

# CASE STUDY

## CITIBANK & MARCONI HOUSES, 332-336 STRAND LONDON WC2

**Cantillon undertook this complex demolition project on one of London's busiest thoroughfares, including the erection of a bespoke façade retention system at Marconi House. The asbestos removal, soft strip, and demolition works were followed by an extensive ground works package, which was partnered with our approved contractor O'Keefe Construction Greenwich Ltd.**

### **Client:**

Grupo Urvasco Ltd

### **Principal Contractor:**

Cantillon Ltd

### **Contract Duration:**

62 weeks

### **Contract Value:**

£7,300,000



The majority of the existing structure was demolished by Cantillon Demolition to enable the construction of the new 11-storey hotel.

Our enabling works package involved the retention of the original 1903 facade around the former Marconi House, as well as construction of a three storey basement below pavement level.

The temporary works associated with the demolition and retention scheme included the retention frames and support structures for the retained facade, and all propping and excavation sequencing of the basement construction. The Portland stone facade is Grade II listed and has very tight movement restriction tolerances. This required the temporary works to be designed predominantly for stiffness and to account for all external influences on the structure. Detailed FE analysis of the combined effects of the demolition, deep excavation, jacking and propping installation had to be completed to ensure the deflections and movements at every stage in the retained works remained acceptable.

The temporary works also had to be designed to accommodate the large forces generated by wind loading on the 3000 square metres area of exposed facade.

A bespoke fabricated steelwork system was chosen in favour of a hired proprietary system given the uncertainty as to the length of time the temporary works would be in operation. This also permitted flexibility to suit the non-uniform arrangement of facade windows and to thread the works between on site obstructions such as protected trees and buried services.



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