

55-57 BURTON ROAD

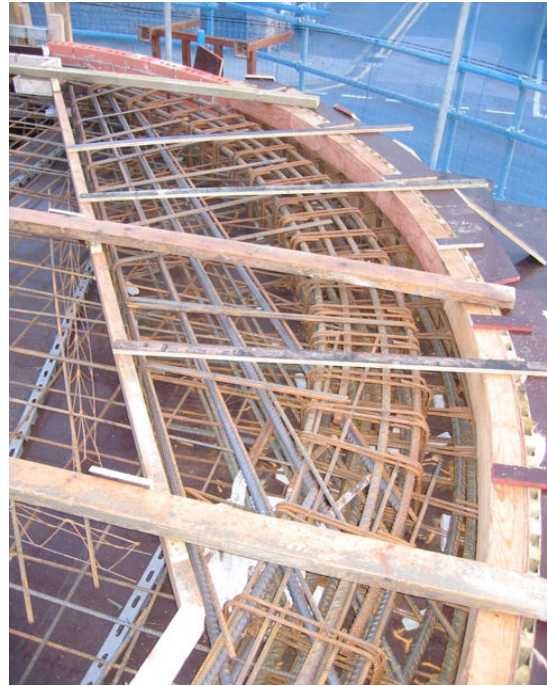
CLIENT:	DAYLE PROPERTIES LTD
SECTOR:	RESIDENTIAL
LOCATION:	NOTTINGHAM
VALUE:	£1.2M
DATE:	2007-08



This scheme involved the construction of a four storey apartment building on a site immediately adjacent to a Grade II listed mill building, with roads on the other three sides.

The bottom floor provided car parking for the 12 apartments above together with space for services, meters and bins. The car park layout placed severe restrictions on the use of columns, and also on the available headroom.

A reinforced concrete solution was therefore chosen for the lower parts of the structure to allow the transfer of the complex load pattern from the apartments above into the loadbearing external walls and internal columns. Exposed reinforced concrete elements were also used for the cantilevered overhanging section of the first floor above the car park entrance.



Careful investigation of the ground conditions and of the foundations to the adjacent building were required to allow the design of appropriate foundations and to satisfy the requirements of the Party Wall Surveyor.

Architectural considerations required the top floor apartments to be housed in an inset structure, for which a steel portal framed solution was used. Columns were carefully positioned on the precast floor units to allow the loads to be transmitted into loadbearing masonry on the floors below.

In summary, this apparently straightforward project involved a wide range of structural materials and techniques. Innovative design was required to arrive at a workable solution.