



Client: North Star Projects
Project Value: £3.5m
Project Details: Construction of a 72-bed care home with nursing facilities in Loughton, Essex. Constructed across three floors and with exceptional communal spaces.

To design the civil and structural engineering aspects of the 3-storey executive care home to accommodate the surrounding constraints.

- To provide foul and surface water drainage design to accommodate the existing nursing home rooms and communal facilities
- All rooms were equipped with their own bathrooms which required outlets along with internal hairdressers and kitchen facilities.
- Surface water attenuation was incorporated into the designs to avoid flooding within the system.
- In addition, we provided structural design and details to facilitate the architectural proposals for the ground first and second floors along with all access arrangements including staircases and external balconies.
- Foundations were designed to accommodate the extensive existing trees within the boundary which resulted in deep trench excavation.
- All floors were designed as pre-cast concrete and supported on masonry and steelwork when required.

