

BROADGREEN SITE REDEVELOPMENT – MAIN CONTRACT WORKS

Client: Royal Liverpool & Broadgreen University Hospitals Trust & The Cardiothoracic Centre - Liverpool NHS Trust

Architects: Nightingale Associates

Consulting Engineers: Alan Johnson Partnership

Value: £63M

Duration: September 2003 – September 2006

The Project

With an area of over 25,000m² and a value of £63M, this major redevelopment is by far the largest and highest value project delivered through the Department of Health's ProCure21 Framework.

BROADGREEN
HOSPITAL
REDEVELOPMENT

“To bring a project of this size in on time and within cost is a major achievement - and one which is pretty rare in my experience.”

ROGER JAMES
CHAIRMAN
THE ROYAL
LIVERPOOL AND
BROADGREEN



The Facilities

The development provides the Royal Liverpool and Broadgreen University Hospital NHS Trusts with a dedicated treatment centre which includes:

- Orthopaedic, Urological and Surgical facilities
- General and Acute Wards
- Day Surgery Unit
- Cardiothoracic Centre
- Catheter Laboratories
- Critical Care facility
- Out-Patient Department
- Health Records Department

The scheme makes good use of the sloping site and makes extensive use of natural light, courtyard landscaping and colour to enhance the patient environment, aid wayfinding and create a high quality working environment for staff.

One Site, Two NHS Trust Clients

This project involved co-ordinating with, and meeting the distinct needs of two NHS Trusts, for facilities on one site.

Shared Facilities

Shared facilities are accessible from both sides of the development but are designed to meet different needs, established through consultation with clinical staff.

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HOSPITAL
REDEVELOPMENT

“The relationships have been excellent and whilst the project was underway there appeared to be minimal disruption to the day-to-day workings of the existing hospital.”

ROGER JAMES
CHAIRMAN, THE
ROYAL LIVERPOOL &
BROADGREEN



Keeping the Live Hospital Working

We recognised from the outset that hospitals and construction seldom mix, and provided an ‘invisible’ presence on site. We established a separate site-entrance, segregating the hospital completely from construction activities.

Specific problems such as working in close proximity to ‘live’ operating theatres were overcome by providing additional methods for sound-proofing and early warning procedures to halt works if necessary.

The First True 'Barn Theatre' in the UK

The Barn Theatre enables four operations to take place at the same time, in the same room – overseen by one Consulting Surgeon. The operating spaces are separated by 'air curtains' to ensure the highest standards of hygiene.

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"It's based on the Schultheiss clinic in Zurich, so now people in Merseyside will have the same care as people going to a private Swiss clinic."

DONAL O'DONAGHUE,
SURGEON.



State-of-the-Art Materials

Conventional operating theatres in the UK consist of plasterboards on metal studding. Following a visit to a world-leading specialist in Zurich, we chose a prefabricated state-of-the-art polyester, powder-coated stainless-steel solution.

"One of the main worries people have when they come in is picking up a hospital bug, and everything down to the skirting boards has been created to be easier to clean."

Judith Adams, Nurse, Broadgreen Hospital

Three Lorries Transported the Entire Theatre Complex

We constructed the shell, whilst the manufacturer prefabricated the theatres in kit-form, guaranteeing quality. Three lorries transported the entire theatre complex, material stage was minimised, and the risk of disruption to the hospital was reduced.

Twenty-Five Different User Groups

The scheme is now being used by twenty-five different user groups. These groups range from outpatients and therapy through to critical care, operating surgeons and catheter lab users.

Engaging the User Groups

To provide the best possible facilities we engaged the hospital staff and patients by holding meetings at an early stage to facilitate input. We worked together with the user groups to create plans for each department which made the best use of space available.

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Reducing Patient Journeys

Our healthcare planning realised an incredible 10% reduction in overall area and has substantially reduced circulation space within departments – reducing patient journeys.

Health and Safety

We achieved over 750,000 man-hours worked without a single accident. This was formally recognised by the Trusts who awarded a commemorative plaque.



BROADGREEN
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REDEVELOPMENT

“The site management was obviously excellent, as evidenced by the lack of accidents amongst the workforce – nearly one million hours without a reportable accident.”

ROGER JAMES
CHAIRMAN, THE
ROYAL LIVERPOOL &

Sustainable Development

We provided a Combined Heat and Power (CHP) plant which provides the necessary energy requirements and also creates a surplus of power which can be sold to the National Grid.

Both internal and external walls received an ‘A’ rating in the ‘Green Guide to Specification’.

All timber was sourced from managed forests.