



| PDG Architects
| Education

| Graduate Study Centre
| Wolfson College, Cambridge

Brief

The Practice was approached and appointed by Marriott Construction to provide architectural services under a design and build contract.

The project is an extension to the south of the existing Western Fields building located on the Wolfson College campus. The building was designed by a Concept Architect to match and blend with the existing building stock and comprises of 3 storeys with a basement to part.

Solution

The new building contains 20 standard bedrooms and 28 large bedrooms all with en-suite facilities, administration rooms, conference rooms and ancillary accommodation.

Construction details are similar to the existing building to achieve a high quality appearance, consisting of facing brick and artificial stone elevations, precast concrete floors and a steel/timber roof structure with terne coated stainless steel finish. The dome construction is a steel structure with timber decking and lead coverings. The structural form of the superstructure is largely dictated by the proposed use of the areas. The control core is framed in structural steelwork with columns clad in reconstituted stone and precast concrete floors. Elsewhere masonry cross-walls at relatively close centres support precast floor slabs spanning at right angles between. The roof areas are generally symmetrical duo pitched in form, with timber joists supported on steel purlins. There is a small area of flat roof at the junction of the pitched roofs and the dome. The dome is supported off a steel structure with lead covering on timber decking. Prefabricated Bathroom pods have been used

Externally reconstituted stone ribs span from a ring beam to the apex. These ribs are self-supporting and do not form part of the dome structure or covering. The foundation design is divided into two distinct areas. Foundations in areas where there is no basement are constructed with a reinforced concrete shallow raft foundation. The basement construction is sheet steel piles with a concrete ring beam and steel cross beams providing support to the superstructure over.

The mechanical and electrical installations are generally an extension to the systems in the existing building. The main conference rooms (dome room and round room) have comfort cooling and mechanical ventilation systems.

Project details

Client: Marriott Construction
Contractors Architect
Address: Wolfson College,
Cambridge
Value: £
Completion: 2003



PDG ARCHITECTS

Toll Bar House
Shrewsbury Avenue
Peterborough PE2 7BX
Tel: 01733 371000
Fax: 01733 370666
Email: design@pdgarchitects.co.uk
www.pdgarchitects.co.uk