

Sheen Mount Primary School: Richmond

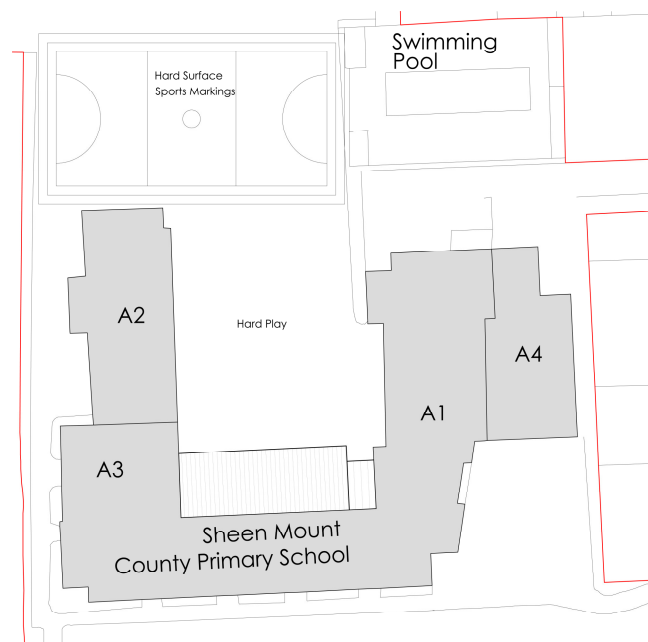


Description of the Project

Erection of a 2 storey extension to accommodate 4no. new classrooms, 3no. Of which for the additional shared form of entry for 2012 (accelerated programme Nov 2011) and an administration office. The requirements for the classrooms are part due to the LBRuT PCP programme requirements and part due to providing new accommodation for existing pupils.

The project brief is to:-

- Provide 4 additional classrooms of approximately 60m²
- New Administrative Office



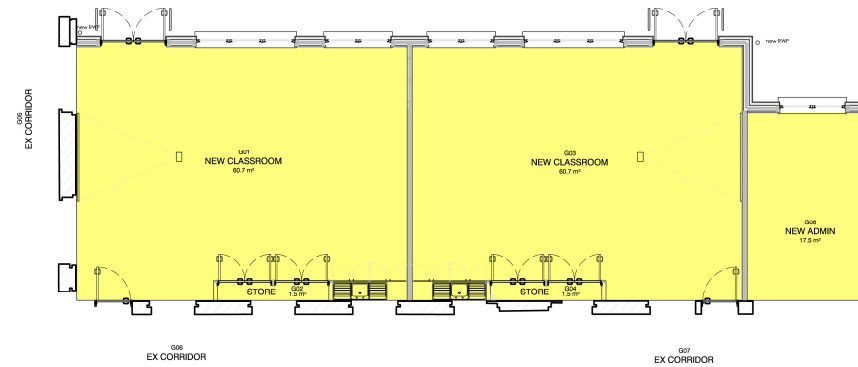
Ground Floor Plan
(Site Plan)

The key innovative and low-impact design features of the building

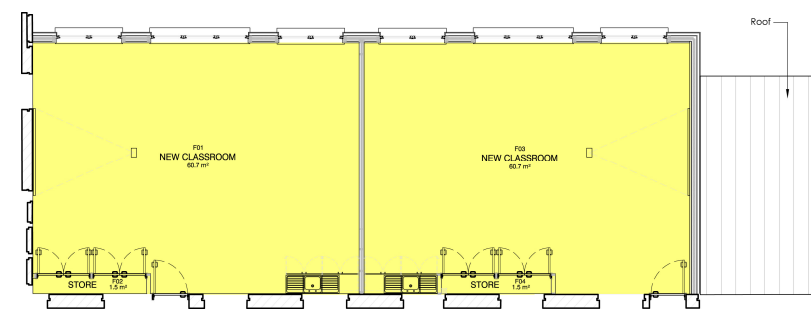
The new extension is design to be very thermally efficient to reduce heat loss. The main structure is to be constructed from environmentally friendly timber cassette panels with hemp insulation and timber cladding.

Each classroom has large windows to achieve maximum amount of natural day lighting with, the elevation is north facing reducing any solar glare.

These assist in achieving the client's aspiration of a BREEAM 'very good' rating.



Ground Floor Plan



First Floor Plan

Building Facts

The BREEAM (Building Research Establishment Environmental Assessment Method) rating for the building is targeting to achieve 'Very Good' circa 58.46%.

The building has been designed to maximise natural daylight and ventilation to reduce the carbon emissions.

The construction is anticipated to cost £1,070.48/m²

The Building Services (M&E) is anticipated to cost £239.96/m²

External works are expected to cost £33.96/m²

The Gross new floor area is 270 m²

The Total floor area is 2191.7 m²

The Total Site Area is 1.3848 hectares

4 new Classrooms = 60m²

Total Area of New storage = 6m²

The annual water consumption is TBC ³/person.

The predicted electrical consumption TBC kWh/m²

The predicted fossil fuel (natural gas) consumption TBC kWh/m²

The predicted total energy consumption TBC kWh/m²

A site Waste Management scheme is in place for the construction to recycle and reuse construction and demolition waste.