



Walsingham House, London, UK



PROJECT SUMMARY

PROJECT: Walsingham House

YEAR: 2009

CLIENT: City Inn

MAIN CONTRACTOR: Laing O'Rourke

CONSULTANT: OVE ARUP & PARTNERS INTERNATIONAL LTD

INSTRUMENTATION CONTRACTOR: Site Engineering Services



OVERVIEW

The project involved the construction of a high quality, 11-storey, 584-bed hotel in the City of London, adjacent to Fenchurch Street Station and close to existing rail tracks and Walsingham House.

Facilities of the hotel include reception, café, restaurant and bar at ground level; meeting rooms on the first floor; and further meeting rooms and bar at rooftop level where there is a glazed 'Skylounge' offering views over the Tower of London and the city's financial district.

MONITORING

In order for construction to take place, it was necessary to demolish an existing building which exposed the whole of the east elevation of Walsingham House. Monitoring of the adjacent party wall during underpinning and construction of the new basement up to ground level was carried out.

Monitoring ran for 8 months demonstrating that the wall was stable although some settlement (<3mm) was detected during the underpinning stage, particularly on the unsupported sections of the wall.

The data was uploaded to the data logger and available in 'real time' for the client and contractor to view via SES visualisation software.

PRODUCTS USED

MEMS (Bussed) 3m tilt beams

Used to monitor movement along the whole length of the wall.

GeoLogger

14 channel data logger used to collect data and upload to the internet.