

## EXPERIENCE

### Back Pool Fold Manchester

**Client:** Dr Lance Knight

**Cost:** Approx £1.5m

**Director (SSCE)**

Redevelopment of historic Manchester city centre building. Originally built in 1811, the building has undergone extensive remodelling during its life and having been unoccupied for over 15 years the condition of the existing building was in very poor condition upon purchase.

Structural works required included detailed survey, material testing, extensive masonry strengthening and the installation of new floors and structural supports.



### Yosgol Yr Hendre

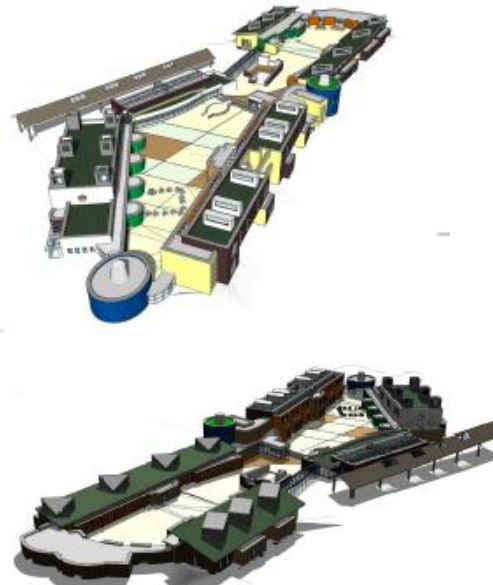
**Client:** Wynne Construction

**Cost:** Approx £7.0m

**Director (SSCE)**

SSCE works for this development included the full structural design of all substructure and superstructure elements for part two storey and part single storey buildings as part of this educational development.

The superstructure elements are a mix of SIP structure systems with some localised steel framing.



## EXPERIENCE

### Sandfields

**Client:** Neath and port Talbot Council

**Cost:** Approx £6.5m

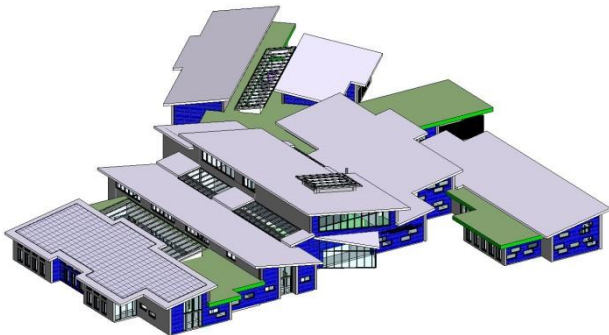
**Director (SSCE)**

SSCE works for this development included compiling the tender package for full structural design of all substructure and superstructure elements for part two storey and part single storey buildings as part of this educational development.

The superstructure elements are a mix of SIP structure systems with some localised steel framing.

Roof systems comprise of prefabricated insulated timber cassettes.

All works for the project have been developed using Revit Structures 2011.



### Hemmings House

**Client:** Mr Paul Hemmings

**Cost:** Approx £0.5m

**Director (SSCE)**

Full substructure and superstructure design and detailing for contemporary private residence in Liverpool.

The structure comprises of a mix of SIP structure systems with some localised steel framing.



## EXPERIENCE

### L&Q Dartford

**Client:** Hemsec Installations

**Cost:** Approx £3.5m

#### Director (SSCE)

Full substructure design and detailing for 4 storey residential development built off a concrete transfer deck.

The structure comprised engineer SIP load bearing panels and steel transfer beams.



### Pegasus Town, Canterbury NZ

**Client:** Infinity Developments Ltd

**Cost:** Approx £240m

#### Job Manager (structural) / Project Manager (Beca)

Responsible for delivering the structural engineering elements for the development of the well publicised Pegasus Town development IN Canterbury NZ, including residential developments, infrastructure buildings, above ground reservoirs, bridges, subterranean car park and commercial buildings. The development was in a seismic zone with high liquefaction potential. This role was part site and part office based with direct communication with the Client and site project management team for over 2 years. My primary responsibilities were:

- Internally manage and co-ordinate the delivery of multi disciplined design elements, ensuring that the client's requirements were met whilst internally managing resources and budgets.
- Organising and reviewing tender packages for various design packages, reviewing the compliance and methodology of designs and construction programmes.
- Attending client meetings to report of progress and address any design/construction interface issues. Such meetings were also held regarding the master-planning and programming of works and interfaces
- Manage internal design team workshops for co-ordination and planning of delivery of design.
- Attend site meetings for various design elements, assessing subcontractor performance and programmes against contract documents and best practices.
- Carry out continuous site inspections of works, reporting findings and managing rectification where necessary. Some site inspections and reviews were done with local authorities to ensure compliance with planning requirements.
- On site meetings with food health authorities and local authorities to ensure compliance.
- Carry out continuous site inspections of works, reporting findings and managing rectification where necessary and detailing revised details where applicable.
- Project budget and programme monitoring including variations for report to Lead Project Manager.



## Manchester Schools

**Client:** Manchester School BSF

**Cost:** Approx £320m

### Lead Structural Engineer (Cundall)

Structural Team Leader for a 5 year master plan upgrade and redevelopment of Manchester's education base – providing a structural and civil design role for the main contractor, based on a BSF partnering contract between the local authority and Balfour Beatty Construction Group Ltd. As part of my involvement I led the structural discipline on a team wide innovation group, tasked with meeting and reviewing new technologies and subcontractor performances. The main I roles that I contributed to this were as follows:

- Structural lead for 'Project innovation group' – reviewing sub contractor products and services.
- Lead Structural Engineer for first two schools in the framework, internally managing the delivery of the structural designs.
- Attending Client and design team meetings.
- Attending risk assessment and value engineering meetings.
- Attendance at pre-start meetings and co-ordination workshops.
- Assistance in subcontractor final account disputes.
- Carry out continuous site inspections of works, reporting findings and managing rectification where necessary



## Boxworks Manchester

**Client:** Urban Splash

**Cost:** Approx £6m

### Lead Structural Engineer (Whitby Bird)

- Civic Trust Award 2004
- IStructE Medium sized Building Award 2005
- RIBA Award 2003 ... regional
- The Roses Design Award 2002 -- best regeneration scheme ... commendation

Lead Structural Engineer - A key regeneration project on the banks of the Bridgewater Canal in Castlefield which was the first phase of the regeneration master-plan by Urban Splash. At the beginning of the project, the building inherited comprised a 1930's cotton mill with part steel, cast iron and load bearing masonry construction. Detailed appraisal and sympathetic detailing allowed the installation of two additional floors as well as finely detailed mezzanines to create loft style apartments within a unique building space.

- Structural lead for whole project from concept to handover
- Internally managing the delivery of the structural designs.
- Attending Client and design team meetings.
- Attending risk assessment and value engineering meetings.
- Carry out continuous site inspections of works, reporting findings and managing rectification where necessary





## Midland Hotel Morecombe

**Client:** Urban Splash

**Cost:** Approx £4m

**Lead Structural Engineer (Whitby Bird)**

Structural Engineer for the refurbishment of the iconic Grade II listed 'Art Deco' Midland Hotel, to form a modern hotel facility. The major works involved the installation of a new sundeck level and complete renovation of building envelope. This building is currently being considered for 3 RIBA awards.



## Harperley Hall

**Client:** Centrex

**Cost:** Approx £6m

### Lead Structural Engineer (Cundall)

Project Engineer - Employed as specialist structural and civil consultant by the Home Office to produce a "very good" BREEAM standard training facility for the forensic police department. The scheme delivered a solution that has now been adopted as the template for the next generation training facilities. My primary responsibilities were:

- Client specialist representative, reviewing consultant design.
- Reviewing tender documentation for content and comparing against client requirements
- Attending Client and design team meetings, in addition to risk and value engineering workshops
- Site monitoring of build and attendance at site meetings to review progress, costs and quality.



## Irk Valley Manchester

**Client:** Urban Splash

**Cost:** Approx £3.2m

### Lead Structural Engineer (Joule)

Led Structural Engineer - Redevelopment of 3 iconic 1960's 14 storey concrete framed council owned apartments into private residential units. The dwellings had been disused for over a decade as part of the City Council's 1990's re-housing programme and had formed a blot on the east Manchester city landscape. Detailed structural repairs were required to provide the building performance requirements necessary for the ambitious Architectural design.



## Chorlton Park Housing

**Client:** Urban Splash

**Cost:** Approx £4.0m

### Lead Structural Engineer (Whitby Bird)

- RIBA Award 2003 - regional
- The Roses Design Award 2002 -- best residential project
- RIBA/DOE/NHBC Housing Project Design Award 2001 -- National Housing Design Award

Project Engineer - Designed by Stephenson Bell architects for Urban Splash and Irwell Valley Housing Association, the development was completed in 2002. The site of a disused petrol station was redeveloped to produce two low-rise timber-framed apartment buildings with flats overlooking Chorlton Park adding a new contemporary style element to the mostly Victorian Manchester suburb of Chorlton. Balconies supported on a framework of bare wood look out across the park. To deliver the necessary level of heat retention, the walls and floors were made of sealed units filled with insulating material. Each unit is formed from timber joists some 300mm deep, set close together and sandwiched between floorboards or sheets of marine ply.

