



# BRITISH TUNNELLING SOCIETY

Tuesday 15th October 2019 at 6:00pm

The Great Hall, Sutherland Building, Northumbria University, Newcastle

## *BTS inaugural meeting in the North East*

**Tunnelling Under 21st Century Building Structures is not easy:  
Bond Street Station Upgrade and the infamous case of Avon House**

### Speakers

**Andy Clarke** (Costain), **Richard Totty** (Bachy) & **Paul Perry** (formerly HalcrowAtkins Design Alliance, now Hewson Consulting Engineers)

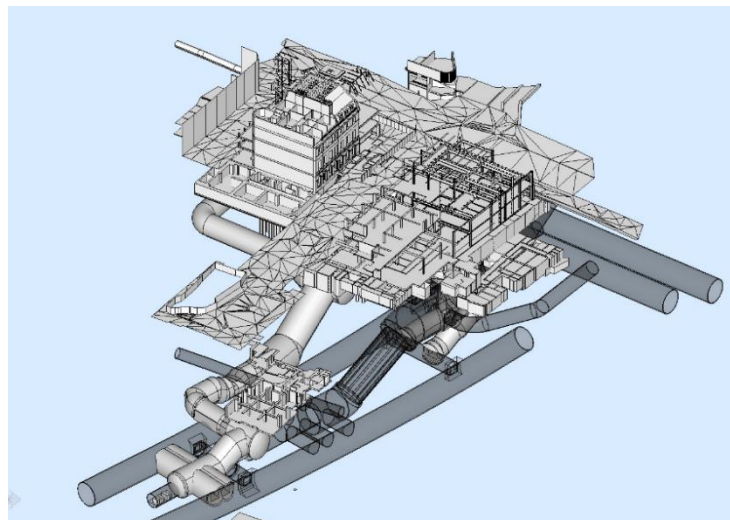


Image courtesy of Halcrow Atkins

Bond Street Station Upgrade was a complex project to extend the existing London Underground station with significant tunnelling and underground works to provide a new satellite ticket hall to the north of Oxford Street in London UK with an associated plethora of new passenger and station interchange tunnels. It was completed for Christmas 2017.

Building Damage Assessment was undertaken to ensure that appropriate action was considered to reduce the effect on the above ground buildings from the ground movements arising from tunnelling works.

One of these buildings, known as Avon House, is a 1930's steel framed building, altered over a number of years by the insertion of transfer beams in the upper floors to allow a more open space for this important Oxford Street Retail area.

Archive searches, supplemented by 3D Modelling and supplementary geotechnical and structural investigation, allowed the contractor, and his key sub-contractor, to make appropriate measures to protect the building during tunnelling. The presentation will describe the scheme, the building damage assessment and the mitigation taken from three members of the project team.

**This is a free event - advance booking not required**

**Tea and biscuits will be available at 5:30pm**

In case of any query please contact; [societyevents@ice.org.uk](mailto:societyevents@ice.org.uk)

or e-mail: [bts@ice.org.uk](mailto:bts@ice.org.uk)

or visit: [www.britishtunnelling.org.uk](http://www.britishtunnelling.org.uk)