

Building the healthcare of the future



Building the
Leeds Way

September 2021
Stakeholder briefing

I'm delighted to be able to share with you the latest concept designs from our newly-appointed architects, Perkins & Will, led by Penoyre & Prasad with Schmidt Hammer Lassen, for our new Hospitals of the Future project on the Leeds General Infirmary site.

They have come up with some innovative designs that have taken on board our wish for new hospitals that have patients and staff at their core. Indeed, the designers have also embraced the concept of airy rooms and buildings, green space and landscaping – something that we wanted reflecting in this landmark design in the centre of Leeds.

The project to build – for the first time in Leeds - a new children's hospital, as well as an adults' hospital in a 94,000 square metre building at Leeds General Infirmary, is still at a very early concept stage but we're continuing to make great progress and you'll have noticed how far we have come in preparing the Leeds General Infirmary site for the next phase of this project.

We have spoken many times before about future-proofing our buildings and making sure that they are cutting edge and at one with the environment. I hope you'll agree that the new designs reflect this with their emphasis on creating green pockets, a landscaped garden and roof-terraces.

These are still very much first concept designs, and subject to change as we go through an engagement process with patients, staff, the public and our partners, but we are confident that we will have new hospitals for the people of Leeds and beyond that they can be proud of for generations to come.

Our Trust is already a leading light in the field of innovation, research and education and we believe our new hospital project will further enhance that reputation. The new development will also give us the opportunity to redevelop our old hospital estate as part of a Leeds Innovation District, bringing about direct and wider economic benefits of up to £11.2bn in net present value terms and more than 3000 jobs.*

We have made great progress, and over the coming months the Trust will continue working in collaboration with the Department of Health and Social Care (DHSC) and NHS England (NHSE) to ensure that the proposals adopt the newly developed national design standards and ambitions in connection with sustainability, digital and other hospital design principles.

We're keen to hear your views, and there will be opportunities over the coming months to engage with us and for you to have your input in these new designs.

Dame Linda Pollard DBE DL Hon. LLD
Chair, Leeds Teaching Hospitals NHS Trust



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**As indicated in an independent economic impact assessment report.*



Designs with patients and staff at their heart

Children will experience a hospital made for them. Parents-to-be will be provided with an intimate, non-techno-clinical environment - though such medical capability will be instantly to hand if and when they need it.

Adult patients using the Jubilee Wing, or those coming to any of the services such as the Outpatient Department or the Hand Unit, will find a direct path to the services they need.

The history of the hospital has not been forgotten, and the new design emphasises this and respects the original architecture. The designers have also used "healing landscapes" as their inspiration, creating a park outside the entrance as a stimulating landscape framing the eastern side of the retained Gilbert Scott Building.

" A vital feature of the proposed design is the innovative way it provides for the patients to be accommodated spatially in the building. The proposal is for a single hospital site within which are nested three distinct hospital areas – children's, adults, and maternity services.



Children will also have access to garden terraces where they can feel a greater sense of long-term comfort and belonging and enjoy space to play and have ample fresh air.



Large bright entrance


Leeds children's
hospital

caring about children



A Hospital made for children & young people

We continue to engage with children and young people and their families and carers on what a new Children's Hospital will mean to them, with outside and play spaces as well as airy rooms already coming across as one of the most important aspects.



Our designers have created a new hospital that is made for children and young people and will be friendly, supportive and generous. Many elements of the design also have long term patients in mind, understanding that for these children, the hospital will be home for extended periods of time.

The entrance to Leeds Children's Hospital will provide easy navigation so

that young patients and their families can find the way to their appointments.

Inside the Children's Hospital there will be an urban forecourt which leads to each of the departments along short streets so there isn't far to travel. The departments will be built in sculptural towers shaped like two boomerangs back to back, creating a convenient entrance that takes children and their

families up to one of six different levels.

Daylight has also been incorporated into the design with plenty of light to the rooms, some with magnificent views across the City of Leeds.



Adult hospital



The departments in the new adults' hospital - including women's and a general outpatients department - are on three levels, with a glazed courtyard at each level with short journeys to each of the departments.

The building has been designed around the needs of patients making sure it enhances their experience, for example by ensuring there are short journeys to each area.

Other adult services are approached via a separate lobby and are found on separate floors of the building, making connection with existing theatres and wards easier.

An Urgent Treatment Centre and the Children's Assessment Centre are located in the new hospital, immediately adjacent to the Jubilee Wing.

The new adults' hospital on the LGI site also includes one of the largest Maternity Centres in the country and will provide an environment that is safe, secure, comfortable and relaxing, providing choice and control whilst welcoming the whole family.



maximised
daylight



theatres and
wards are easy
to access



smart digital
or self-check-
in stands



New Maternity Centre



For many women, their connection to the hospital will be one full of good health and happiness whilst for others, the journey to delivering a healthy baby may be an anxious time.

The design of the new Maternity Centre and Neonatal Unit is aimed at revolutionising what women and their families experience before, during and after their time in hospital.

The Maternity Assessment Unit, Consultant-Led and Midwife-Led Units, a central induction unit and the Neonatal Unit will all be located together in the new hospital. This will provide access to specialist birthing facilities and clinical teams in one place and help to ensure the safe transfer of newborn babies who need intensive care after birth in the Neonatal Unit.

This floor also benefits from south and east facing green terraces, providing natural light and a connection to nature.

The birthing and associated spaces are near the core which connects with a network of streets that lead to the Maternity Assessment Unit, the Midwife and Consultant Led Units, and the Neonatal Unit with its varying provisions for acuity. The deeper areas of the plan have rooflights above these streets. The internal courtyards together with the planted fringe on three edges will create a variety of spaces to help accommodate and support the wide variety of experiences associated with birth as outlined in the architectural brief. The

Maternity Ward is designed to have maximum garden access and is immediately above the birthing departments. The maternity lifts arrive at a south facing foyer as at all levels of 'the stack' and onto two thirty bed inpatient units, one on each side.



Sustainable new hospitals

Sustainability is at the forefront of the new hospitals' design, with the carbon impact of the building minimised through the selection of materials and use of more natural light.

Collaboration between the designers and Leeds Teaching Hospitals puts sustainability at the heart of everything. The designers have created a long-life building that is adaptable to the changing nature of healthcare.

The aim for net zero operational carbon, conserving resources and using nature-based solutions features in the Perkins & Will design.

Having a patient-centred approach has also led to the design of a building with plenty of natural light to reduce the use of artificial light and

introduction of levels of daylight to much of the building, especially to the ward areas. Heat will be preserved through high levels of insulation and window areas that balance the penetration of daylight and heat loss.

Building materials will be carefully chosen with sustainability in mind. The rooftop and plaza gardens have been designed around the surrounding nature and tradition, and local plants and trees are incorporated into the design. Existing gardens dotting the campus are more traditional and will be preserved, and the creation of new green spaces is in line with Leeds's commitment to become carbon neutral by 2030.

The building will be constructed in layers and will aim to use components and services that encourage the conservation, re-use and recycling of resources and the minimizing of waste.

An innovative approach to the hospitals' relationship with its community goes beyond the site boundary, ensuring that the project plays a positive role in the community long after construction is completed.



A future-proofed Digital hospital

Our designers have used digital to influence the design of the hospitals, both in their delivery and their operation and maintenance.

We know that technology and digital can advance very quickly, and there are lots of opportunities in healthcare where new and innovative solutions will improve the experience of patients and staff.



In the new hospitals patients and visitors will be able to use digital to help them find their way around the hospital and know where they need to be for their appointments. This will be a much better experience for people in being able to have more control as well as more easily and quickly access services at what can be a difficult time.

Advances in technology will play a key role in healthcare over the next 20-30 years and the designers have considered the relationship between design and digital as

we move towards our digital hospitals of the future.

The solution will require collaboration with staff and patients across the design and embedded from the outset. At the heart of creating a SMART Building is an Information model that can grow throughout the design stages, and then be capable of being maintained and adapted to the ever emerging technology.





Creating an exceptional place to work

Staff well-being is a key element of the Trust's design brief, and aims for a healthy, clinically efficient and thoughtful design that looks to the future of best practice and innovation.

The aim of the design is to help clinical, support, and administrative staff in their healing mission to deliver excellent care to their patients by adopting state of the art, safe, efficient, digitally enabled clinical and operational design.

Among the innovative design is a proposed separate staff roof terrace and sky garden - providing a view of green spaces so that it creates a pleasant working environment.

It will offer staff a different way to experience the skyline of Leeds city centre, while providing an outside space so they can take some time away from clinical areas.

The proposed design also maximises daylight, enabling staff to work in a bright airy environment with views of outside greenspace.

The ambition of the designers in transforming the scale of the hospital has been to create a feeling of belonging in each of its users - from the experience of patients and families, of staff and caregivers - to the wider community of Leeds.



Creating a new Innovation District for Leeds

As demolition continues to prepare for building the new hospitals, the Leeds General Infirmary site is already revealing how its transformation will not only benefit patients from Leeds and Yorkshire but could also create around 3,000 jobs and deliver up to £11.2 billion net present value as part of a new Innovation District for Leeds.

This is an exciting, strategic partnership between Leeds Teaching Hospitals NHS Trust, Leeds Beckett University, the University of Leeds, Leeds City Council and the private sector to drive regeneration, innovation and economic growth for Leeds and the wider region.

Anyone who works at Leeds General Infirmary, or who has been a patient or visitor, will know it is a large hospital occupying an extensive site and incorporating the current Leeds Children's Hospital.

A mix of old and new, the site brings together some of the most historic buildings in Leeds - like the original Victorian Infirmary designed by celebrated architect Sir George Gilbert Scott - with contemporary, bold designs like the new cardiac Hybrid Theatre at Leeds Children's Hospital.

Yet, a sizeable amount of the old estate at Leeds General Infirmary cannot be used for modern patient care because it isn't up to today's exacting healthcare standards. Other parts of the site will become redundant when the new hospitals are built.

The LGI Development Project aims to release the potential of this estate – around five hectares in total – to support the growth of the Leeds Innovation District.

It offers a number of exceptional opportunities for mixed-use development, creating spaces for education, innovation, commercial uses including retail and office space and accommodation. It is also a chance to sympathetically redevelop some of the wonderful heritage buildings on the site and bring them back to life.



The transformation could:



create around
3,000 jobs



deliver up to
£11.2 billion
net present value



This briefing is the latest update on our exciting Building the Leeds Way programme. Look out for further updates as our work continues.

For further information about the Building the Leeds Way programme and Hospitals of the Future project, visit:
www.leedsth.nhs.uk/about-us/btlw

To find out more about Building the Leeds Way, please email:
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