

#### MuCool Test Area

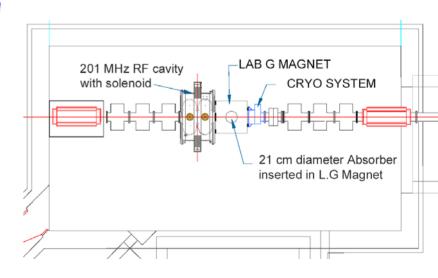
400 MeV High-Intensity Proton Beam line



#### MuCool Test Area (MTA)



- Facility to test all components of cooling channel (not a test of ionization cooling)
  - \* At high beam power
    - ▲ Designed to accommodate full Linac Beam
    - ▲ 1.6 X 10<sup>13</sup> p/pulse @15 Hz
      - 2.4 X 10<sup>14</sup> p/s
      - ≈ 600 W into 35 cm LH<sub>2</sub> absorber @ 400 MeV
  - RF power from Linac (201 and 805 MHz test stands)
    - ▲ Waveguides pipe power to MTA





#### MuCool Test Area (MTA)

- Construction of facility slightly ahead of schedule
- Beneficial occupancy is expected to be in September
- First Use
  - Convective LH<sub>2</sub>
     absorber tests
- 201 and 805 MHz RF testing towards end of FY 04
  - Installation of LH<sub>2</sub> and LHe systems in FY 04 depends on funding
- Beam to area in FY 06



Status as of May 20



### Friday MuCool Meeting



# MUCOOL Test Facility Status Report

Milorad Popovic
Project Manager
May-03



## MuCool Site, 2-May-03







### RF Trench



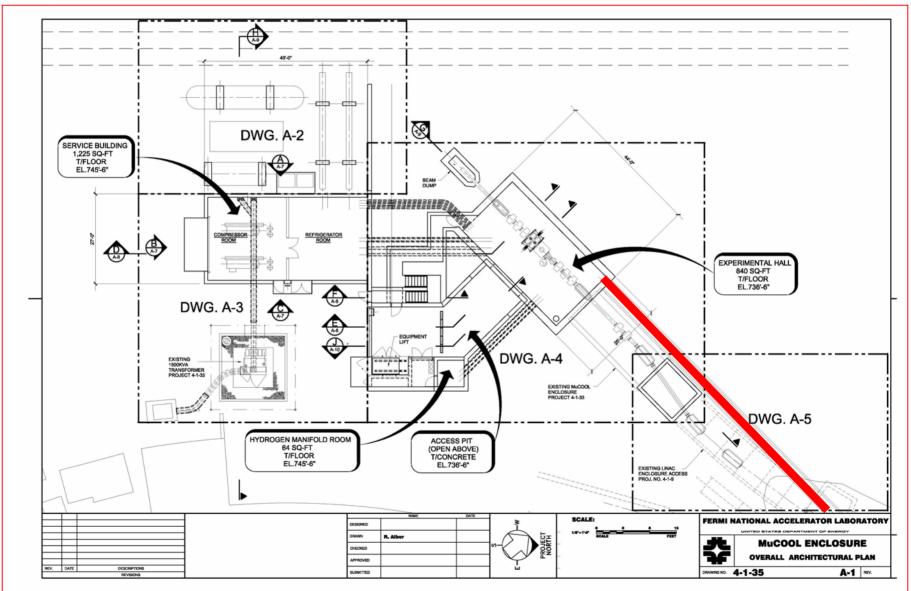






### MuCool Site Plan, as May-03







#### RF Trench & Linac



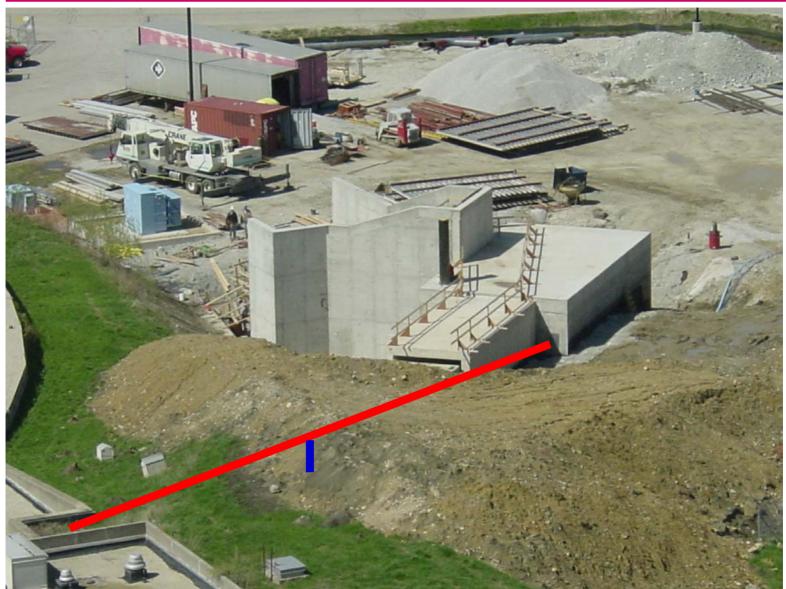






#### RF Trench & Linac Berm

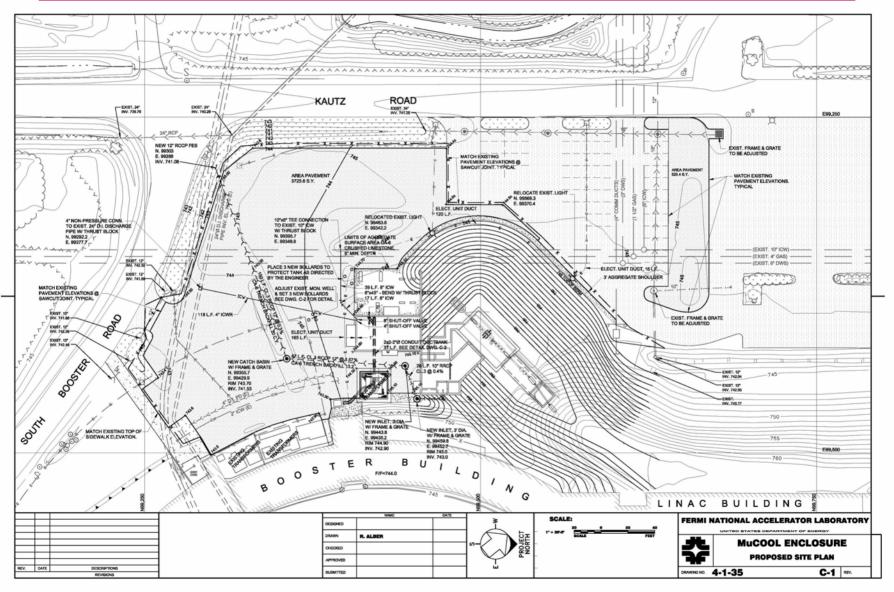






### MuCool Site, Roads, Utilities, Berm...

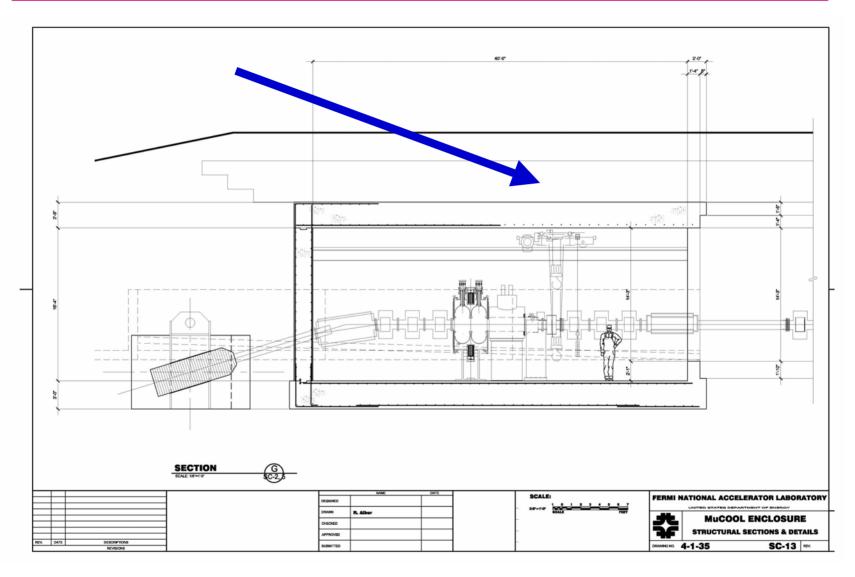






## **Shielding Steel**







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