
PROJECT NAME:

University Of Gloucestershire, City Campus

CLIENT:

University Of Gloucestershire

LOCATION:

Gloucester City Centre

CONTRACTOR:

Morgan Sindall

CONSULTANT:

ARUP MEP, Bristol

The project consisted of the refurbishment of the old 5 storey Debenhams Building in Gloucester City Centre, changing its use from a retail to teaching facility for the university's healthcare and general teaching departments, and the separate tenancy fit out of a section of the building for the local authority public library.

Dodd Group was involved with the project from stage 2 concept and performance specifications to the full stage 5 final design. We worked in conjunction with the client's consultant ARUP to stage 3 providing cost planning and assistance in the design development to achieve a practical workable design to the client's budget.

The fit out consisted of the full MEP services installations, heating, cooling, ventilation, drainage and sanitary ware. The main heat source was via roof mounted 2MW ASHP providing both heating and cooling through a four pipe fan coil arrangement. Ventilation was via localised MVHR heat recovery supply and extract ventilation units, served via main ducted extract and supply risers. With the focus on energy efficiency and funding via Salex grants domestic hot water systems designs and installations were via Mitsubishi Q-Ton ASHP systems to serve all areas.

Electrical installations included the HV substation, LV infrastructure via multiple rising bus bar systems to feed fit out areas and future use areas to provide flexibility for the shell & core tenant areas. Full LED lighting with daylight dimming and occupancy controls were provided to ensure energy efficiency and compliance with the SALEX grant energy targets were achieved. Small power and data infrastructure was provided via underfloor bus bar and floor boxes to provide future flexibility for the university layouts in the fit out and future phase tenancies. A fully integrated fire alarm, access controls and CCTV systems were provided to meet the university's security requirements also aligned and integrated into their existing building networks for compatibility. All plant and infrastructure was designed to accommodate the future fit out of shell & core areas on the 2nd and third floors.

With an existing building fabric consisting of 1870's, 1930's and 1950's construction the fixing and support of the services required extensive survey and design. The main services within plant rooms and risers were provided with independent support systems from the floor slabs through the full height of the building. Due to deficiencies in the floor slab loading capacity services installed through the open area floor plates were provided with extensive spreader support frameworks to spread the load of heavy plant across wider areas of the structure.