



1 Pre Planning

- **Topographic Surveys**
- **Measured Building Survey**
 - 3D laser scanning
 - 3D modelling
 - 3D point cloud scans
- **Underground Utilities Detection**
 - GPR or electro-magnetic (EM) surveys
 - Utility services mapping
- **Boundary Surveys**
 - Checking boundaries against title plans
 - Boundary dispute resolution
- **Accurate Measured Viewpoints**
 - Accurate building placement within a land or cityscape

2 Site Preparation

- **Boundary Surveys**
 - Ground level and boundary check
 - Pegging out boundaries for fencing
- **Post Demolition and Regrade Surveys**
- **Site Clearance Relevel Surveys**
- **3D Ground Modelling and Volumetrics**
 - Calculation of materials for excavation
 - Cut and fill modelling
- **Topographic Surveys**
- **Underground Utilities Detection**
 - GPR or electro-magnetic (EM) surveys
 - Utility services mapping

3 On-site Construction

- **Setting Out for Construction**
 - Building positions
 - Pile foundations
 - Roads
 - Drainage
 - Grid lines
 - Floor levels
 - Bolt boxes for steelwork
- **Site Engineering**
 - Complex measurements for construction
 - Internal setting out within the structure to support modular building
 - Siting breakthrough holes in floors for services
- **3D Ground Modelling and Volumetrics**
 - Calculation of materials for excavation
 - Cut and fill modelling
- **Machine Control**
- **3D Laser Scanning**
 - 3D point cloud of internal layouts for design

4 Post Construction

- **Topographic Surveys for Road Adoption**
- **As Built Survey**
 - As constructed measured surveys at the end or during construction
 - Signing off building positions
- **Snagging**
 - Realign steel-work
 - Remeasure to check fabrication
- **3D Laser Scanning**
- **Deformation and Movement Monitoring**
- **3D Models and Scanned Point Cloud**
 - For internal floor layouts pre fit-out
 - For clash detection within BIM

Our Survey Services in the Construction Lifecycle



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