



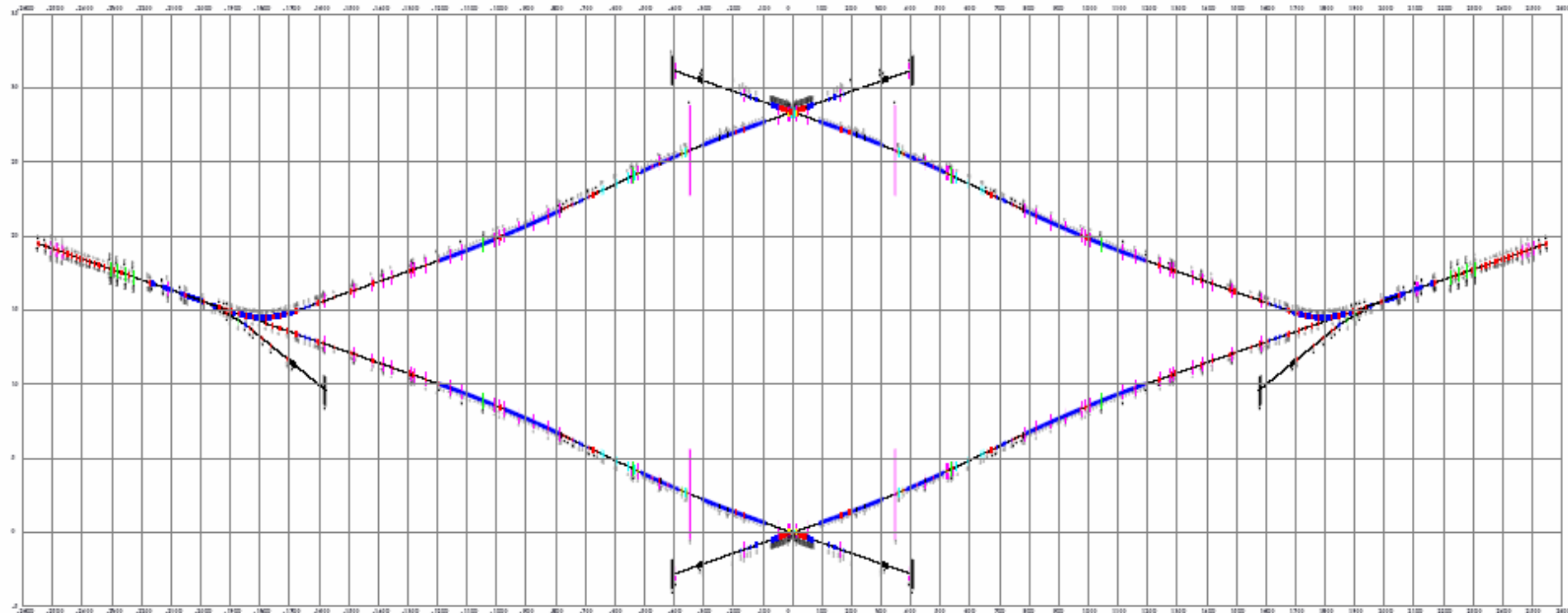
Updates since Vancouver on BDS and MDI

LCD Study Group meeting at SLAC

August 17

Andrei Seryi

- CCR (configuration change request) submitted for 14/14 configuration with single collider hall at $z=0$
 - **under review now by CCB (Change Control Board)**
- Under discussion: CCR for on surface detector assembly
- Under discussion: CCR for changing two muon walls (9m+18m) to single 5m muon wall



- About 5.1km from end to end
- 28.4m transverse separation of IPs
- Shortening the extraction lines is being implemented



On-surface (a la CMS) assembly

- According to tentative CF&S schedule, the detector hall is ready for detector assembly after 4y11m after project start
- If so, cannot fit into the goal of “7years until first beam” and “8years until physics run”
- Surface assembly allows to save 2-2.5 years and allows to fit into this goal



MDI panel meeting

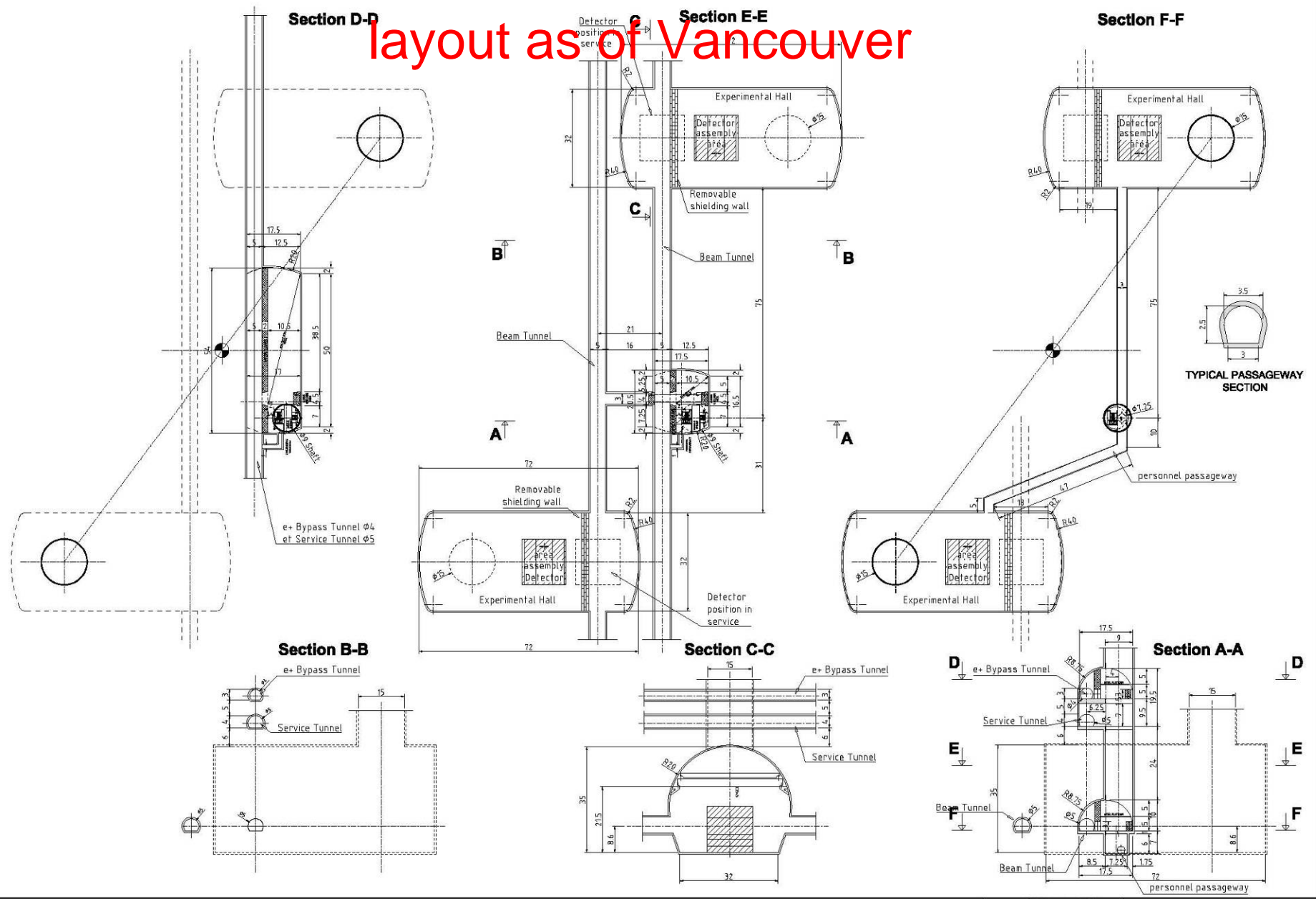
- Meeting of MDI panel on August 15
<http://ilcagenda.cern.ch/conferenceDisplay.py?confId=1060>
- Questions discussed
 - **14/14 configuration**
 - **single collider hall**
 - **on-surface assembly**
 - **5m muon spoilers**
- The MDI panel accepted those changes. The conclusions will be sent to WWS and CCB



Cost savings under discussion

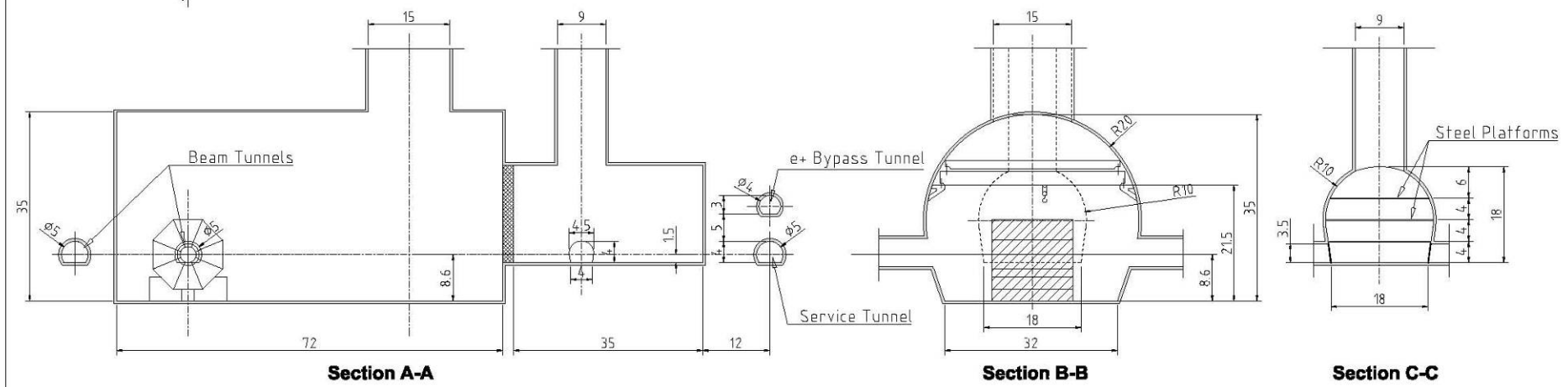
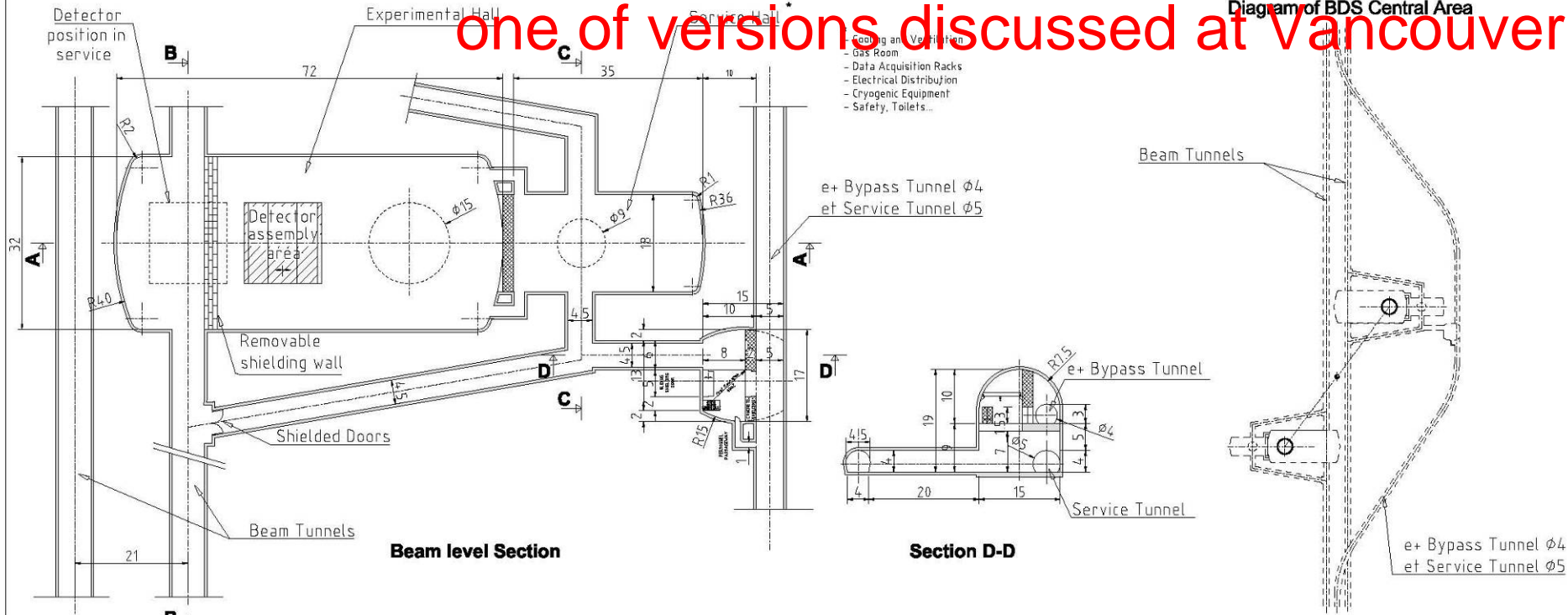
- Re-evaluating the cost of service tunnel (in BDS as well as in linac)
- Considering 4m tunnel in BDS and alcoves
- Tentatively, assumed 30W*100L*35H single collider hall
 - **reducing the size and number of access shafts can give savings**
 - **next pages shows layout discussed at Vancouver**

Layout as of Vancouver



one of versions discussed at Vancouver

Diagram of BDS Central Area



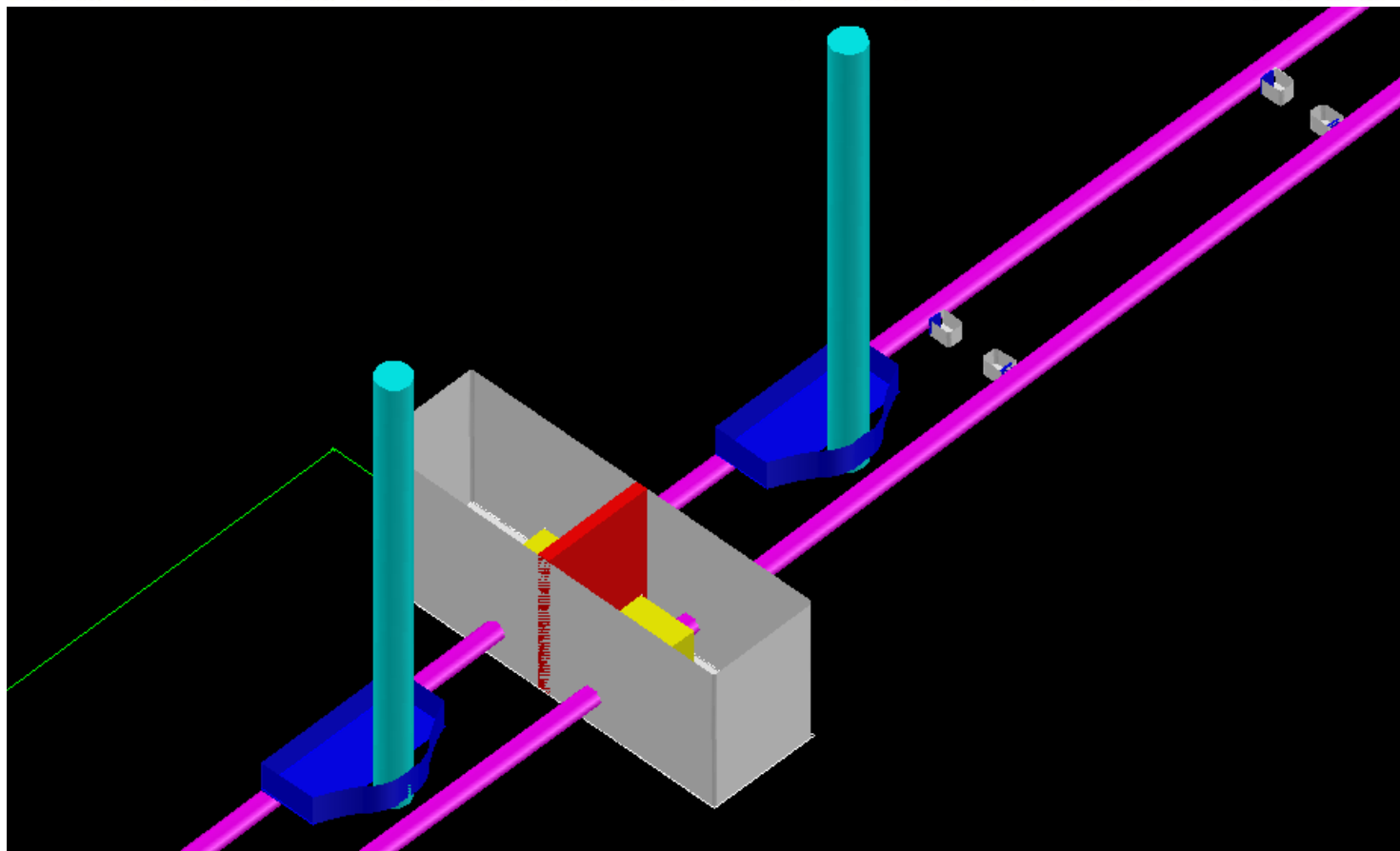
ILC - BDS - EXPERIMENTAL HALL AREA _ ALTERNATIVE "B"

EUROPEAN REGION

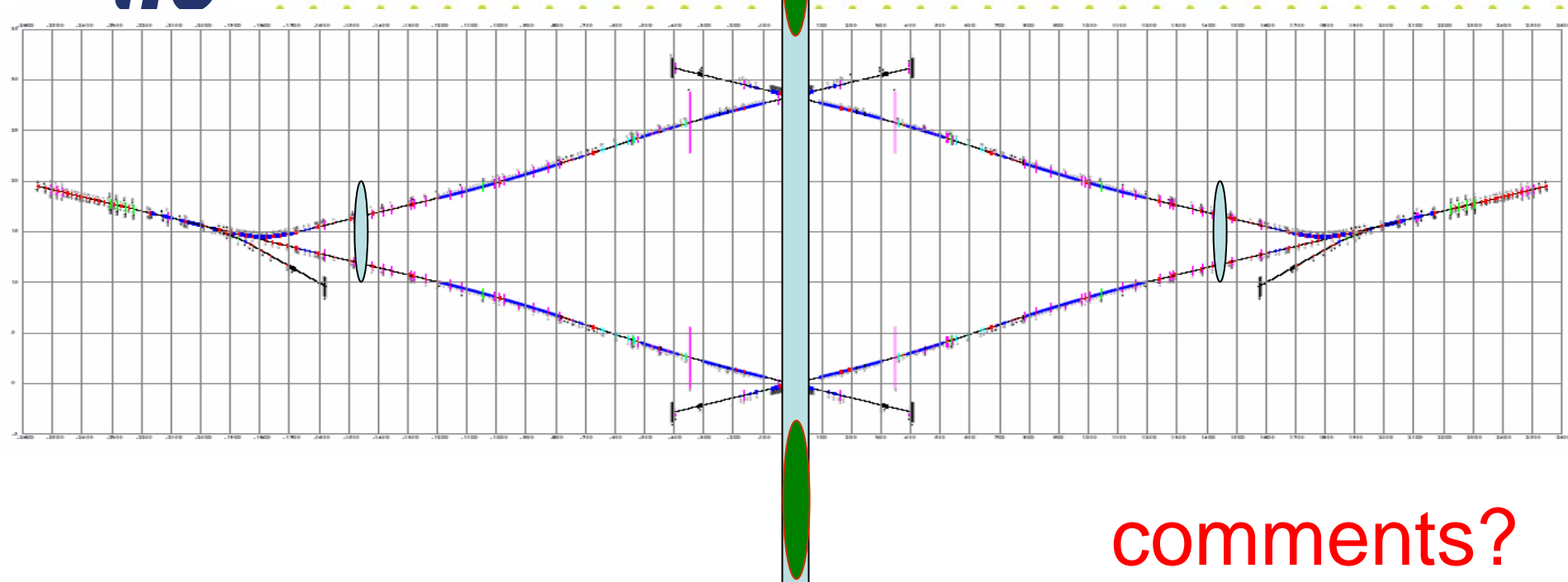


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SCALE : 1/500(A2_FORMAT) DATE : 04_JULY_2006
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- Discussing moving out the 9m shafts to BSY
- Equipping the 15m detector hall shafts with elevators for personnel



comments?

- 4m tunnels in BDS with alcoves, no service tunnel
- tentatively, 30W*100L*35H single hall
- e+ bypass ignored
- 9m shafts in BSY for accelerator
- 15m shafts in detector hall with elevators & stairs
- no cover on top of 15m shafts
- no additional detector caverns for equipment