

## Clive Booth Student Village

Oxford Brookes University

Keller came up with a Rigid Inclusion solution to replace the original piled option for a site that occupied multiple levels. The solution accelerated the follow-on works and cut the overall programme.



### The project

The construction of three, five and six storey student residential blocks at Clive Booth Student Village which is part of Oxford Brookes University.

### The challenge

The main challenge was to provide a solution through the weak water-bearing Head and Temple Cowley deposits to support significant loadings, while accommodating multiple working levels and other subterranean constraints.

## The solution

RIs were installed beneath the raft foundations as illustrated below, providing support to heavy raft foundations with an average SLS of 100kN/m<sup>2</sup>. This solution also offered our client significant timescale efficiencies and cost savings over the original piled option. It also avoided clashes with old piles and new service routes.

## Project facts

### Owner(s)

Oxford Brookes Enterprises Ltd

### Keller business unit(s)

Keller UK

### Main contractor(s)

Morgan Sindall Construction & Infrastructure Ltd

### Solutions

Bearing capacity / settlement control

### Markets

Institutional/public

### Techniques

Rigid inclusions

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