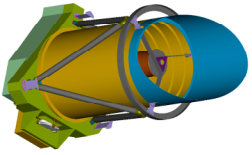


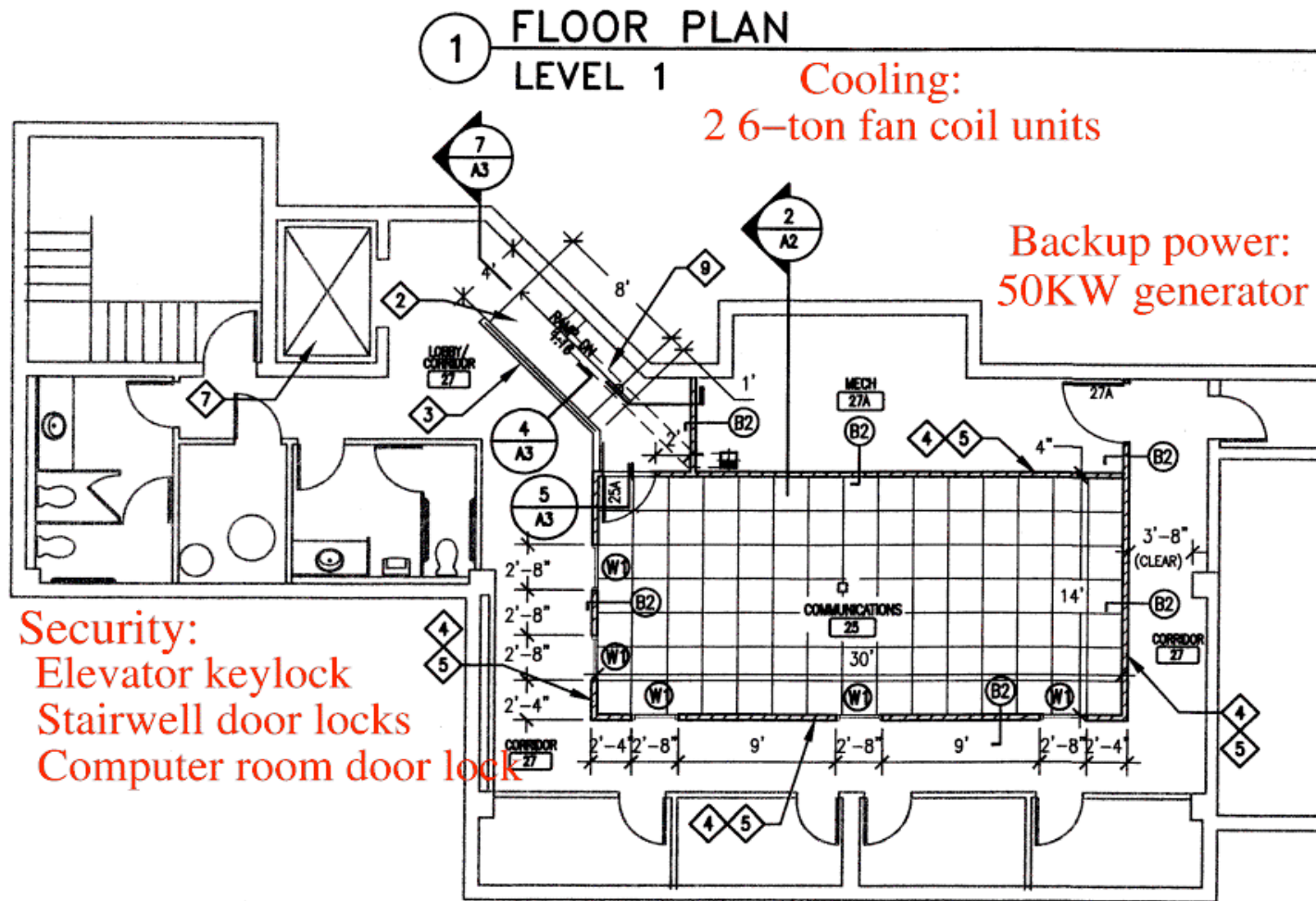
The HiROC and HiCAT

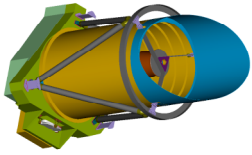
Joe Plassmann, Planetary Image Research Laboratory

Oct 13 2004



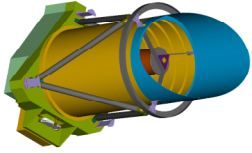
HiROC Computer Facility





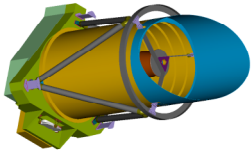
Facility details

- FM200 fire control system.
- Computer floor is 6 inches of concrete covered with static dissipative tile.
- Clipped drop ceiling.
- Designed for 3 sets of 4 72U racks, 3 12KVA UPSs
- Maximum power dissipation in room is 45KW (12 tons cooling spec'ed), redundant chilled water coolers.
- 240 Category 6 network connections throughout building
- 24 pair “fiber triangle” in between Kuiper Space Sciences and CCIT. Tested at 10Gb/sec.



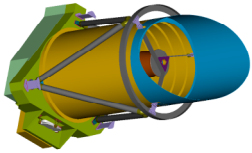
HiCAT hardware support during ATLO

- PIRL (Planetary Image Research Laboratory) computing facilities presently used for testing of HiCAT.
- MySQL server running on Sun Enterprise 3500.
- New MySQL server to be installed on SunFire V210 dedicated to HiRISE.
- 2TB SATA array available for data storage, catalogs, locally attached to Sunfire system, dedicated to HiRISE.



HiCAT Support during Ops

- Dual database servers attached to Fiber SAN.
- Catalog backed up on mirrored RAID array, working image possibly completely in memory on HiCAT servers.
- 1Gb (at least) connection to internal network. Trunked?
- Fully redundant failover operation.
- Access to HiCAT catalog server via filter application to provide extra security?
- Remote backup site?



The HiROC

