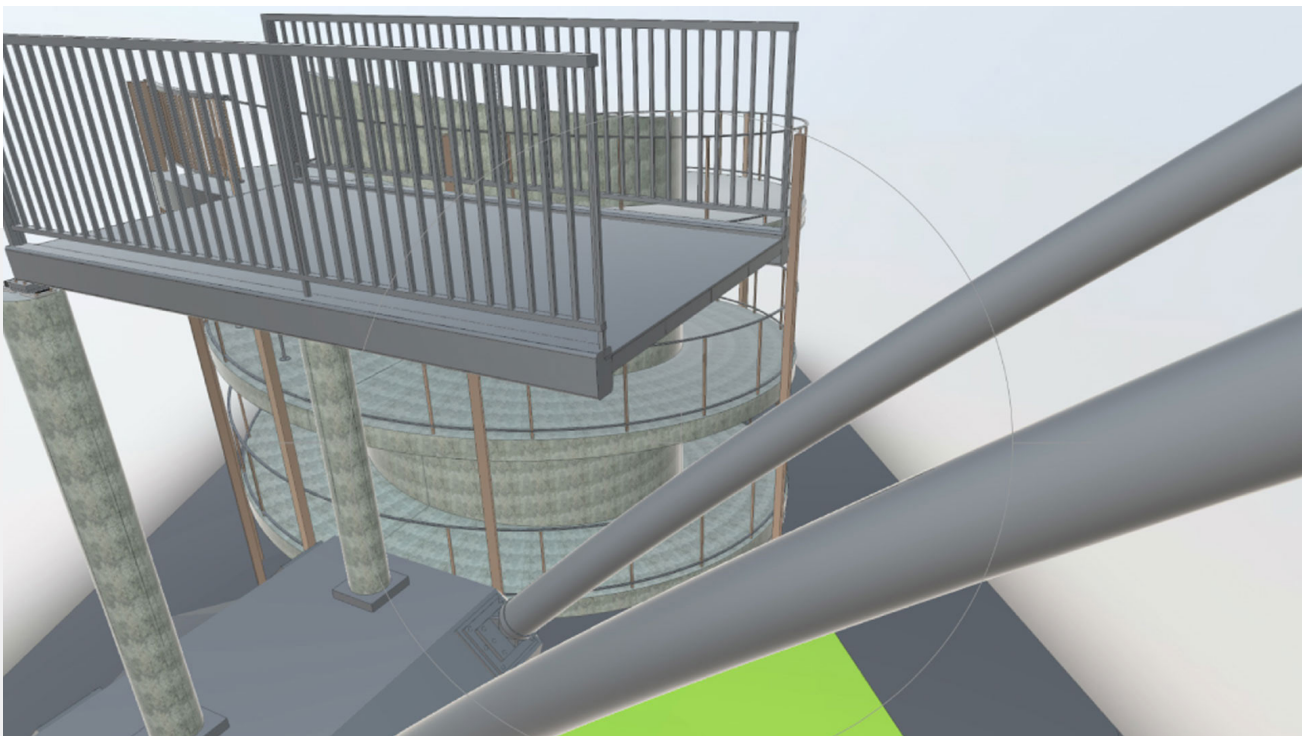


3D civil engineering model

3D Revit® model of Heath Town footbridge was created from a laser scan capturing engineering tolerances, as part of the council's residential regeneration programme.



Survey case study by
Iain Tubby
Principal surveyor
14/11/2019



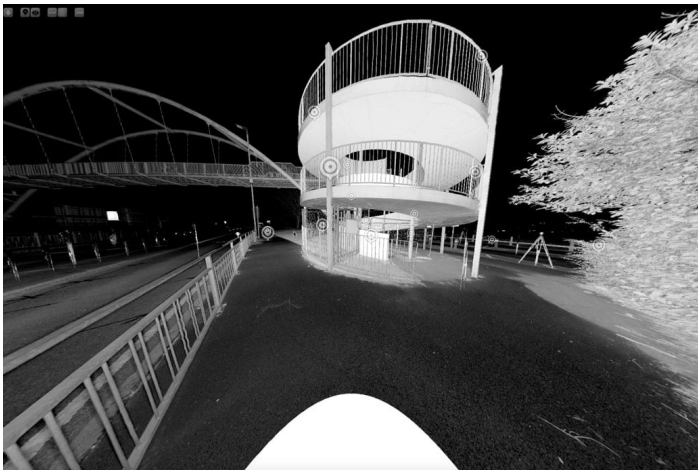
Highly accurate survey for engineering project

Structural steel fabrication company Nusteel approached CADS to laser scan Heath Town footbridge in Wolverhampton.

The survey was required as part of a residential regeneration programme by the Council which involved removing a section of the existing pedestrian bridge and joining the two retained structures together.

Detailed design for steel fabrication

Nusteel required a highly accurate measured survey of the structure already in situ, specifically the end of the structures where the new bridge parts would abut the existing. This was the first time the CADS survey team had worked with an engineering company on a civils project.



Project deliverables

Deliverables included an HD 3D model and point cloud data file which Nusteel used to produce a detailed design, calculation and loadings to fabricate a new bridge connection.

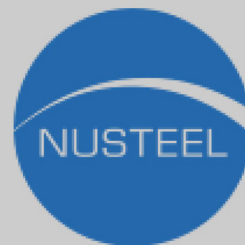
Model delivers confidence

David Harrison, Design and Drawing Office Manager, Nusteel Structures:

“The model is very impressive and we can now be more confident with on-site works”

**David Harrison,
Design and Drawing
Office Manager,
Nusteel Structures**

“The model is very impressive and we can now be more confident with on-site works”



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