severn partnership

Case Study – Sheffield University

Scan2BIM

With advancements in technology, 3D laser scanners have become far more efficient and accurate, therefore reducing time spent on site, whilst enhancing quality. This has allowed the process of capturing data with 3D laser scanners very cost effective. While data collection is highly technical, one thing a point cloud is not, is intelligent. Ensuring that intelligent BIM models can be developed from scan data requires the experience of our Scan2BIM surveyors, who work very closely with our BIM specialists to ensure the final output is achieved to it's full capabilities.

Project Overview

Severn Partnership were instructed by Mace Group on two separate occasions to survey a number of buildings within the University of Sheffield campus. The Grade II listed campus buildings are due for refurbishment and therefore require accurate dimensional data to provided the basis of the re-design. Bond Bryan architects required a 3D model of each building to be created within Autodesk Revit and delivered in an IFC format to facilitate further asset management.

'Having worked with Severn Partnership since 2015, from which time they have provided Mace and our further education based clients with professional support in relation to measured surveying services, I can confirm their work has contributed to the successful delivery of major projects and would recommend them as a solid and reliable supplier.' - Mark Bainbridge, MACE.

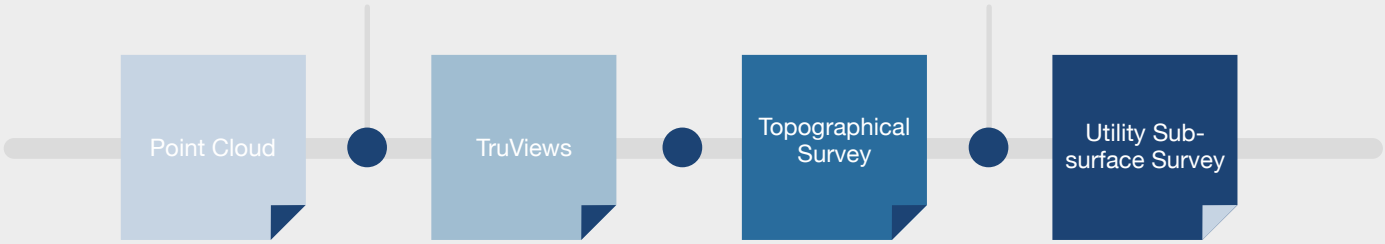
Project Facts

- Survey Control & 3D Laser Scanning - 2 weeks
- Z+F imager® 5010C & Leica P20
- Access arranged by Severn Partnership (no room closures necessary)
- Point Cloud Registration - 3 weeks (Leica Cyclone 9.1.4)
- 3D Modelling - 20 days

Deliverables

3 x 3D models in both native Revit formats, as well as IFC 2 x 3

2D drawings; elevations, floor plans, sections



Quality data measured safely delivered professionally on time

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THE SURVEY ASSOCIATION

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