

## Lessons Learnt – CAD Quality & Assurance

### Observation:

Quality and assurance guidelines for all CAD drawings and models were set by the Client at the beginning of every project. It was vital that all operatives working on the project knew and understood the project standards before commencing work. The CAD managers were responsible for ensuring that the standards of the client were met at every stage of the project.

### Issues arising:

- CAD operatives using shortcuts and non-standard ways of working caused quality issues.
- Over 40,000 CAD files were produced by multiple designers and sub-contractors.
- Communication and co-ordination was critical to avoid non-compliance.
- Quality Assurance must be standardised across all teams.

### Recommended actions:

- Training must be given to all operatives before commencing CAD work.
- The Client's standards must be agreed, formalised and distributed to all teams across the project.
- Quality assurance must be carried out on all submitted files at every stage of the project from feasibility to as-built.

**Do it**   
**RIGHT**  
*Complete First Time – Right First Time*

