

E906

Progress at KTeV Hall and on Iron Magnet

Chuck Brown

- Counting Room
- KTeV Hall
- Iron Magnet - FMag

KTeV Counting Room

- Counting Room is now in our possession
 - I have moved an assortment of desks, tables and chairs in from storage.
 - I will arrange to get a fiber connection and a WiFi hub connection to the Lab Network installed soon (both upstairs and downstairs).
 - I have an older computer in my office that I will install out there.
 - Should be ready for people to work in the KTeV area by this spring



South end of counting room

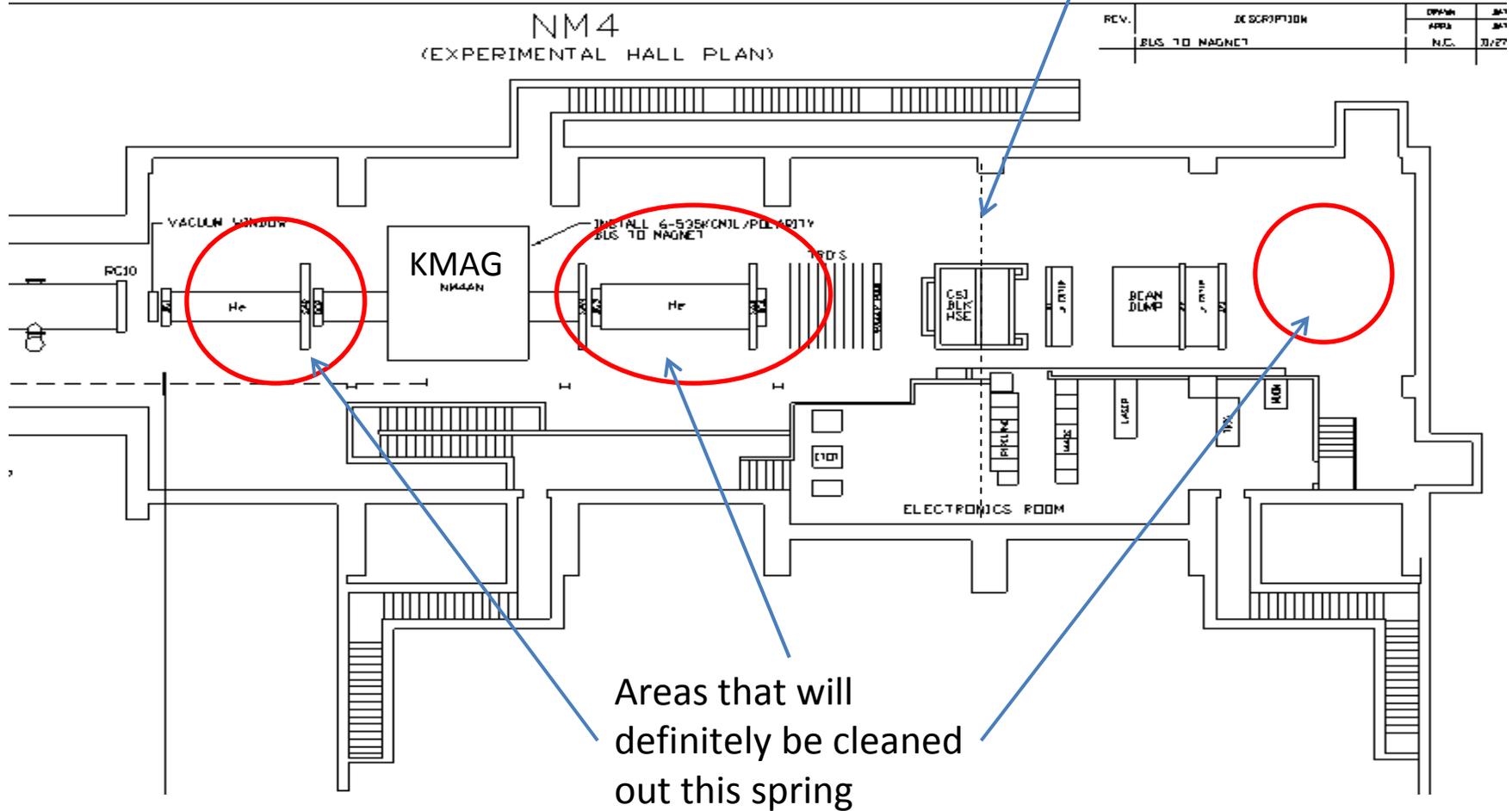


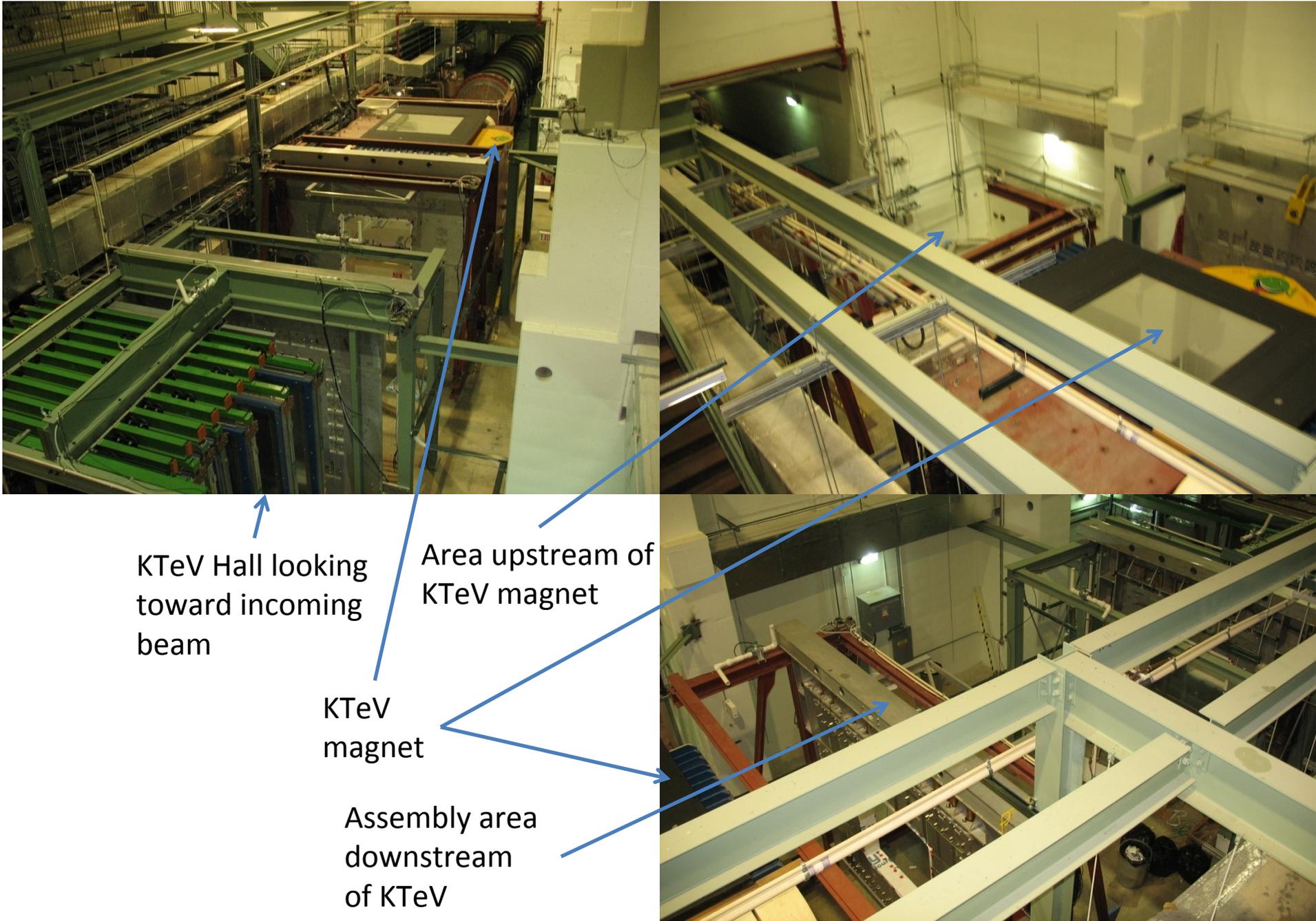
North end of counting room

KTeV Hall

- KTeV Hall is currently being cleared out
 - KTeV experiment is being dismantled.
 - We hope to retain some of their infrastructure such as chamber stands, electronic racks, cable trays, gas distribution, etc.
 - Preliminary meeting with Fermilab Particle Physics Division has been held. Agreement that Argonne engineer and Fermilab staff can work on details of layout in FY2009.
 - We may have to share space in the hall with a Liquid Argon test during CY2009.
 - Will still allow us lots of space to work on chambers & stands, and hodoscopes, etc.

End of loading dock





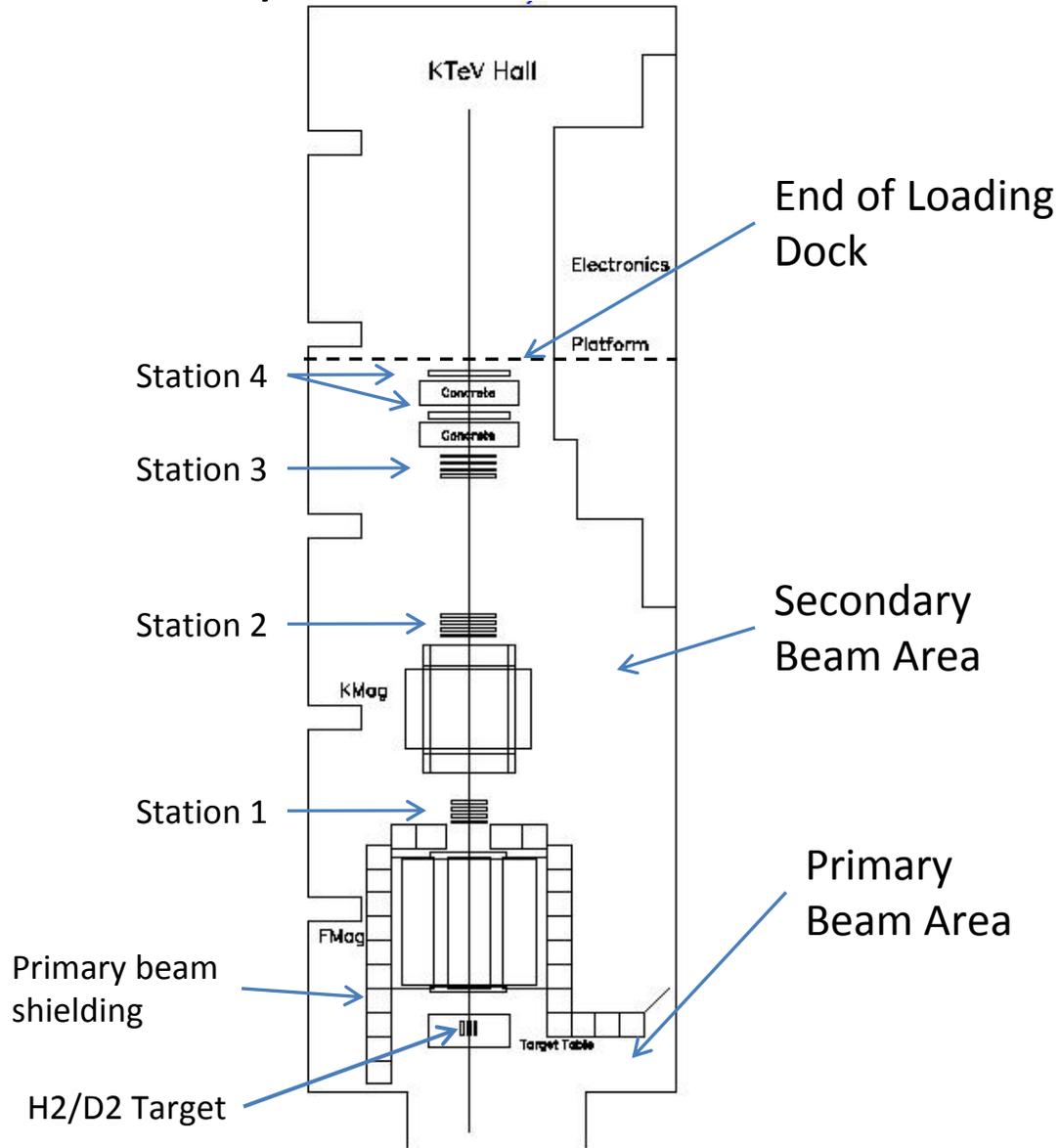
KTeV Hall looking toward incoming beam

Area upstream of KTeV magnet

KTeV magnet

Assembly area downstream of KTeV magnet

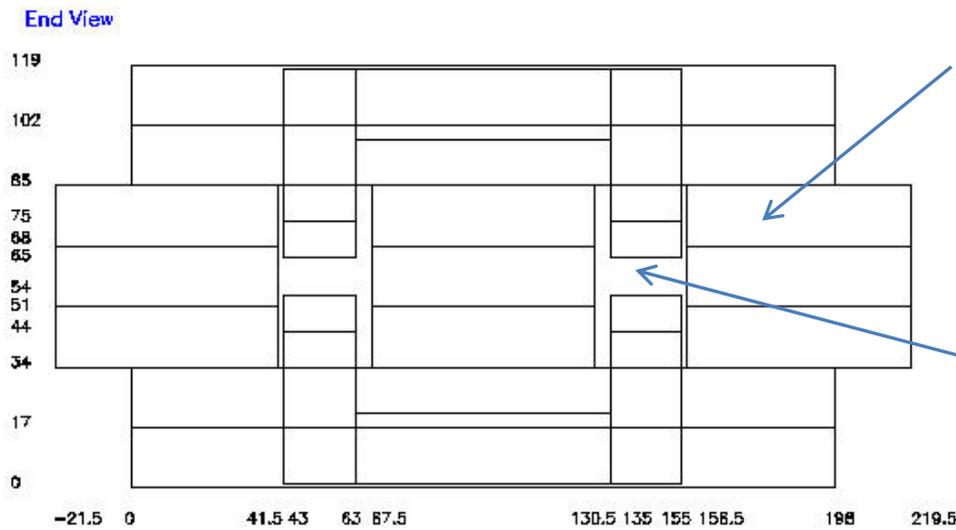
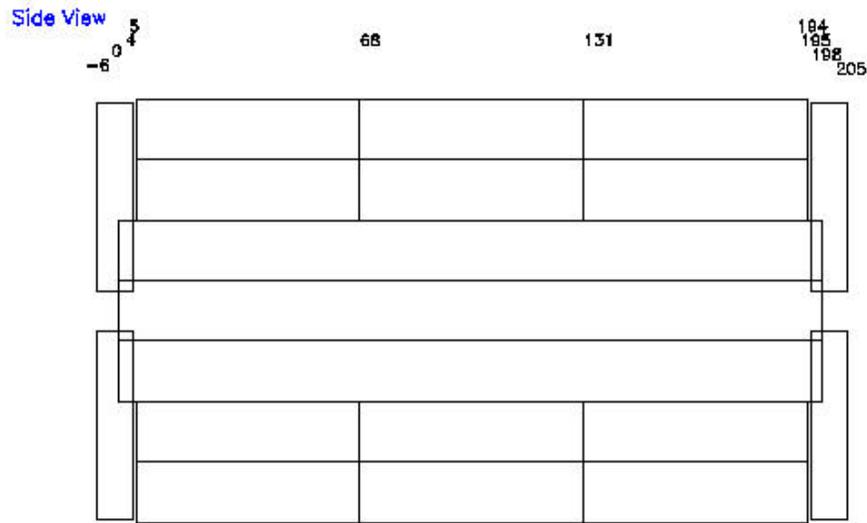
Layout of E906 in KTeV Hall



FMAG, the Iron Magnet

- Construction technique agreed to by PPD
 - 30 ton iron slabs from E866 will be cut in half so that they can be assembled by the KTeV Hall 25 ton crane.
 - Per suggestion of Don G, I have moved the side return yolks in a few inches, also added 3 more slabs of iron. Yields a very uniform field of 2.1 Tesla at 2000 Amps.
 - Still have to decide whether iron slabs are bolted or welded together.
 - Need final engineering design which includes plan for neutron shielding in the coil region, small pickup coils for field integral monitoring, beam dump, etc.?

E906 Iron Magnet

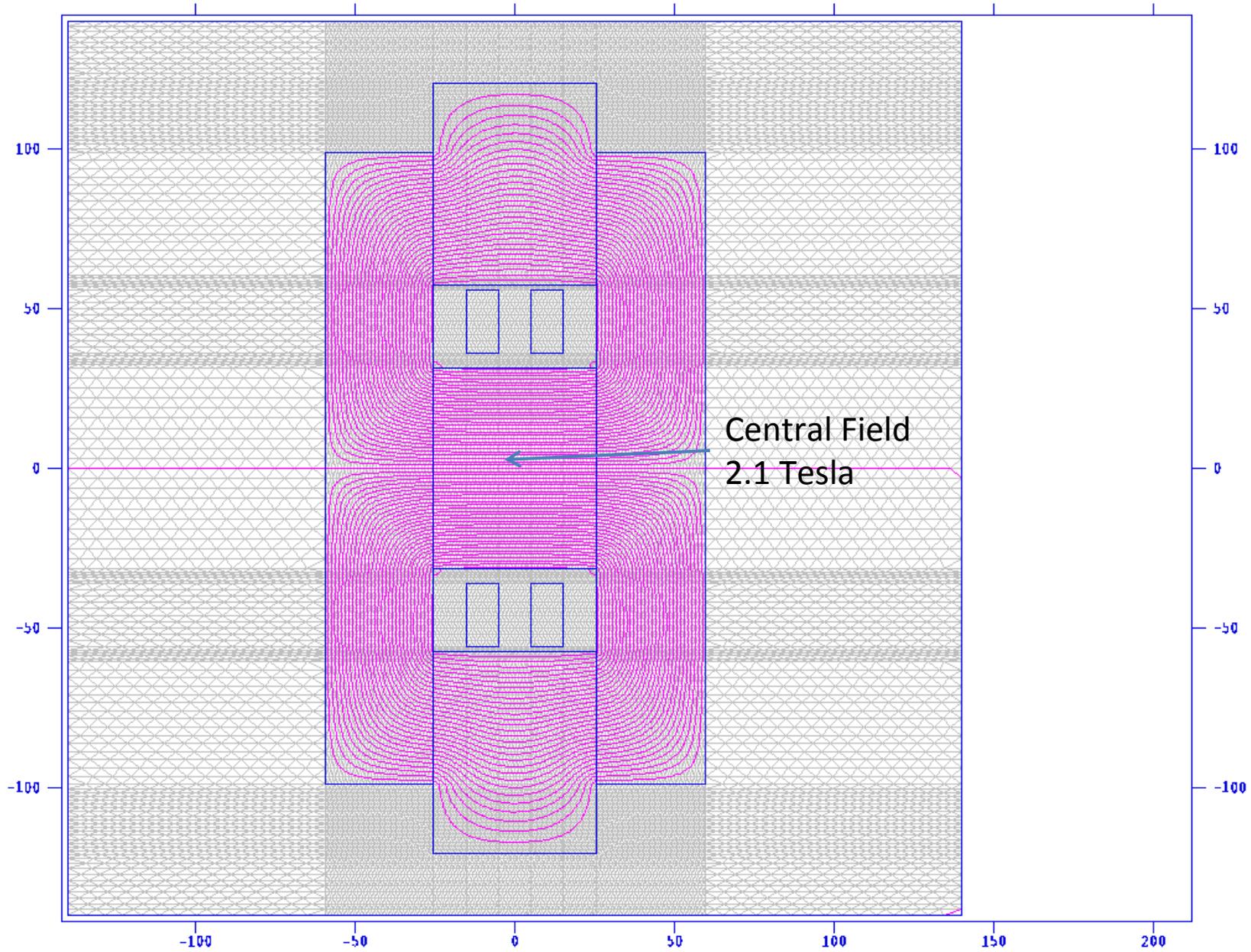


Return iron
moved in 3 inches

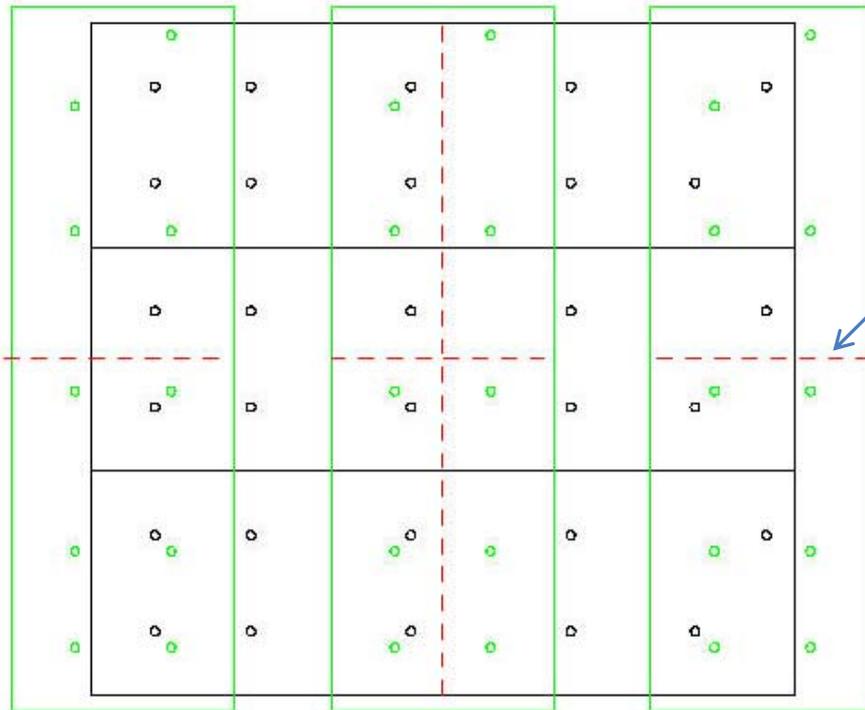
Space around coils
must be filled with
neutron absorber

All dimensions in Inches

Pandira calc. of FMAG field, 2000 Amps excitation



Assembly of FMAG



30 ton iron
pieces cut along
dotted lines

Need to weld, or
bolt using some
of the existing
bolt holes?

Questions?
Requests?