

Conventional Facilities and Construction Schedule

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KEK

ATF2 Project Meeting, 2007/12/19, KEK

Contents

- Report of Floor Refurbishment
- Present and future of ATF2 Infrastructure
- Construction Schedule
- ATF operation until the summer shutdown

Before the refurbishment



Crab Cavity, Dec 2006



X-band, Dec 2006



March 2007

Floor refurbishment



Remove surface concrete
2007/6/27~

Quikrete CZ
BLUFVSEDEEA
CPC-CAEENE EE PAKOCCTOC... COKOC- AB

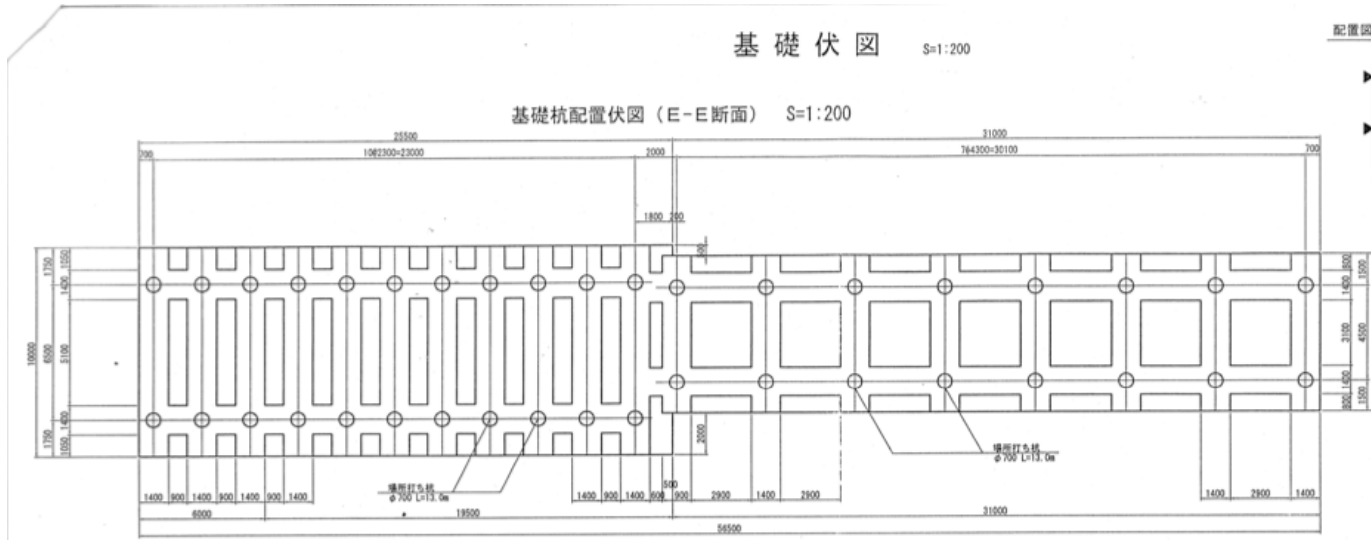
2007/6/20



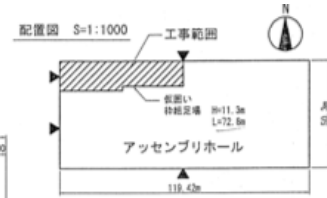
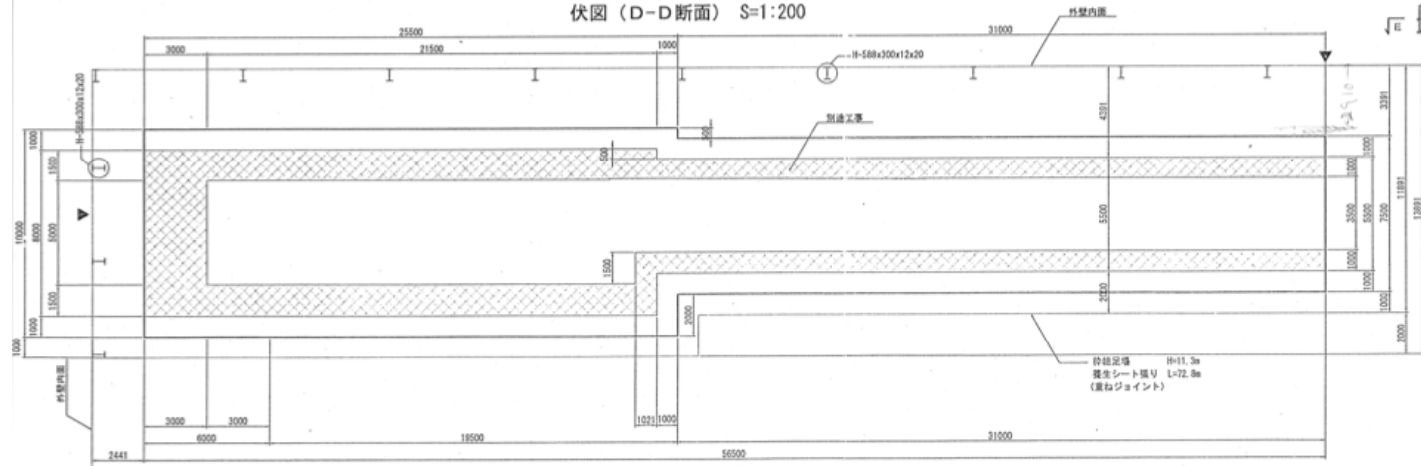
2007/7/2

基礎伏図 S=1:200

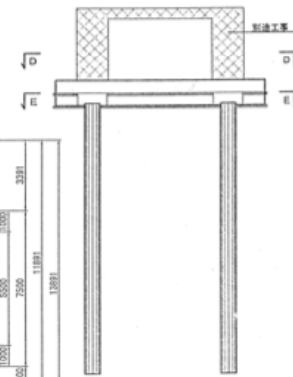
基礎杭配置伏図 (E-E断面) S=1:200



伏図 (D-D断面) S=1:200



KEY-PLAN



Floor piles

~ 13m x 38 sets



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Floor base structure

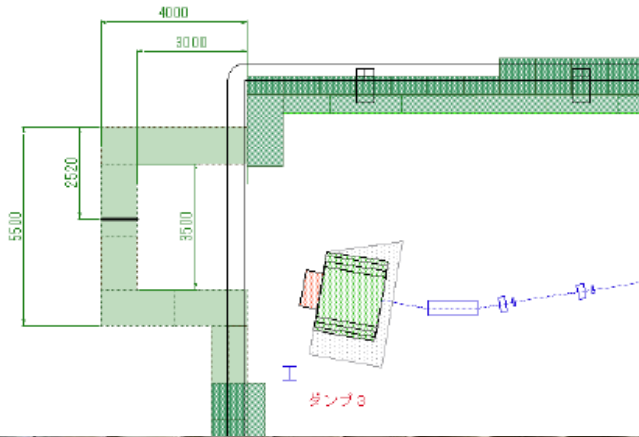
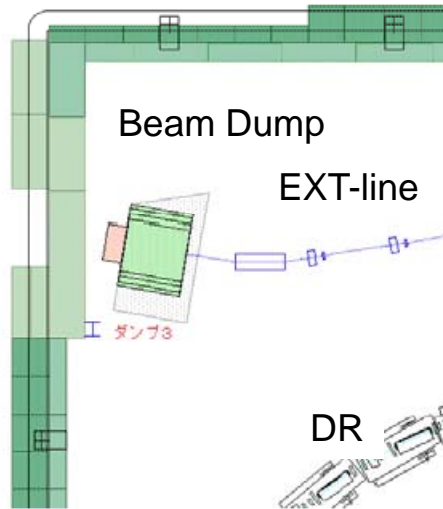


Finalize the floor



Modify the radiation shield of the ATF2 joint section

May 2007



Shield Installation

Used shields from FFAG (KEK)
Can not move them anymore,
without the cleanup of ATF2.



EXT/FF Joint Section



Some blocks are removed when the alignment of FF line is scheduled.

It will be removed completely after June 2008.

Entrance for FF beam-line





Installation of Magnet Tables

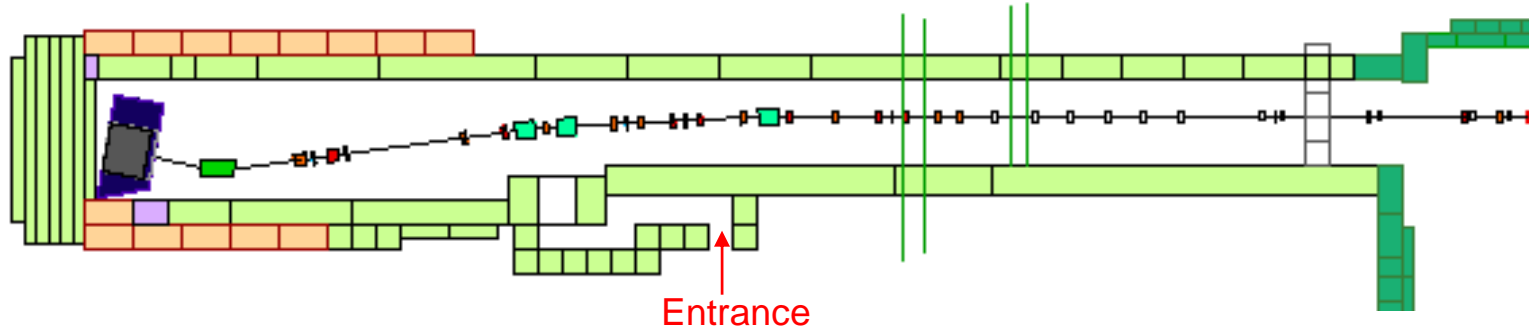


Sugahara-san
will report the
details.

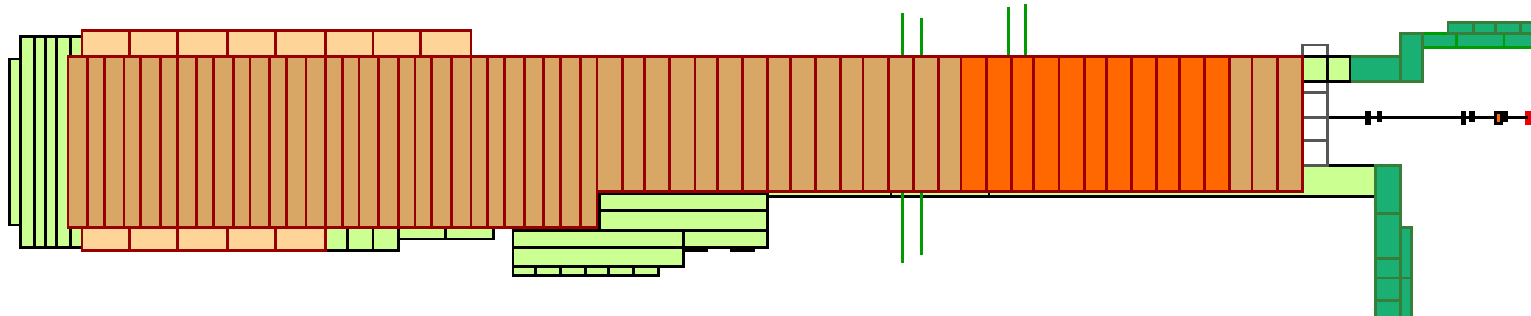
Final Shield Layout

-  Installed/stored
-  will be delivered from Feb/4 to Mar/14.

About 70% of side wall was installed at present.
A few blocks will be delivered every day after Feb. 4th.

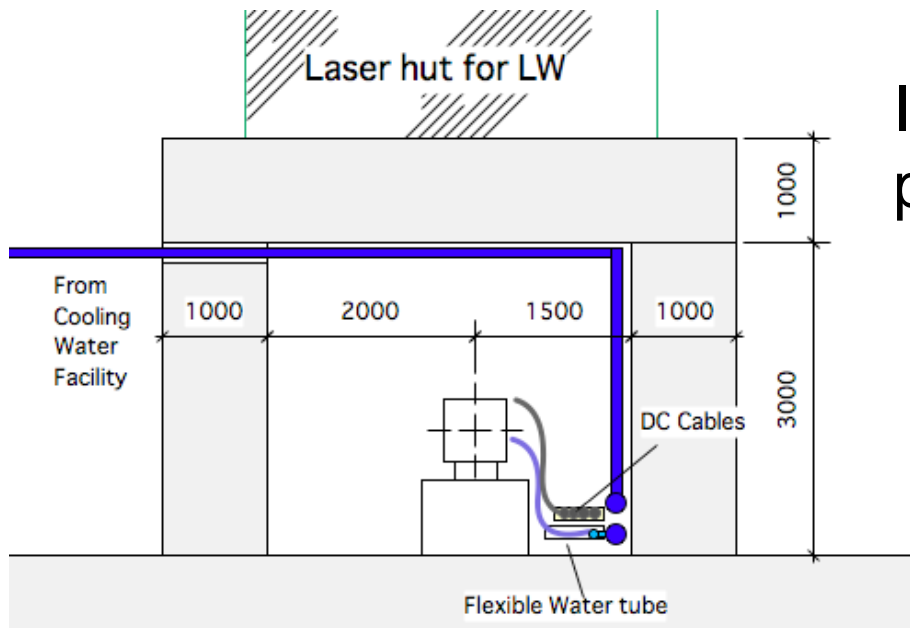
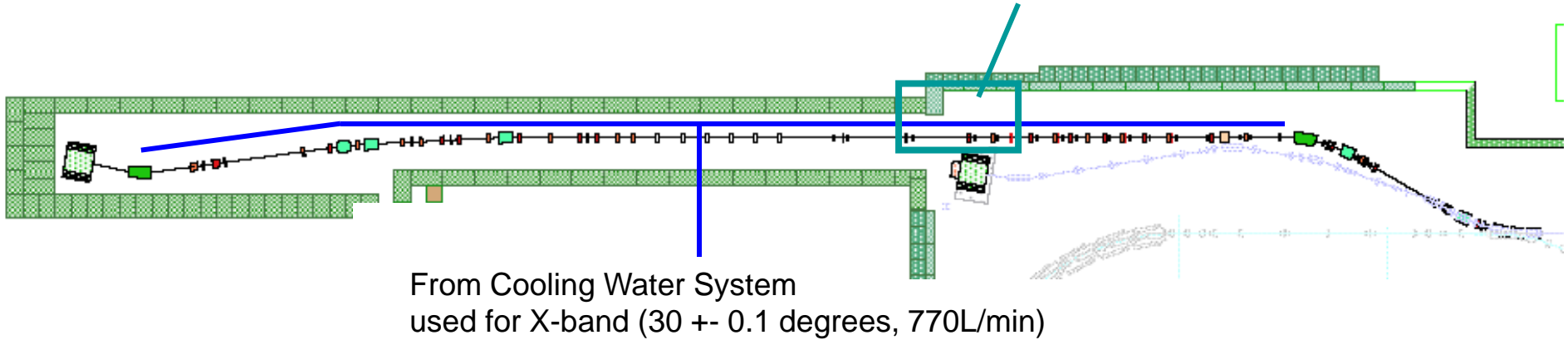


Beam line will be closed by shields until end of March 2008.
Open any shield when install the remaining magnets; FD, Bend,...



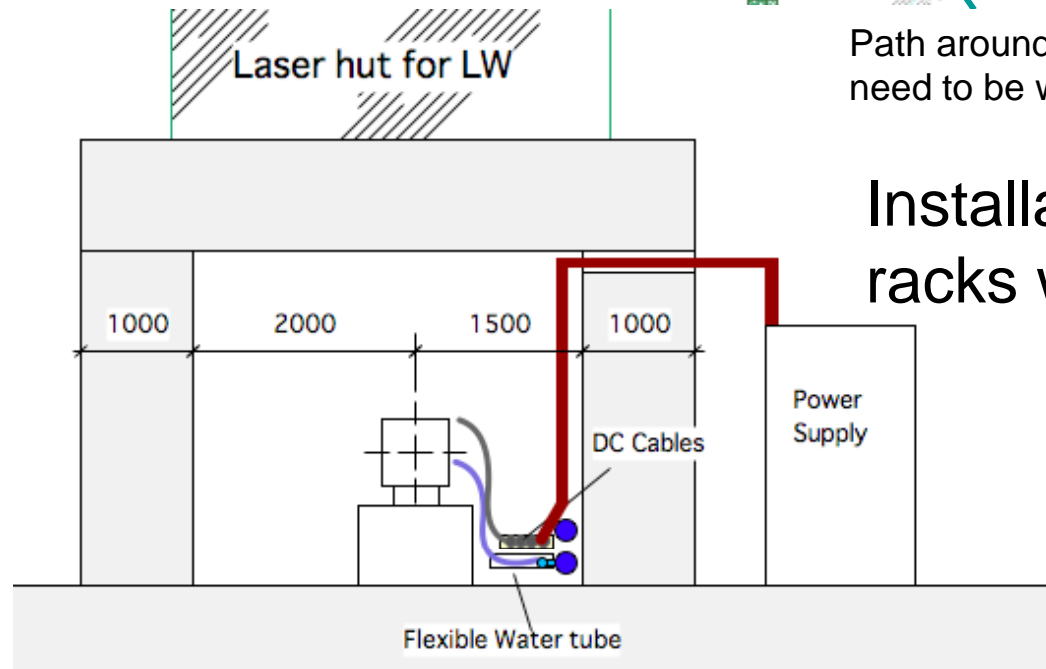
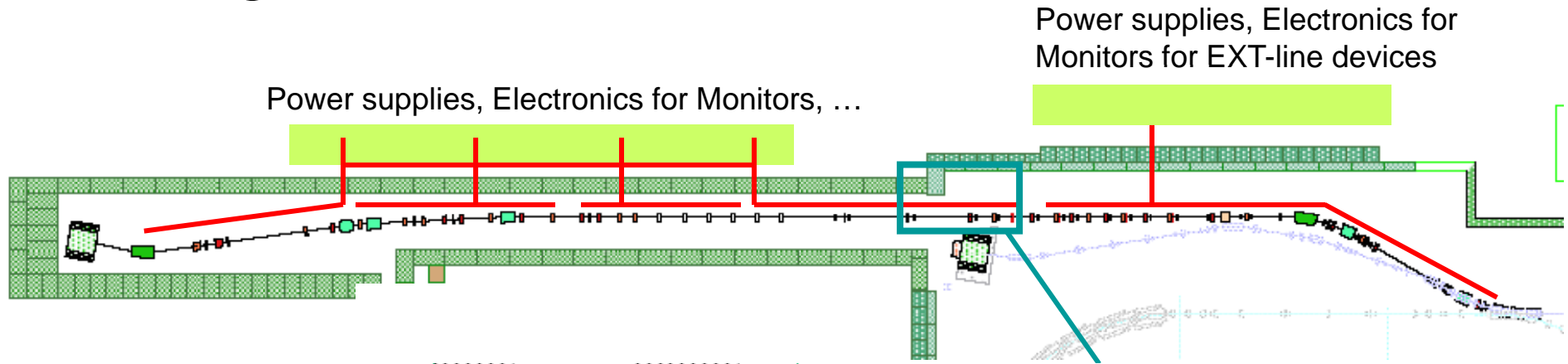
Path of Cooling Pipes

Path around the LW system need to be well discussed.



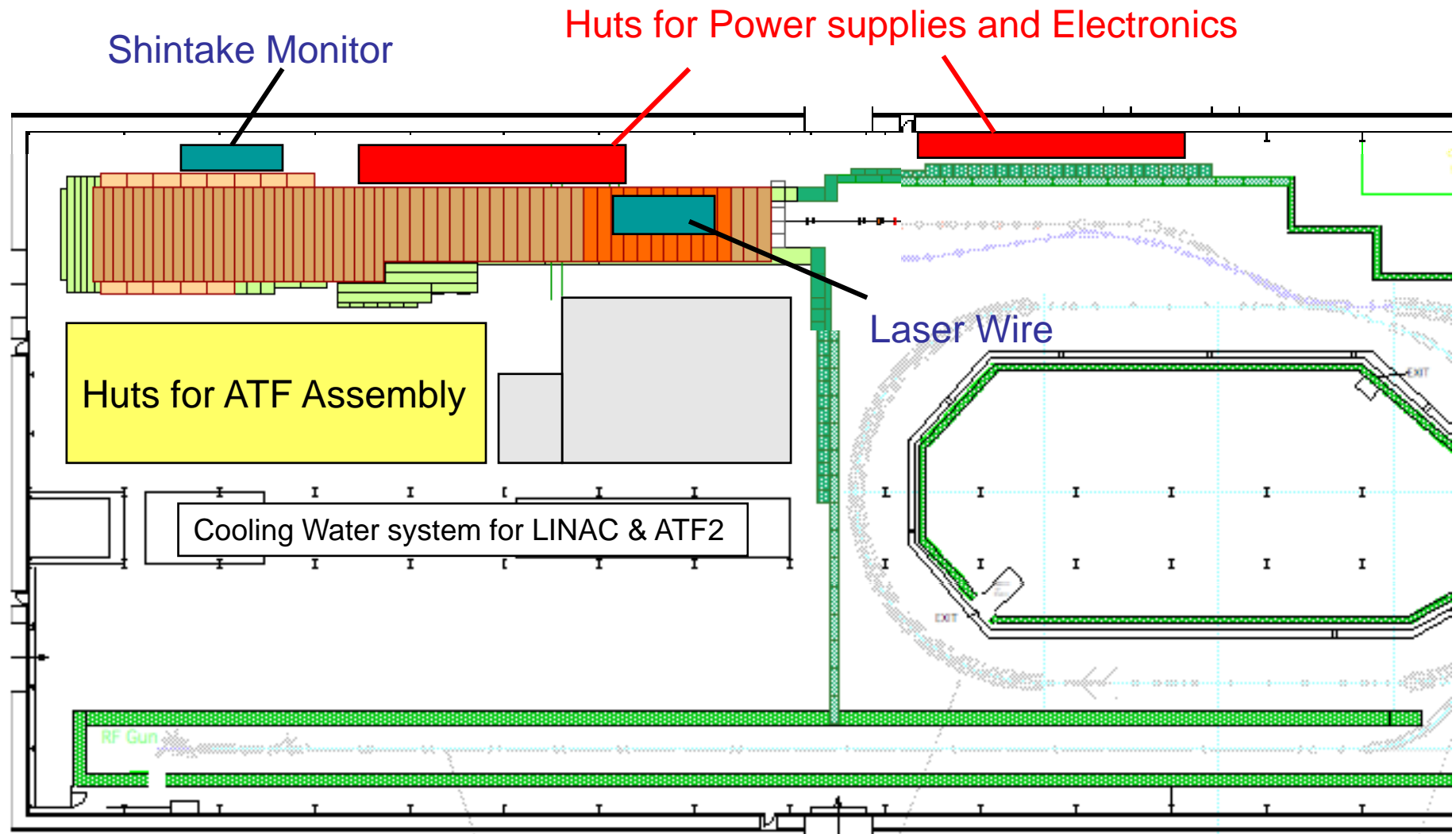
Installation of cooling pipes will start soon.

Path of Cables (Magnets, monitors, etc.)



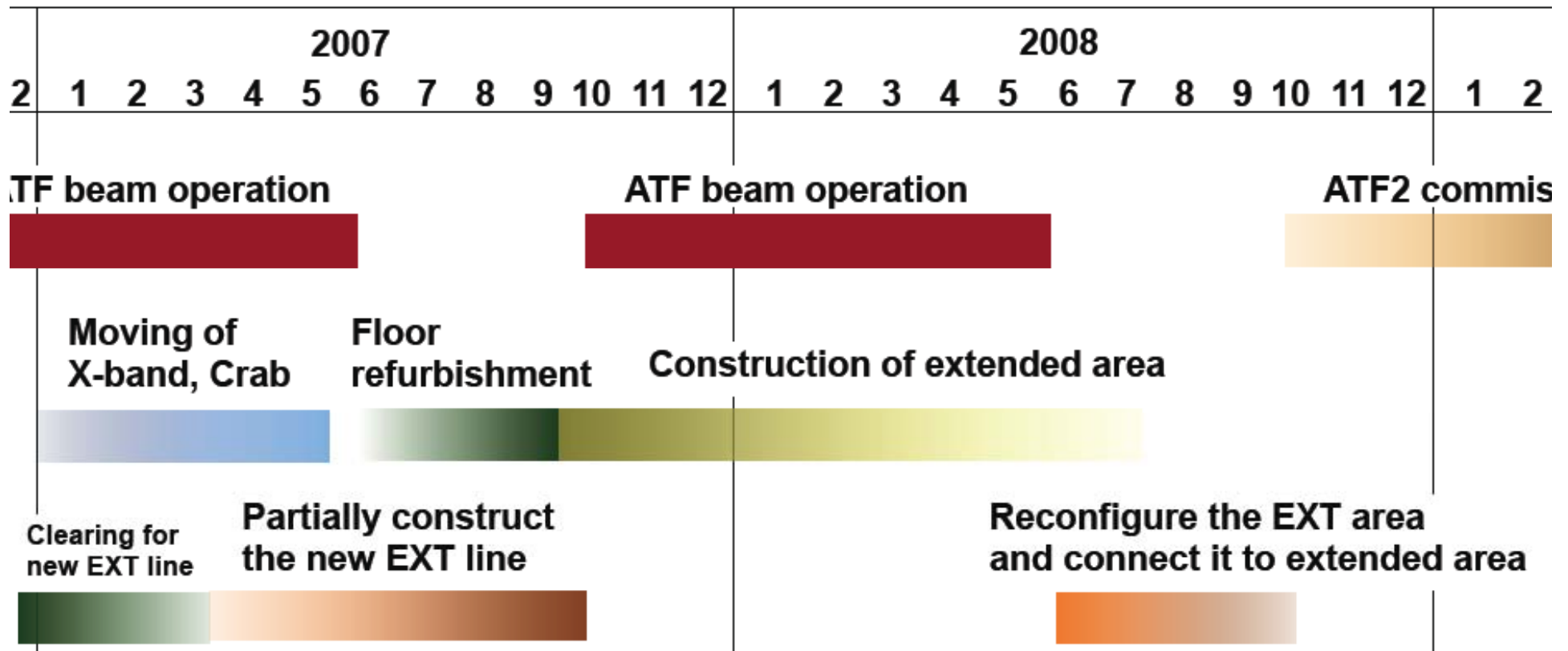
Installation of cable racks will start soon.

Plan of Huts for devices



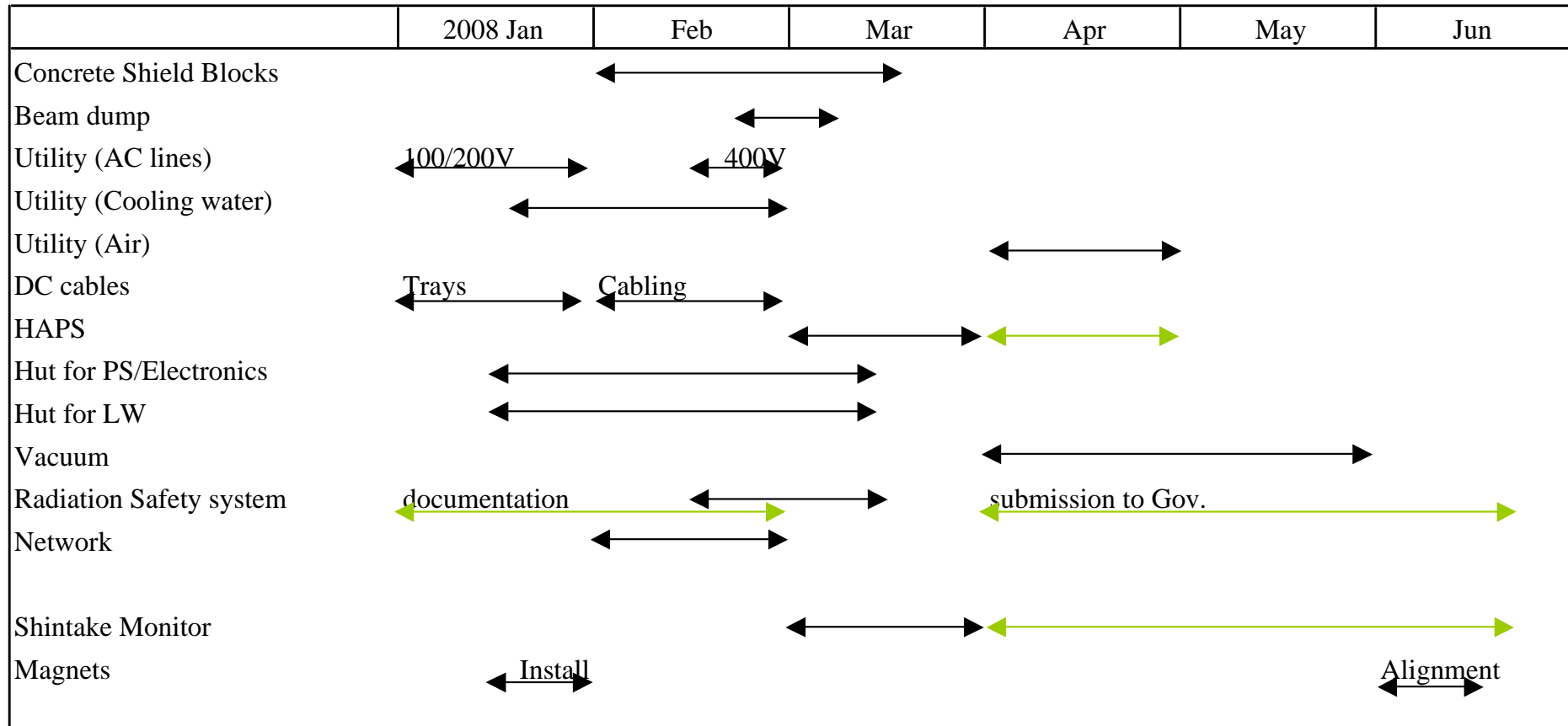
ATF2 Construction Schedule

Not changed since Dec. 2006.



Construction schedule until June for ATF2 area

ATF2 area

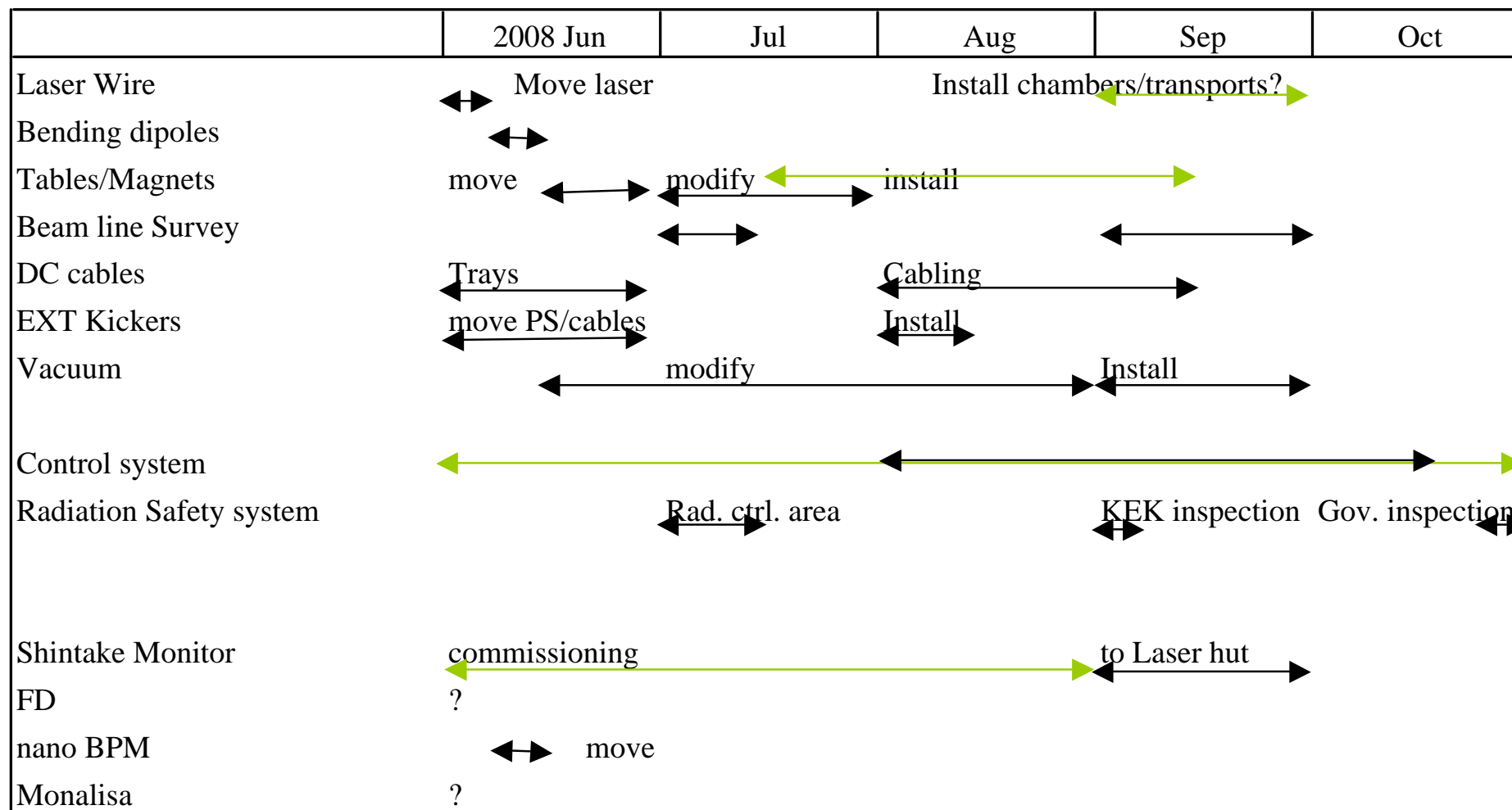


Steps to reconfigure the EXT line

1. Prepare to open the top shields
 - Relocate the laser system for LW into new hut.
 - Move the LW hut for another usage
2. Relocate the bending dipoles after IP
3. Move other devices to clear new beam line
4. Position Survey for magnets
5. Arrange the cables and trays
6. Modify present tables (holes)
7. Install magnets
8. Install kicker magnets and relocate its power supply
- ...

Construction schedule

EXT-ATF2 area



ATF operation until the summer shutdown

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Can we operate ATF?
Are shift leaders available?

3/3-6:

ILC-GDE

3/24-28:

Physics Society of Japan

I would like to ask the
cancellation of June
weeks because...

- We need enough period for EXT modification as long as possible,
- ATF is not efficient due to environmental heat.

your comments please!