

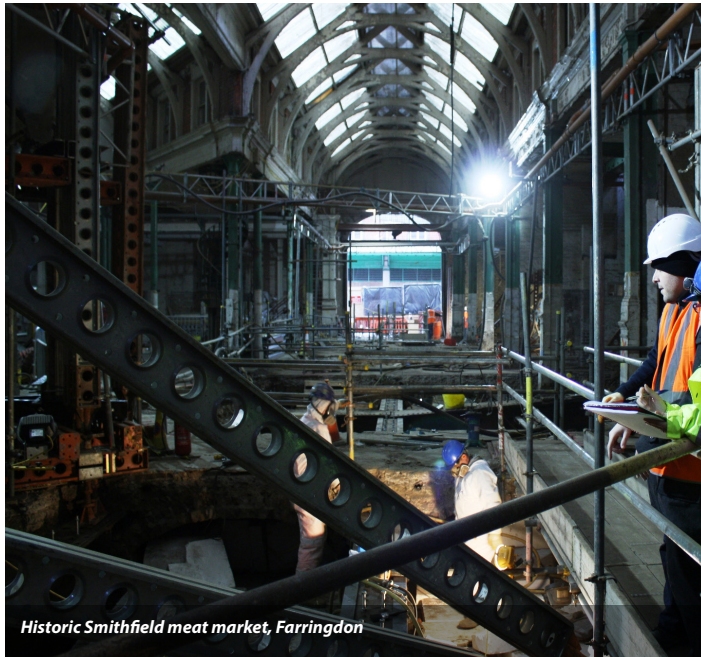
Smithfield Market Redevelopment

Client: (GVA) Second London Wall

Location: Farringdon, London

Value: £4m

Duration: 15 Months



In Brief...

As part of the development of a disused Victorian building that was part of the historic Smithfield meat market in Farringdon central London, Barhale was contracted to replace the tunnel crowns above the upgraded Thameslink railway lines which run beneath the building. Barhale were required to seal the site above from the railway corridor below with a reinforced composite concrete slab on the existing wrought iron/early steel girders in area D1 and on new steel beams in areas D2 and D3.

Customer Benefits...

- An innovative solution of a bespoke lifting system was used to install the beams, saving time and reducing risk
- HAVS monitoring - Specialist gloves were issued to the workforce for use when breaking out
- The work was undertaken during possessions and isolations of the railway and was completed safely and efficiently
- Asbestos was removed successfully without incident

Technical Features...

The scope of works included:

Area D1

In Area D1 the existing brick jack were broken out and the existing primary and secondary girders were utilised to create a new composite deck. Shear connectors were then installed in the girder rivet holes and profiled sheeting spanned between to act as permanent formwork and enable construction of the concrete slab.

Area D2

In Area D2 the existing concrete deck units were supported on steel beams that form the tunnel lid. These were broken out and removed. New steelwork is to be positioned at a lower level between the existing primary girders, with shear connections already positioned. Profiled sheeting spanned between to act as permanent formwork and enable construction of the concrete slab.

Area D3

In Area D3 new steelwork was positioned between the existing primary girders, with shear connections already positioned. Profiled sheeting spanned between to act as permanent formwork and enable construction of the concrete slab.