

## Project Profile :: Railways

# Farringdon Condition Survey and Thameslink HV Cable Route Design

Client: Network Rail

### Scott White and Hookins' Role:

 Civil Engineering

 Structural Engineering

Scott White and Hookins have undertaken a number of designs, assessments and condition surveys as part of the Thameslink upgrade works at Farringdon.

Design works included a new cable gantry overbridge supported from the existing Clerkenwell Bridge, undertrack crossings, steelwork design to the new Crossrail interchange station extension and numerous other design elements. The design elements included obtaining all approvals under both NWR and LUL procedures, supervision of elements of the work on site and production of as built information.

Structural assessments of a number of existing buildings were required where the works impacted on adjacent buildings. This included emergency monitoring of bridge soffits where falls of loose material onto the track were reported.

The surveys covered demolition of existing structures, existing bridges, ticket halls and lineside structures. The surveys were required to record the structural condition both prior to works being carried out and during works. The reports were also used to inform the main design regarding the likely adequacy of the existing structures to support additional loads prior to carrying out full assessment surveys. The surveys comprised simple photographic detail surveys to full structural condition surveys recording the form and arrangement of the existing structures.

