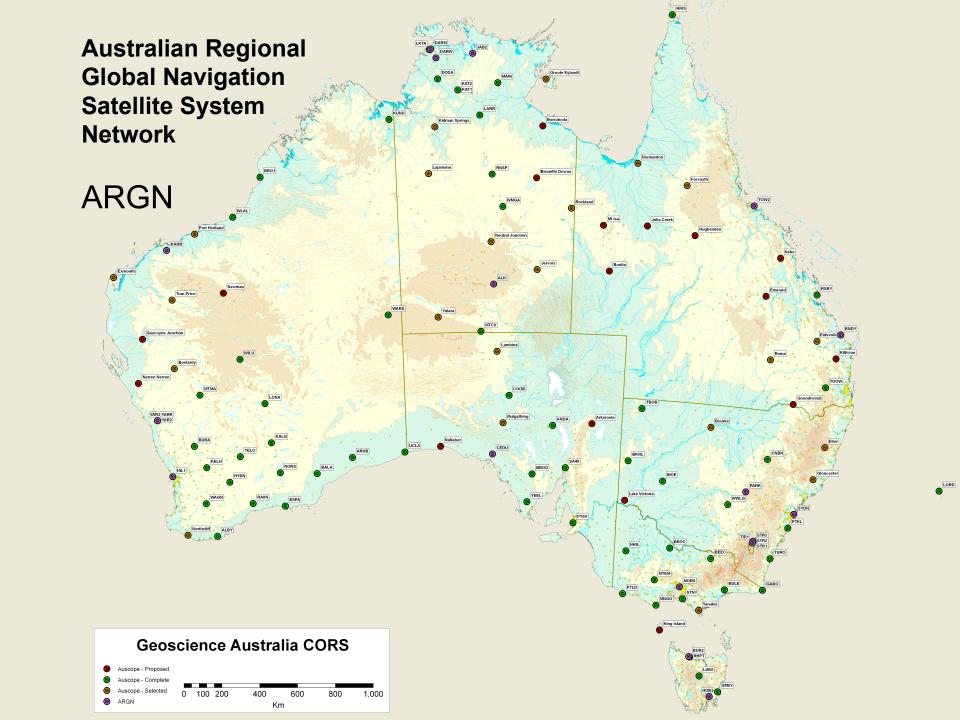
Dual-frequency GPS at MRO

- Collaboration with GA
- On track but running slow
- Site at MRO (almost) selected
- Technical solution for RFI suppression (RFoF)

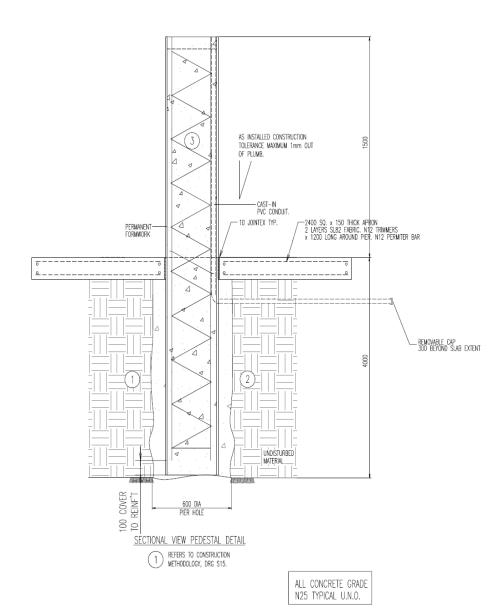
JR 9/5/2012



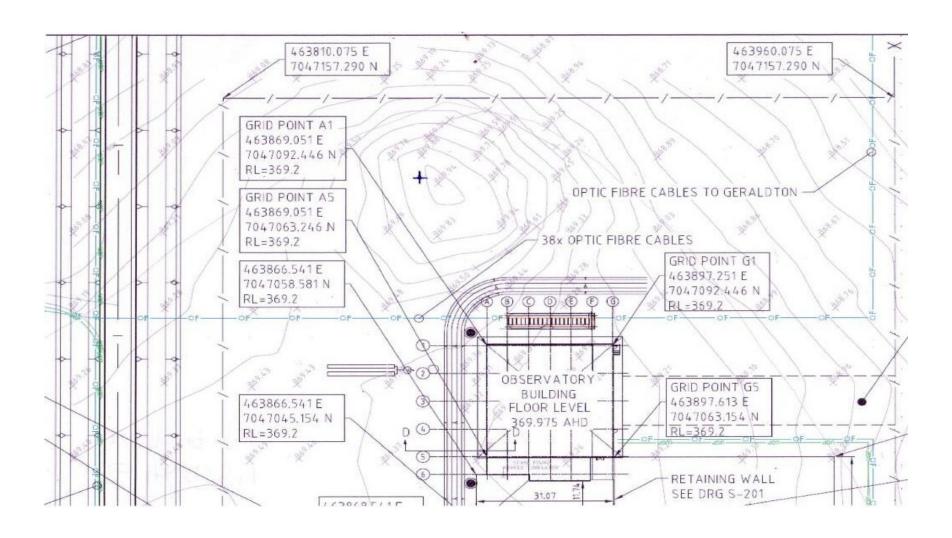




Monument requires a fair bit of excavation and concrete



X marks the spot





Installation at MRO

 Monument located within ~tens of metres of central building

 Will use RF-over-fibre to get through the RFI shielding

Aiming to get this done in 2012

SST requirement

- What are the SST requirements?
- Do coorections need to be included in the ASKAP data pipeline?
- How near to real-time are TEC estimates needed?

Probably important to understand these better at some stage.

Access to GPS data

 We would have unfettered access to raw data from MRO station but this may not be useful without calibration

Proprietary s/w ('Bernese') ~\$15k/licence

 IPS already doing this. LUNASKA project has been talking to them re: access to real-time calibrated data from ARGN network. Status?

IGS/GNSS Network



Current options

- IGS network archive & maps of VTEC available ~days in retard (see map of station locations)
- Australian IPS "FoF2" data from ionosondes available
 1 hour in retard.
- IPS GPS data not yet readily available, but 'coming soon'?

 Other options being explored to get near-real time access to IPS GPS data