

New Broadacre Primary School



Location:
Hull, East Riding of
Yorkshire



Client:
Sewell Construction /
Esteem / Hull City
Council



Architect:
NPS



Value:
£8 million



Civil Engineering

Structural
Engineering

Building Consultancy

Geotechnical and
Geoenvironmental
Engineering

Project Management

Specialist services

Hull City Council / Esteem proposed a new primary school to replace the existing primary school, which was deemed no longer fit for purpose.

This three storey building offers a new sports / events hall, SEND department, staff offices, external play areas and three storeys of modern teaching spaces.

Engineering and Design Factors

The structural design for the building consisted of a composite deck and steel frame construction, as was developed to maximise the free area on each elevation to make space for combined natural and mechanical ventilation louvres and windows to maximum the light reach into the floor plan.

Keeping the structure clear of all internal spaces as a result of the stepped façade was a challenge Alan Wood & Partners successfully overcame through the use of BIM and clash detection techniques, delivering a structure that works seamlessly with the Architecture throughout.

Description of the Works

Alan Wood & Partners provided support on this project in the form of our Geotechnical, Civil and Structural specialisms to deliver a BREEAM 'Very Good' facility that is serving the community and will continue to do so for decades to come.

Core services

Civil Engineering / Structural Engineering / Geotechnical and Geoenvironmental Engineering

Sectors

Education