

# CASE STUDY

## AYBROOK STREET, LONDON W1

**The façade retention scheme was designed to support the elevation of the existing building along Aybrook Street whilst the remainder of the building was being demolished.**

**Client:**

The CIT Group

**Principal Contractor:**

Cantillon Ltd

**Contract Duration:**

26 weeks

**Contract Value:**

£1,160,000



In designing the steelwork, allowances had to be made for the extensive services in the pavement as well as part of pavement being vaulted. The foundations to support the steelwork was a grillage system so as to spread the load of the steelwork, any wind loading as well as the imposed load from the structure being retained. Additionally a concrete wall 2m high and 450mm deep was constructed running parallel to the retained façade to act as kentledge to prevent the turning moment of the façade lifting the steelwork. Internally the basement retaining wall was supported by means of a series of raking shores. These were anchored down using large pad foundations constructed below the proposed basement slab level and avoiding future load bearing pile positions so as not to cause any obstruction to the construction works.

**Cantillon carried out the demolition of the existing buildings retaining the existing façade. This included:**

- Type 3 asbestos survey and asbestos removal
- Soft Strip of the building
- Design and erection of façade retaining scheme
- Diamond cutting of World War II bunker
- Demolition of structure
- Removal of foundations of previous building
- Protection and retaining of EDF substation during demolition
- Preparation of site for piling contractor
- Reduce level excavation and provision of 500mm concrete mat

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