

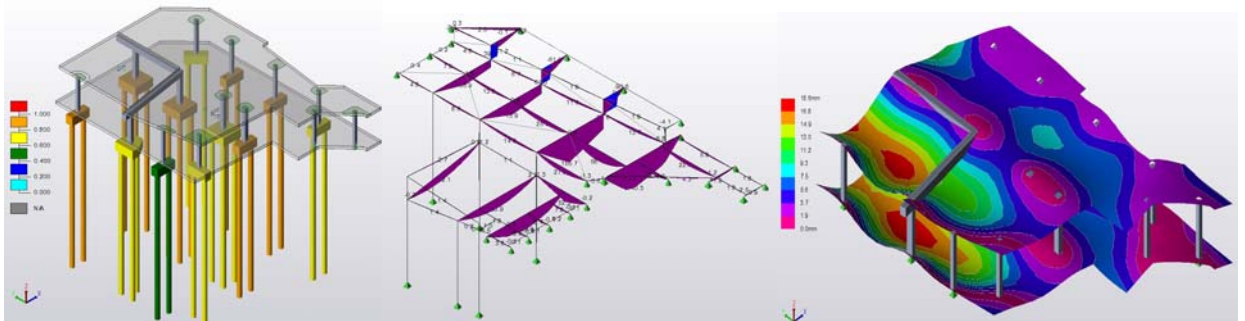
Project Case Study – BIM Northampton Museum

BIM FOR REFURBISHMENT PROJECTS:

Effective use of BIM was a key factor in delivering a complicated extension to the existing museum building in central Northampton. Working in close collaboration with the Architect, an accurate Revit model was developed by BCAL using integrated design software for a hybrid reinforced concrete & steel framed superstructure with piled foundations. BIM enabled the design team to carefully consider the nuances of the design & in particular the various interfaces with the existing building. 3D data in both native file format & model renditions were provided to subcontractors to facilitate their design & installation during construction as standard.



Architectural model with linked in structural model with regular data drops to maintain principal coordination throughout project



Images highlighting the various facets of the structural design model: 1. Piled 2-storey RC framed podium structure, 2. Clear-span steel-framed roof superstructure, 3. RC flat slab design using finite element analysis



1. Image of Architectural concept & 2. Semi-completed building on site in 2020