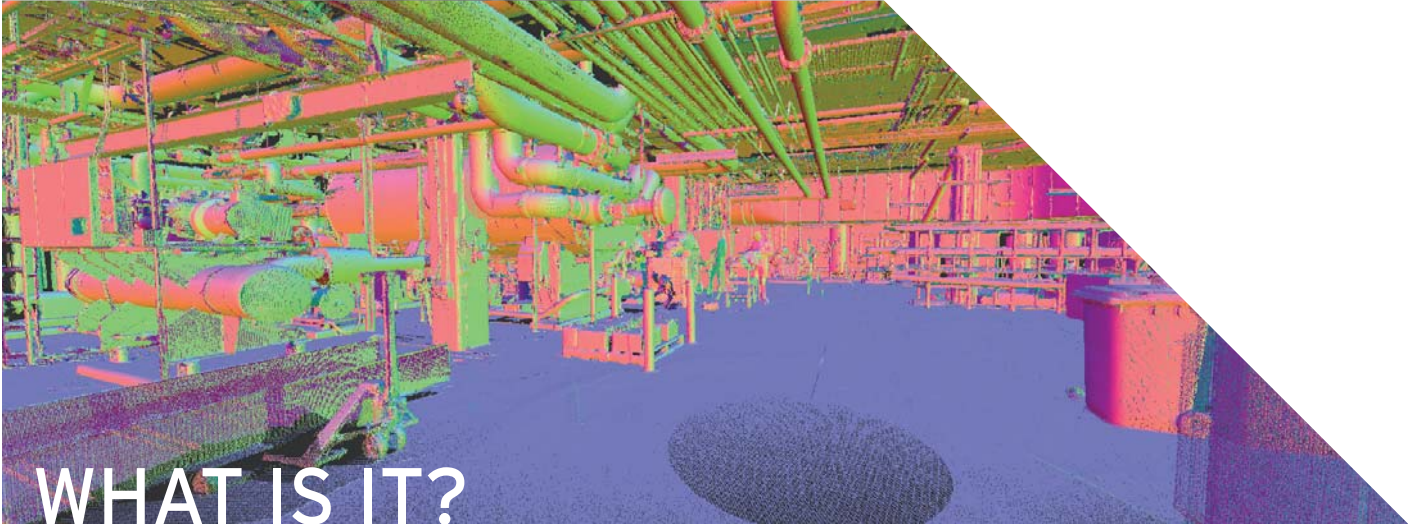


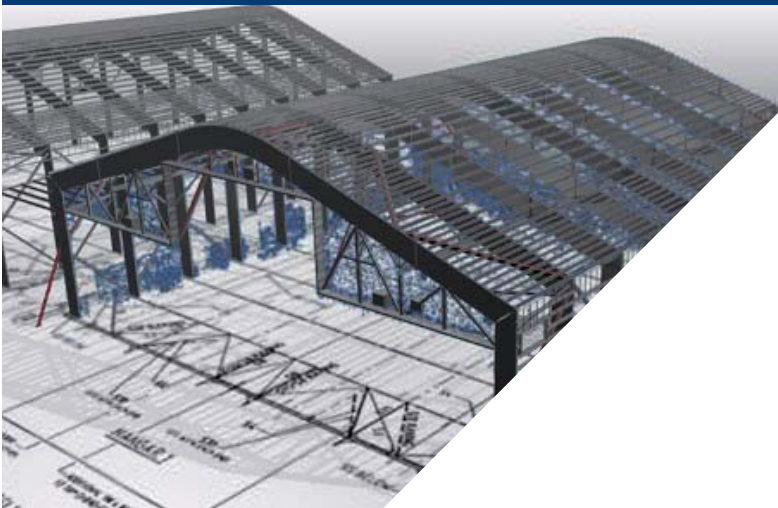
SERVICE SHEET

# 3D LASER SCANNING



## WHAT IS IT?

FYFE utilise the latest terrestrial 3D laser scanning technology to provide faster and more comprehensive data capture than traditional survey methods. Enabling non-contact measurement from a distance, laser scanning offers a safe and cost effective solution for capturing complex geometries in challenging environments including mine sites, road traffic, internal fit-out, building services above ceiling levels, plant rooms and hazardous areas.



# 3D LASER SCANNING

Fyfe provides extensive services for civil, engineering, mining, aerospace and construction projects:

- Topographical surveys
- Engineering setout surveys
- Photogrammetry and airborne laser scanning control
- Airport surveying
- City modelling and urban planning
- Bridge surveying and safety inspection
- Roadway and bridge surveying
- Precision 3D topographical mapping
- High accuracy 3D stockpile volumes
- Archaeology and cultural heritage
- Crime/accident scene documentation
- 3D as-built documentation
- Oil and gas piping surveys
- Detailed plant as-built surveys and redesign
- Detailed deformation monitoring
- Surface to surface comparisons
- High accuracy pipe flange tie-in survey

## RECENTLY COMPLETED AND CURRENT PROJECTS

- **Liquid recovery plant** - Cold box rebuild including as-built 3D survey of existing pipework and the setout of the new cold box and associated pipework
- **Moomba Airstrip** - Detailed as-built survey of airstrip pavement repairs and 3D laser scan of the airstrip surface for resheet design
- **Big Lake gas plant** - Complete 3D scan and modelling of existing pipework and plant equipment for detailed design of plant expansion
- **Della pig receiver** - As-built survey for retrofit of a new pig barrel to be fabricated offsite and installed without field fitting
- **Moomba plant vessel maintenance** - Deformation monitoring of a large piping vessel, including a baseline scan of the vessel followed by surveys during work, to determine accurate results by comparing 3D modelled surfaces
- **Townsville aircraft hangars** - As-built 3D scan of hangar structure and 3D modelling of structural steelwork from scans to allow detailing of structural modifications
- **Olympic Dam tank replacement** - Detailed 3D scan of existing conditions, allowing 3D modelling and detail design of new process tank and pipework

