

Using BIM 360 Field and Glue on Complex Station Repair Project

OSBORNE

BIM 360 Field and Glue were used to plan the works and capture onsite data for this complex station refurbishment project. The project helped to familiarise onsite teams with the BIM environment and to improve processes for data capture and use.

PROJECT	Portsmouth Harbour Station Stage 2
CUSTOMER	Network Rail
LOCATION	Portsmouth Harbour
CONTRACT	One Team Wessex Framework

Issue

Portsmouth Harbour was a large and complex BIM project. It involved repairing and painting over 300 columns underneath Portsmouth Harbour Station.

The existing 3D model was incorrectly designed and not to specification. Because of this, the high level of BIM required took longer to set up than planned. The onsite team was unfamiliar with working in a BIM environment, so project execution included multiple training sessions with the onsite team.

Solution

The project-specific BEP included a model development outline and specifications. There was a full team learning and training session with Autodesk to gain knowledge about the model creation process.

We successfully used our chosen CDE BIM 360 Field and Glue to hold the model and all the data captured on site including forms and photos. Just under 2000 pieces of equipment were created manually and then mapped to the model. We also recorded daily diaries on site using auto populated weather data.

Outcome

The project introduced the site team to working in a digital environment and built relationships between the BIM and site teams.

The project created a process improvement platform to learn lessons and enhanced the overarching BEP for BIM processes when using and designing a model. It also helped redefine BIM usage and pushed the software to its limits by thinking of innovative uses and problem solving work-rounds for the site team's needs.

The project also highlighted software limitations in Field, Glue and Navisworks, which were used to improve future planning and processes.

