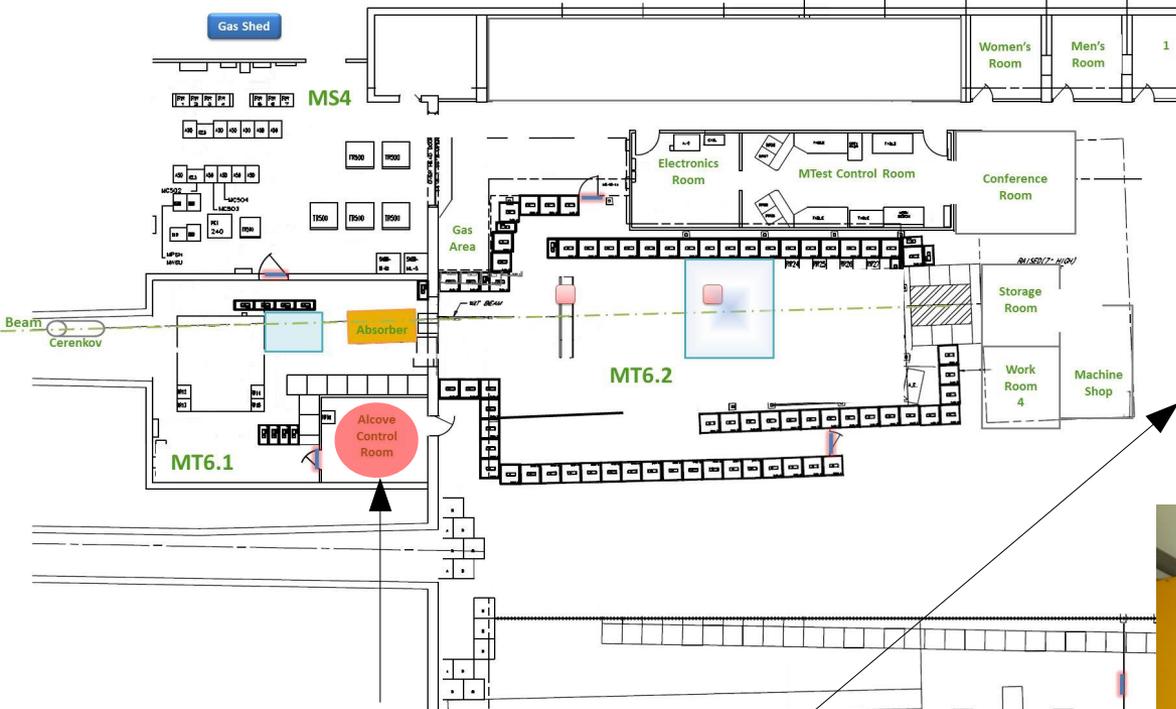


# DAQ development



Alcove Control Room  
2 VME crates  
(1) V1740 + adaptor card  
(2) V1495, V2718 controller  
Each served by it's own DAQ  
computer with PCIe optical link

# DAQ development

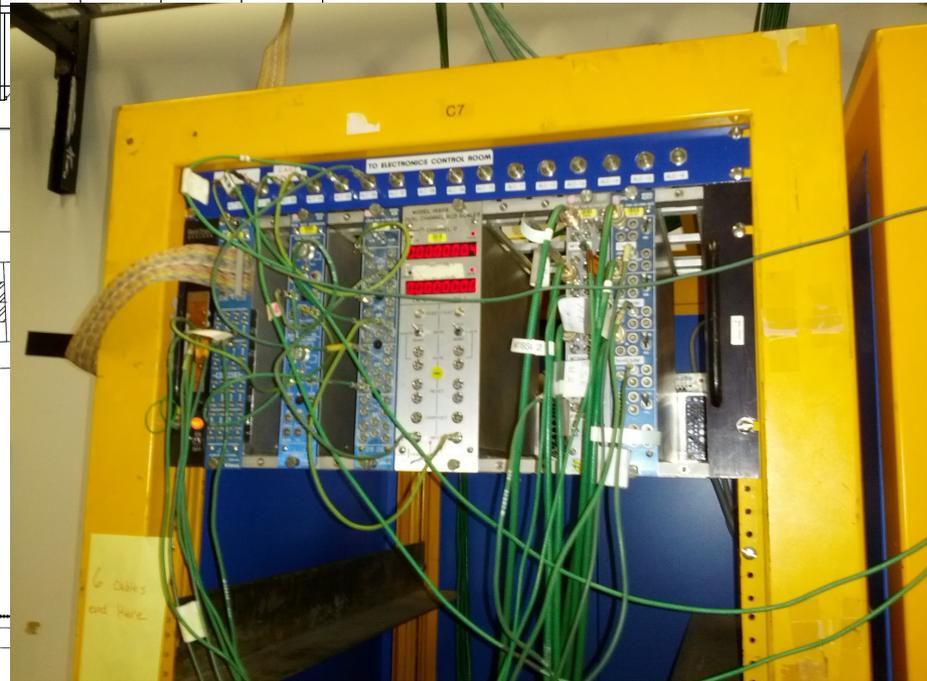
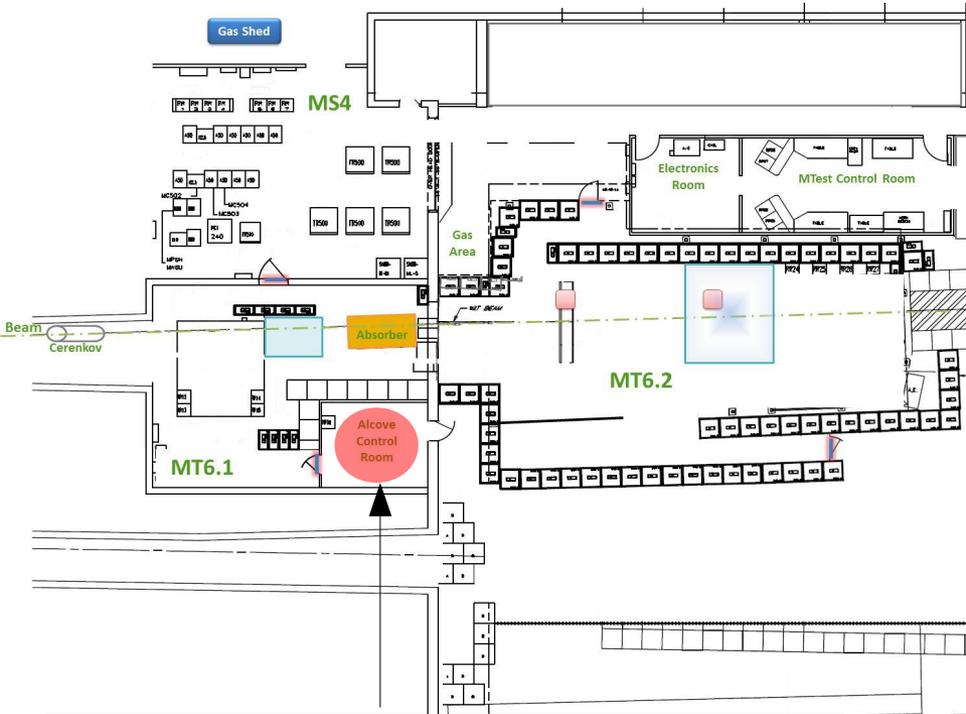


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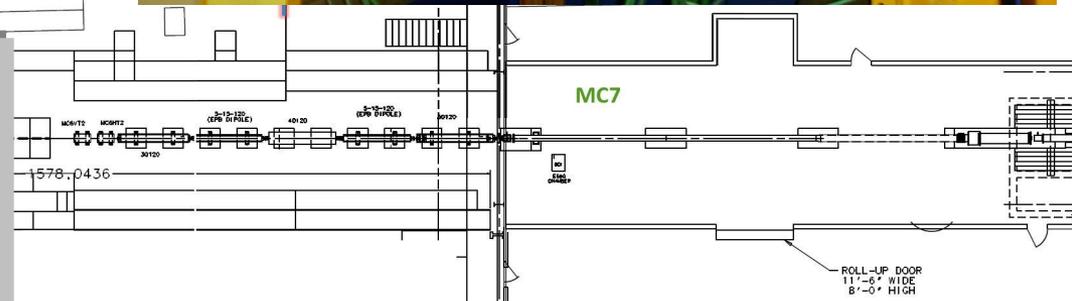
Exactly like W&M setup.  
Thank you 14th floor!!

# DAQ development

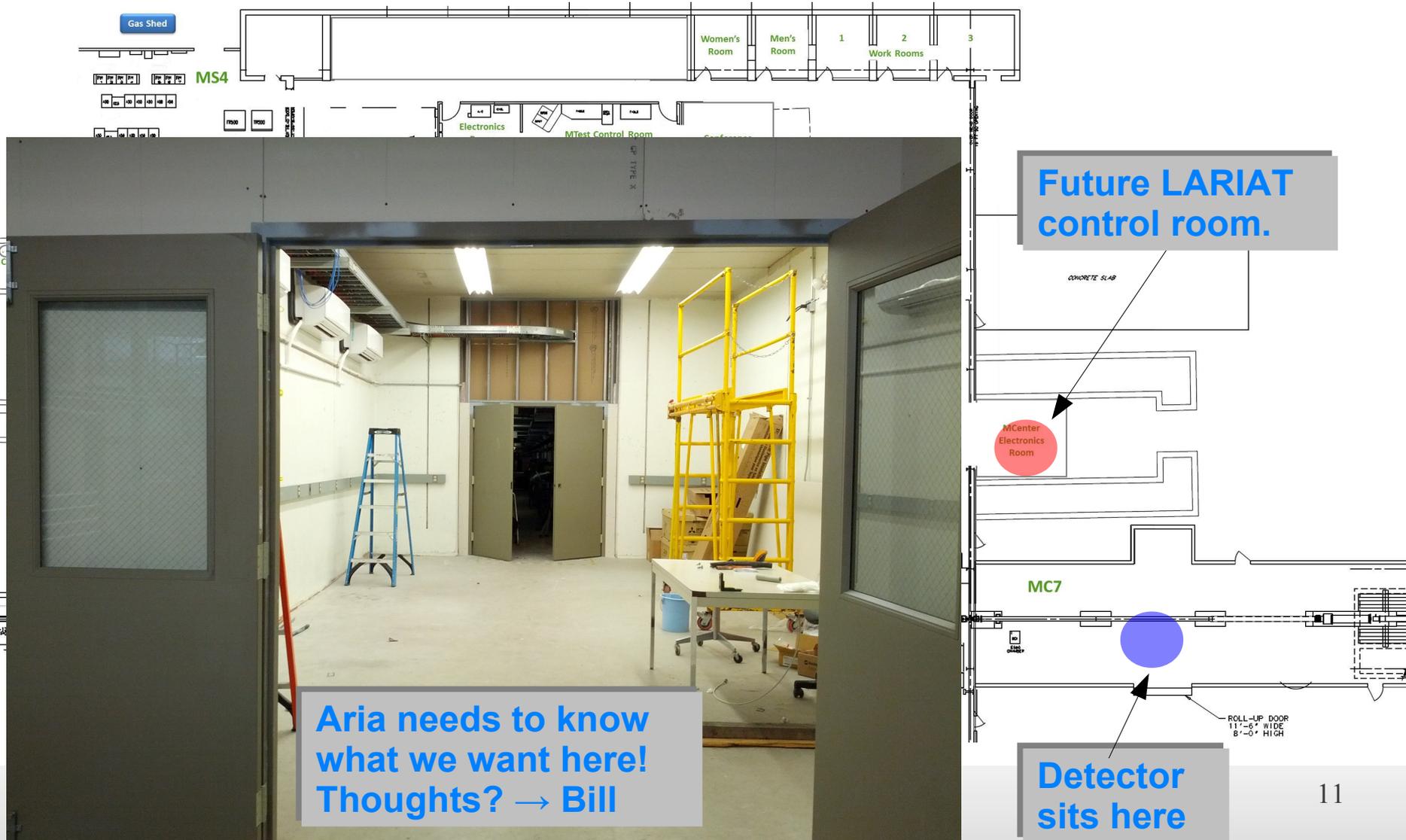


**Discriminated counter outputs available for development!**

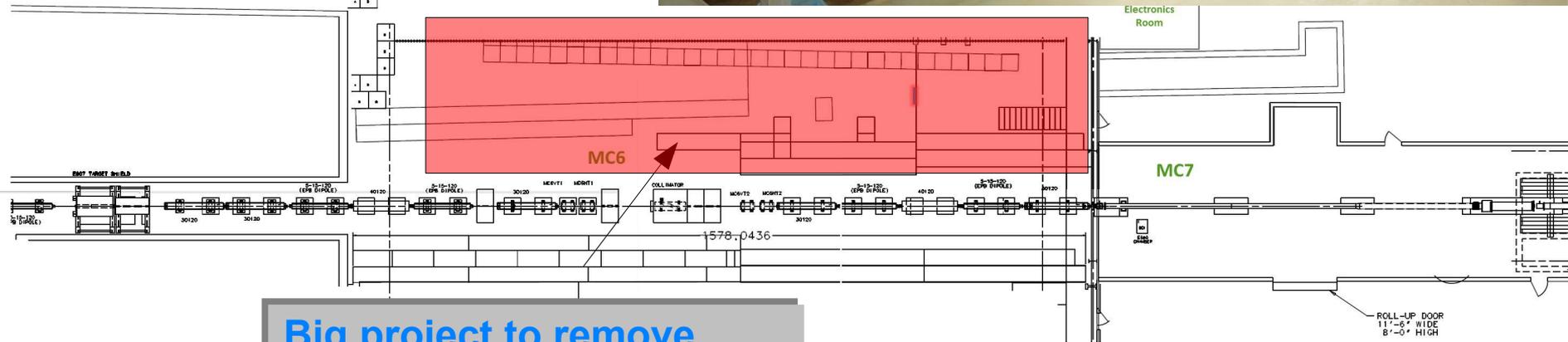
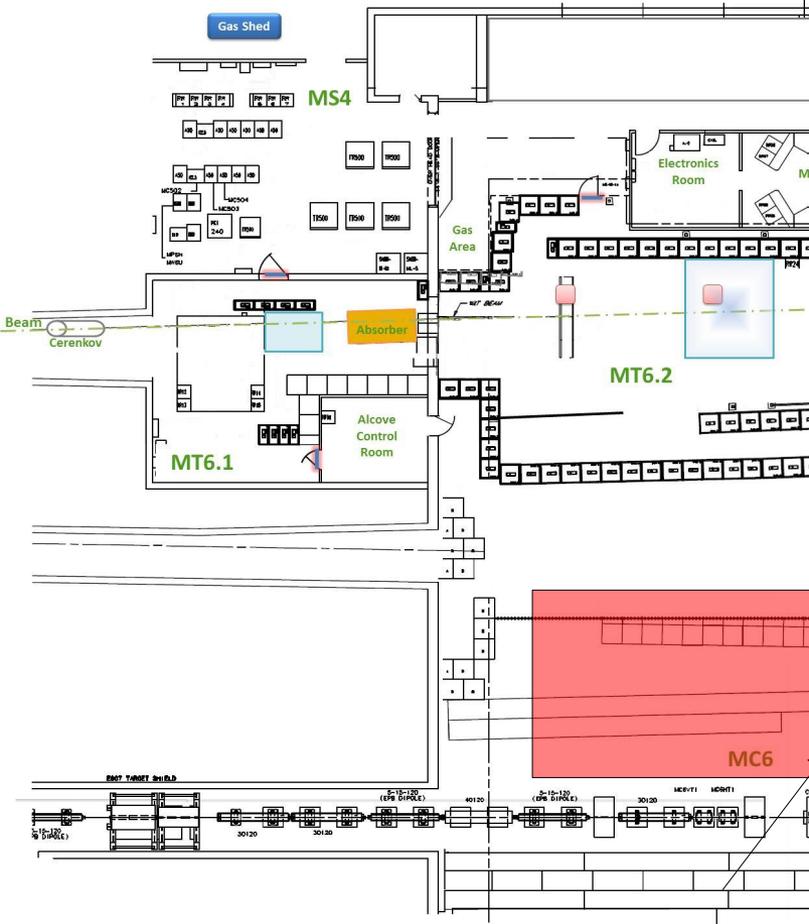
- \* beamline SCI and CER counters
- \* spill start/stop
- \* Wire chambers



# Other sights



# Other sights



**Big project to remove shielding and repair MC6 magnets starting soon**

# Near term plans

- Begin commissioning counters. Make test setup as close to the “real thing” as possible.
- Get W&M firmware onto V1495, use it to count beamline signals and look for coincidences. Standalone VME readout.
- artdaq toolkit – 1st major goal = configure & readout 1495
- 1740 development in parallel