



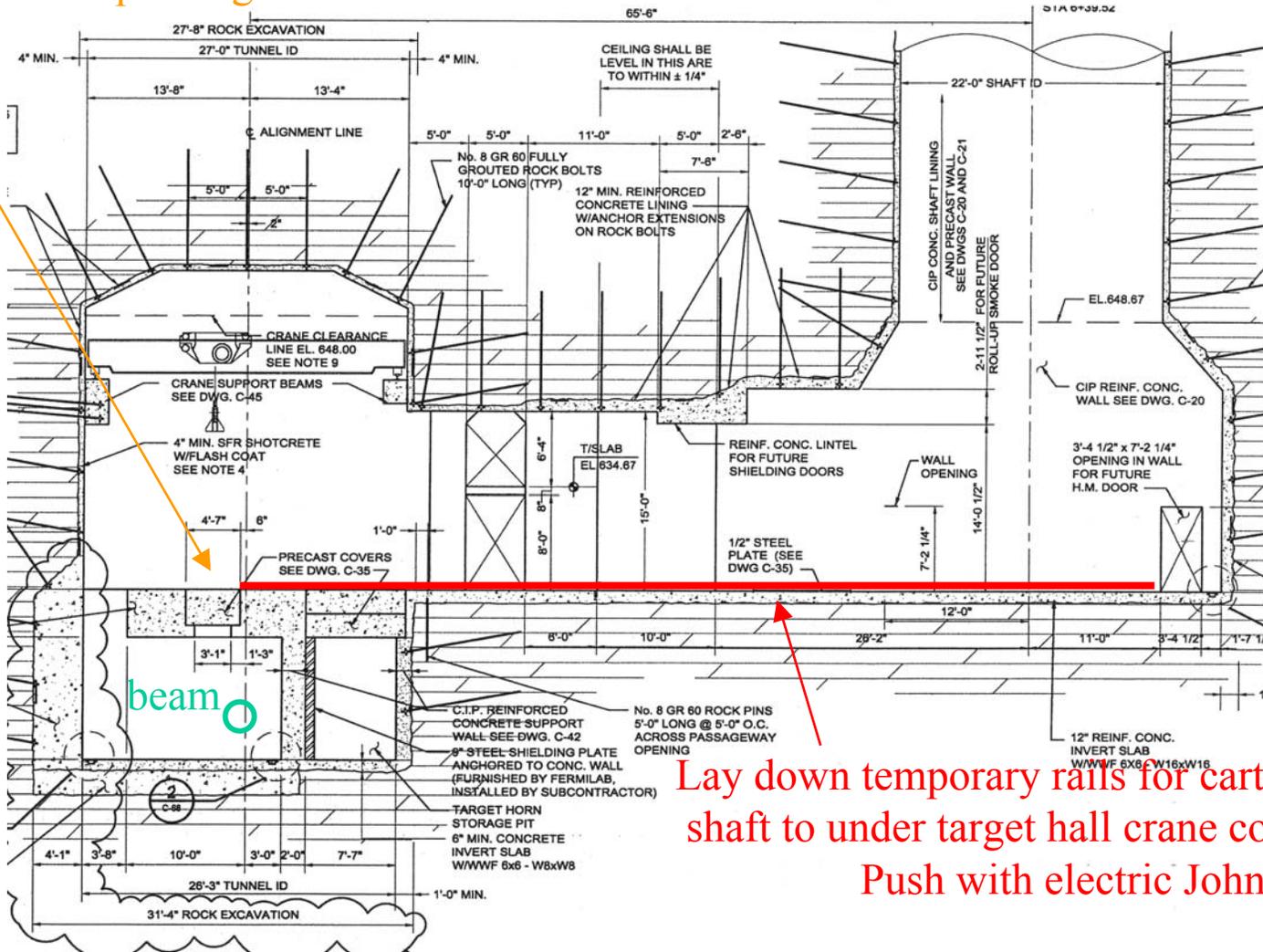
Target Hall Installation

-
- 1) Location and scope of items to be installed
 - 2) How are we doing compared to Installation Schedule ?
 - 3) Comment on Resources



Installation - Rails and cart from access shaft to target hall

Drop hatch to pre-target

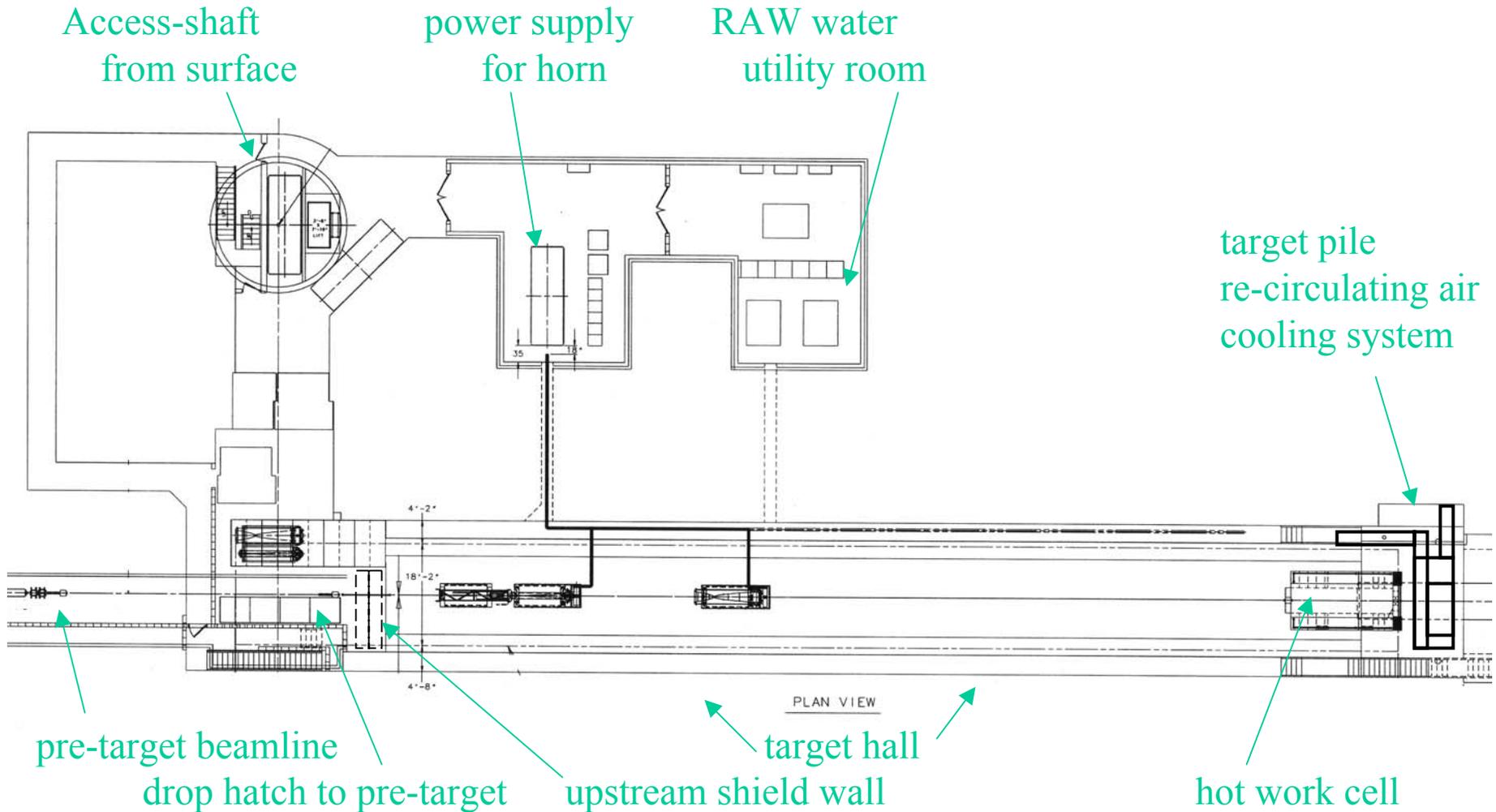


Lay down temporary rails for cart from access shaft to under target hall crane coverage.
Push with electric Johnson bar.



Installation in pre-target and utility rooms proceeds in parallel with target hall *except share access-shaft*

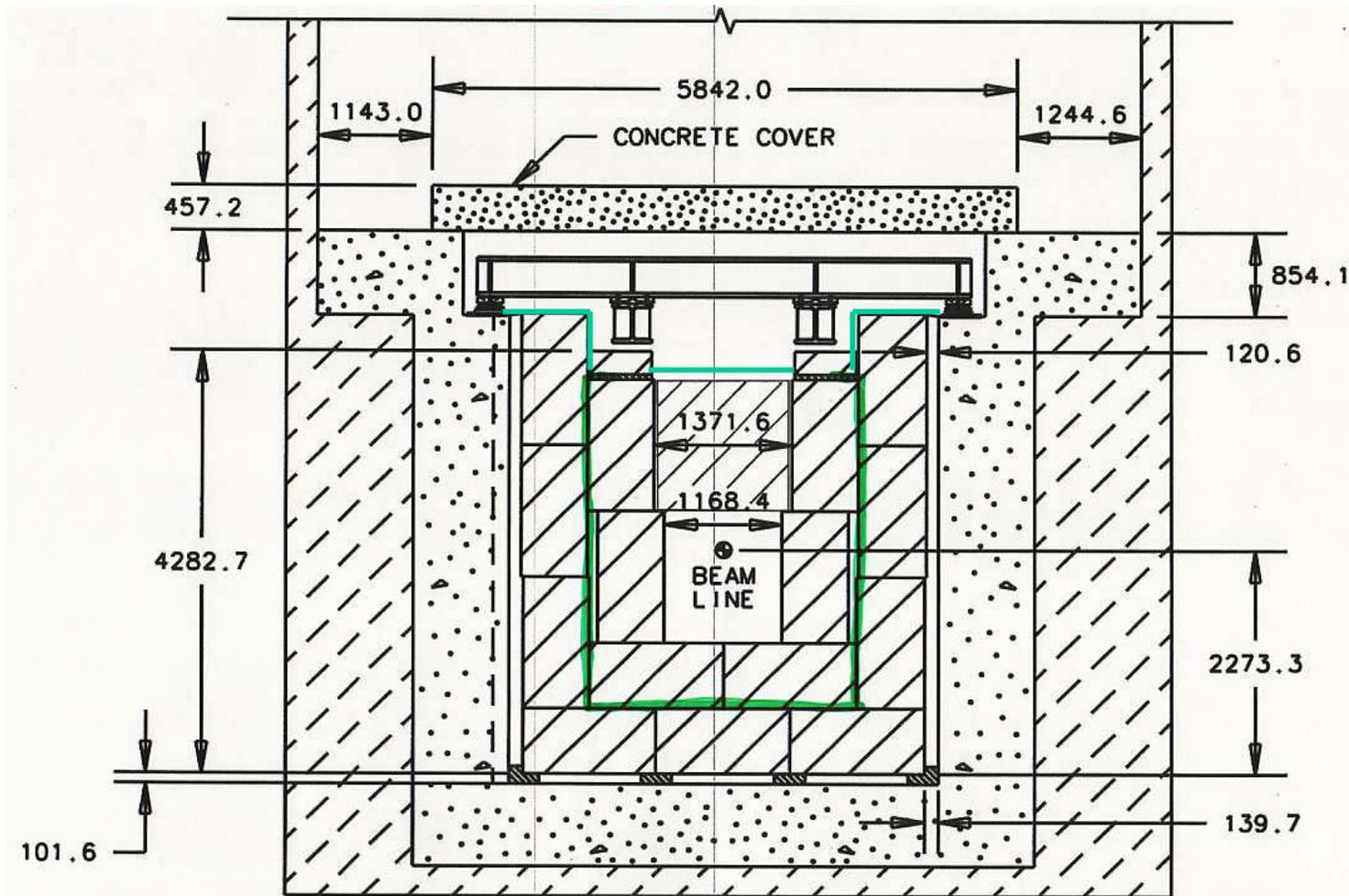
Director's Review of
NuMI Installation
Feb. 12, 2004
Target Hall – Jim Hylen
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Steel blocks –radiation shielding

Air block shield - separate supply and return air paths





Target Hall



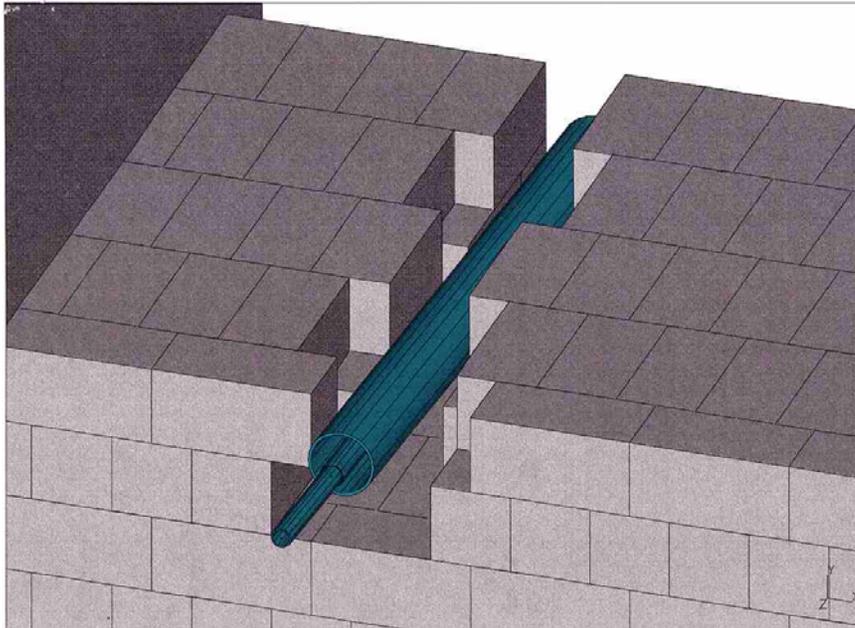
4700 tons of steel shield installed

out of 7200 tons steel plus
700 tons concrete blocks total
(including hot work cell, etc)



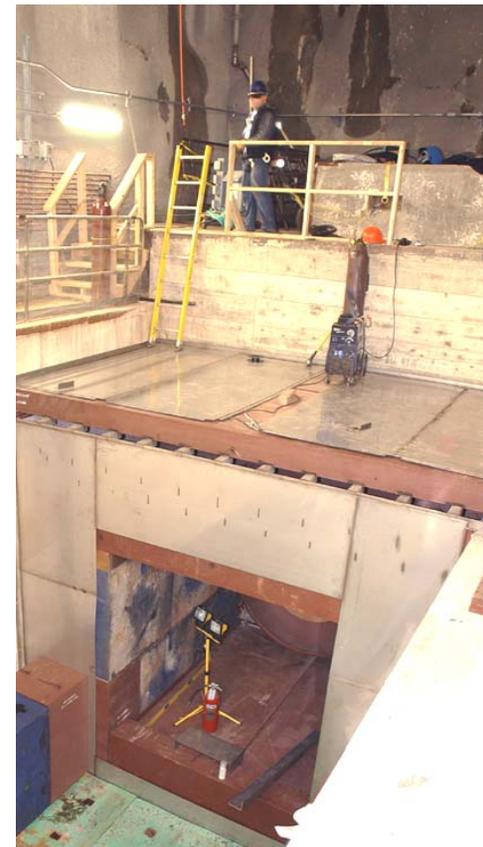
Upstream block wall and downstream air labyrinth

Upstream wall re-scheduled to end of shield installation so as not to block survey line-of-sight early on



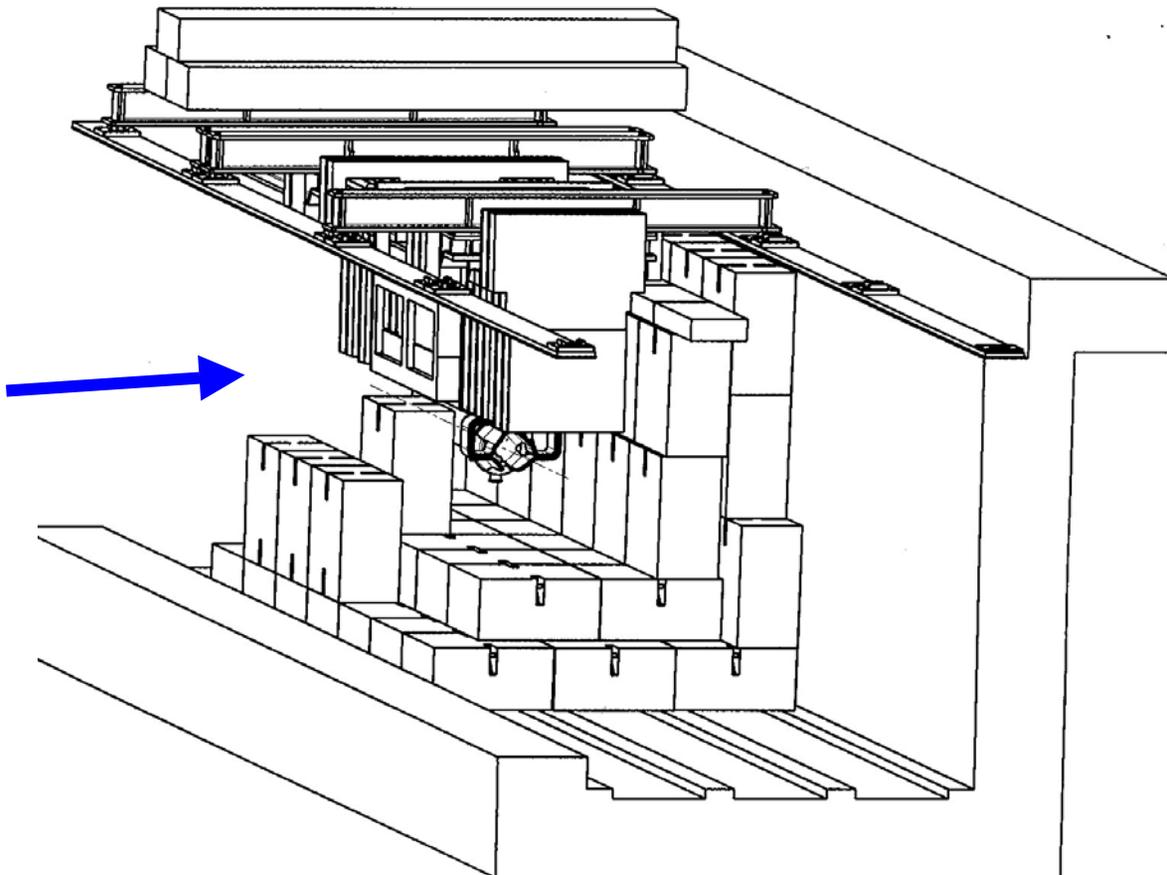
*Hand stack blocks between pre-target and target hall;
grout around beam pipe penetration*

Downstream shielding air labyrinth installed





Horns and target are being integrated to support modules in preparation for installation in target hall





Work cell for radioactivated components ready for installation in target hall





Hot Handling Practice



Test horn/target replacement procedures before irradiating modules and target pile –

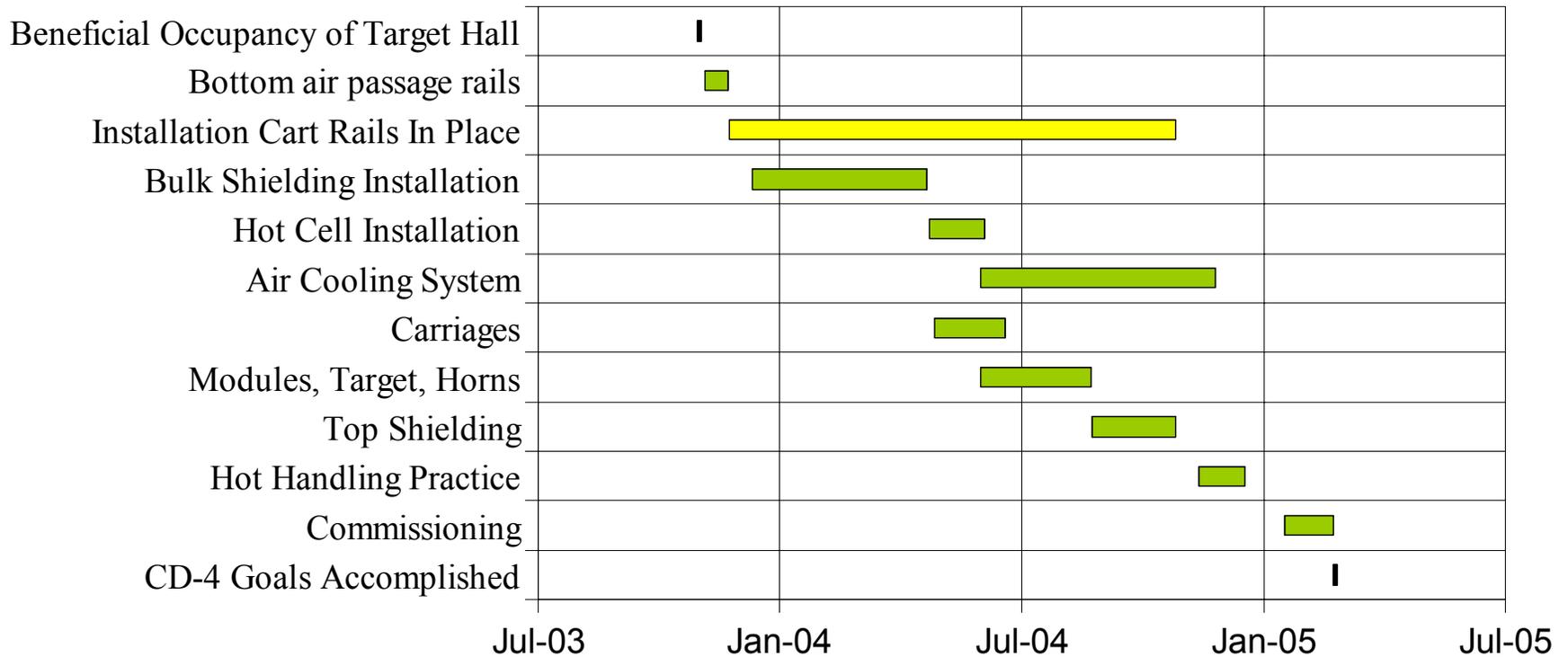
- components and modules will eventually be several hundred R/hr

Must remove/replace shielding and modules remotely (via camera)





Outline of major target hall installation tasks

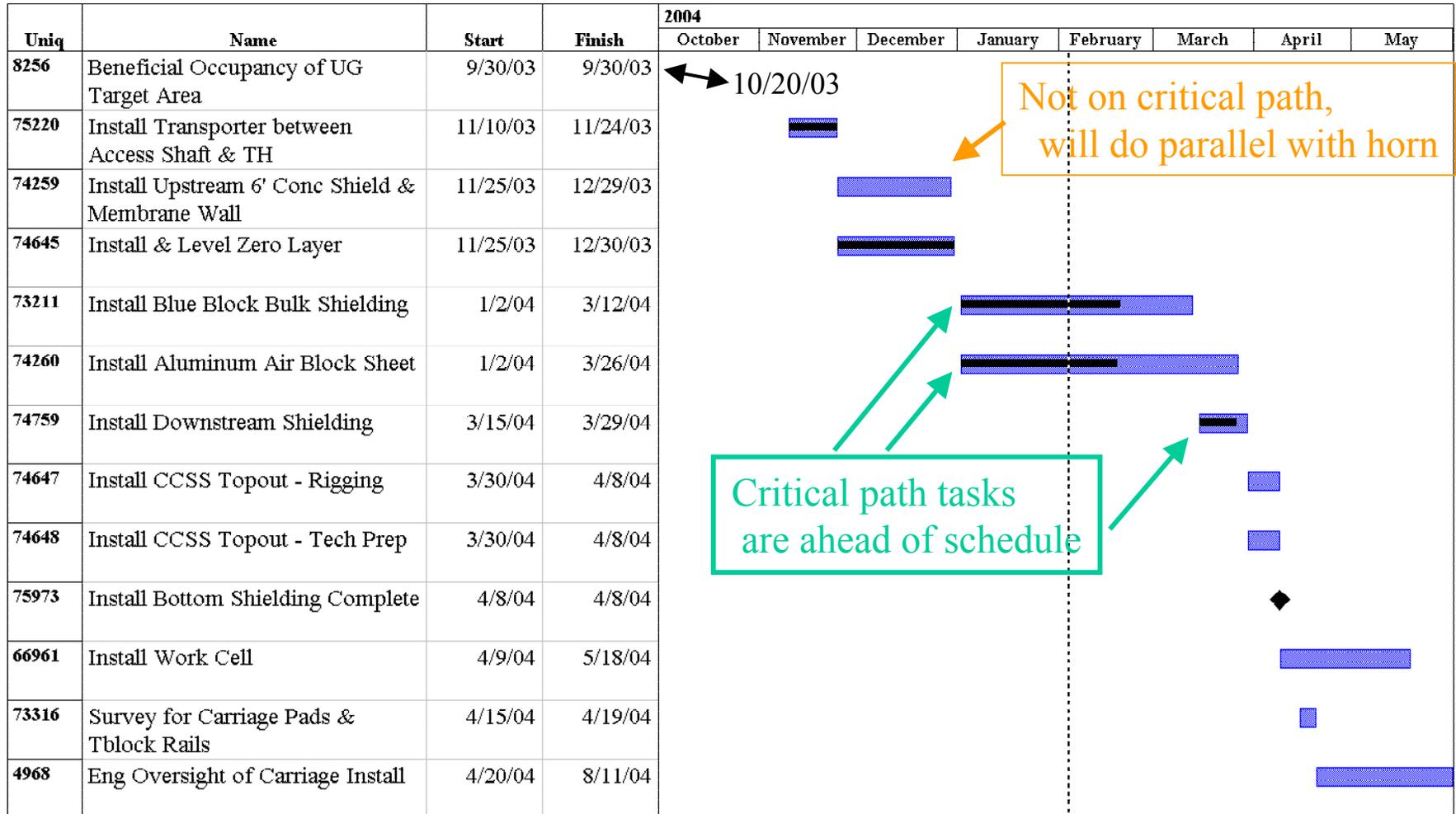


Target hall component installation is critical path item for beam



MINOS

Target Hall plan as of Feb. 2003 with status as of Feb. 4, 2004





Resources ?

MI-8 tech crew (AD) has been / must be protected from other lab activities:

- Need them to finish assembly of horns/target on modules, hot cell equipment
 - they will also do installation of these items
 - they will be busy until Nov 2004
- One of the technicians most familiar with the horn system is contract – should retain him through end of FY04 if possible for installation

Business services delivered all the main steel shielding blocks (~650) to MI-65. Still need them to deliver 72 R-block concrete covers, ~30 steel T-blocks, carriages, hot cell pieces, upstream shield wall. Must coordinate with MINOS installation.



Resources ?

Two phases:

Oct 2003 – April 2004

Bulk shielding installation by T&M
Task Manager: Mike Petkus

April 2004 – Nov 2004

Component installation, hot handling practice
by MI-8 tech crew (AD)
Task Manager: Hiep Le
(Must work through shutdown)

Air system, upstream wall, some top shielding by T&M
Task Manager: Mike Petkus
(Some overlap with shutdown activities)



Safety

6129 hours of T&M labor so far for target hall installation
without any reportable accidents

Safety features include:

- Write and follow a Hazard Analysis for each task
- 7 AM toolbox safety meeting each morning
- Underground training course required before working at MI-65 / target hall
- Checklist of daily equipment safety checks
- Floor managers and task managers continually emphasize safety



Conclusion

Target hall installation is on or ahead of schedule.

No major problems foreseen at this time.



*We are looking forward to
first protons on target December 2004 !!*

