

Luton & Dunstable University Hospital Redevelopment

Public Consultation

25th November 2019





Content

Time	Discussion Topic
6pm	Welcome and Introduction
6.05pm	Scheme overview
6.10pm	Architecture
6.25pm	M&E, Civil and Structural
6.30pm	Planning
6.35pm	Programme
6.40pm	Q&As
7.15pm	Close





Welcome and Introduction





David Hartshorne, Programme Director Melanie Banks, Deputy Programme Director Charles Frampton, Senior Programme Manager























Scheme Overview





The L&D

- Catchment 320,000
- Population: Luton, Bedford Borough and parts of Hertfordshire and Buckinghamshire
- Luton and Bedfordshire one of the fastest growing areas in the UK. Population growth over the next 5
 years expected to be around 18%, close to double the national average
- Medium sized District General Hospital
- Circa 800 beds
- Circa 4200 staff
- tertiary services: bariatrics, limb fitting, gynaecology, NICU, Maternity
- Specialist services support c.1m people
- Best performing hospital in the country (financially sound, best ED), with one of the worst hospital estates





TRUST STRATEGY

Substantially redevelop the hospital site to...

- 1. Tackle backlog maintenance and reduce risk in the highest risk areas;
 - a) Critical care
 - b) Maternity
 - c) NICU
 - d) Theatres
- 2. Enable transformation of elective surgery through colocation of theatres
- 3. Address national workforce challenges through a modern, flexible design
- 4. Increase capacity
- 5. Improve sustainability and efficiency
- 6. Maintain and improve quality standards Support patient centred clinical services, with care delivered in modern, uplifting and fit for purpose environments
- 7. Enable advances in medicine and technology





The Challenge

- The hospital is land locked and developments have not adhered to a master plan
- Untidy and ageing estate we cannot support patients and their relative sin the way that we want to. This challenge staff to provide the care and level of service that they want to.
- Clinical adjacencies challenged some patients have to travel outside to get from A-B
- Acute care facilities do not meet necessary standards
- Patient and staff satisfaction is negatively impacted
- Backlog maintenance c. £80m
 - · buildings difficult to maintain
 - presents daily risks
 - stifles service development and innovation
- Patients are ageing and getting more acute
- Medicine and technology is advancing at a rate we cannot always keep up with
- Patient expectations are growing





The Journey so far...

2015 / 2016

Mar - Oct 2015 Hospital redevelopment Design completed Apr 2016
Planning
Permission
Granted by LBC

2016 Engaged market 2016 No funding



2017 / 2018

Asked to resubmit Capital requirements 2018 No funding



2019

Aug 2019 Funding approved







SCHEME OBJECTIVES

Delivery of:

- 1. Acute services block
 - a) Maternity services delivery suite, 3 operating theatres, midwifery led birthing unit, triage, bereavement
 - b) NICU intensive care, high dependency care, special care, transitional care, parental accommodation
 - c) Maternity wards antenatal and postnatal wards with pre-operative lounge
 - d) Surgical arrivals and recovery
 - e) Operating theatres 8 new operating theatres, including hybrid and interventional theatres, first stage recovery
- 2. Critical care block
 - a) A 22 bedded critical care unit for intensive care patients and high dependency care patients
 - b) Offices for circa 150 staff to allow the old office block to be decanted and demolished
- 3. Multi-storey car park on Lewsey Road providing a total number of 1,600 parking spaces across the site
- 4. Energy Centre (CHP, centralisation of boilers and standby power generation)
- 5. Helipad with fast access lift shaft

Supported by:

- 1. Programme of electrical infrastructure upgrades
- 2. Transfer of Obesity outpatient services to Travelodge
- 3. A number of time critical enabling schemes across the site e.g. roadways, demolition, offices







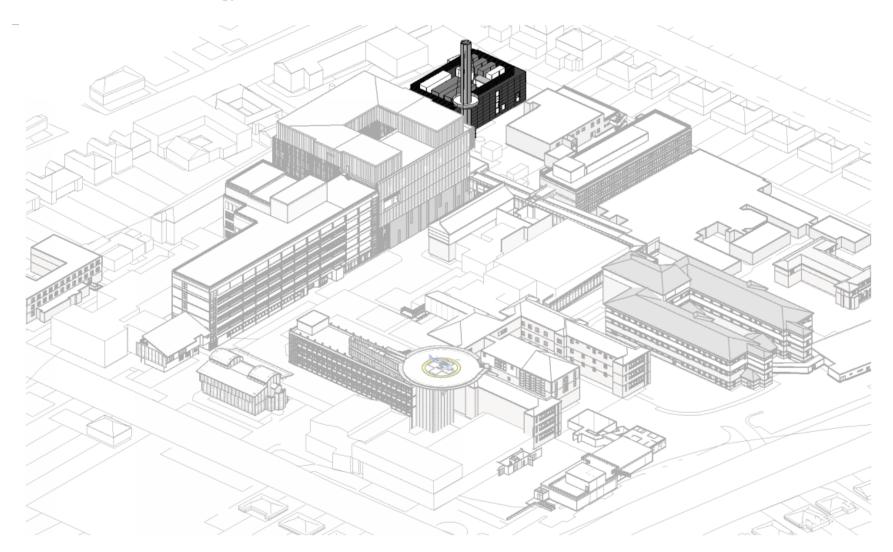








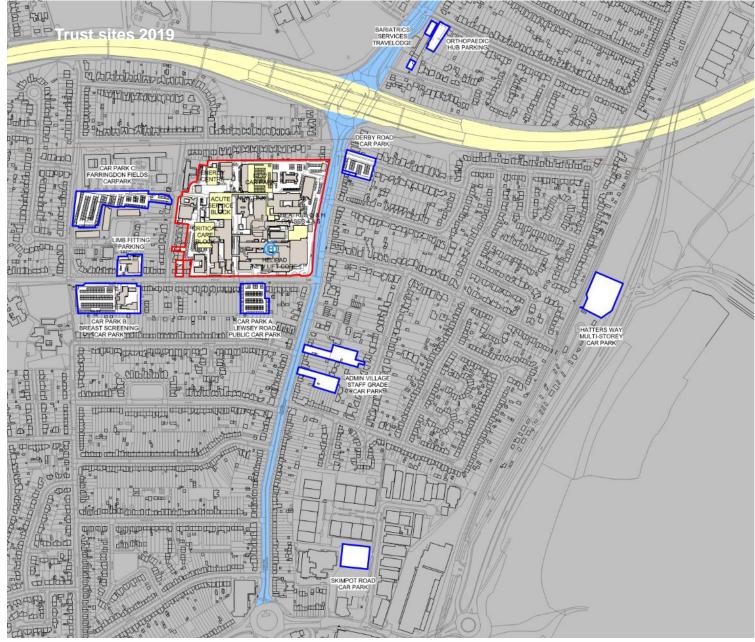
Scheme 1: Energy Centre



Aerial View Future



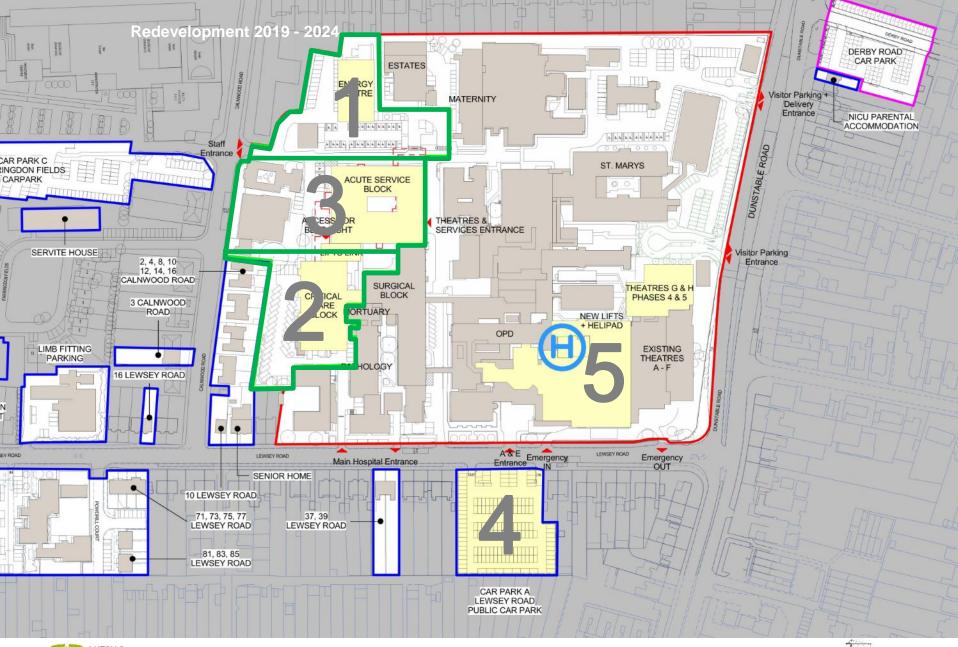








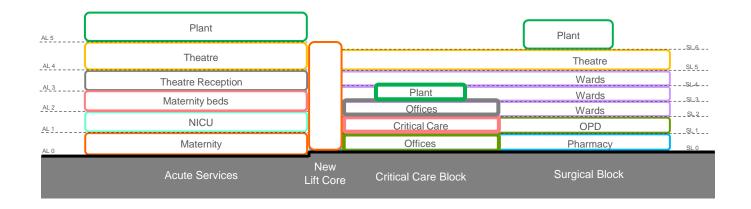
© Crown copyright and database rights 2019 OS Licence







Schemes 2&3: Acute Services and Critical Care Blocks - schematic section





Critical Care Block





Scheme 2: Critical Care Block or CCB – ground & first floor plans Critical Care



Critical Care;

22 beds in total - all level 3

4 x four bed bay

4 x ensuite bedroom

2 x ensuite isolation bedroom





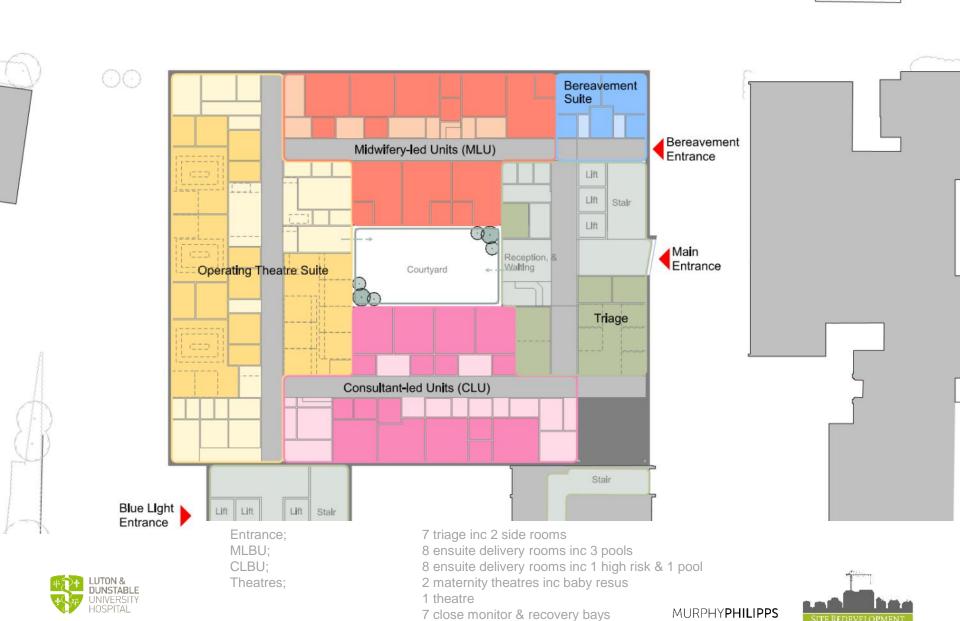
Acute Service Block





CLINICAL EXCELLENCE, QUALITY & SAFETY

Bereavement suite;



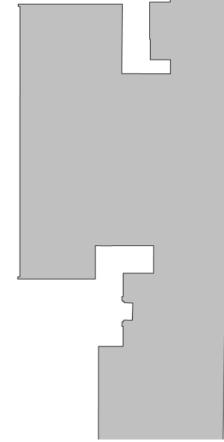
2 ensuite rooms

Scheme 3: Acute Services Block or ASB – first floor plan NICU





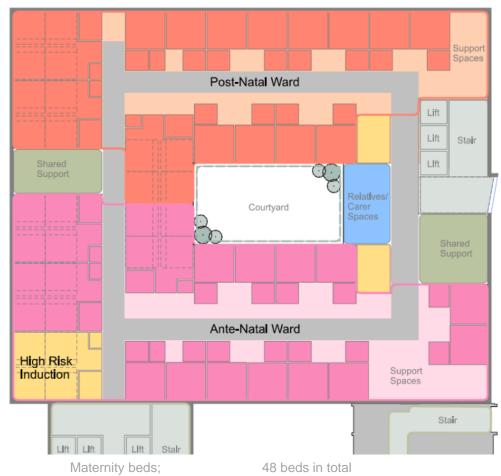
Critical care; SCBU; Transitional care; Relatives support
2 ensuite rooming in rooms
25 critical care cots - all level 3
19 cots, 3 side rooms & 1 isolation room
8 bays, 1 side & 2 ensuite rooms







Scheme 3: Acute Services Block or ASB – second floor plan Maternity beds







24 ensuite bedrooms & 4 four bed bays inc 1 isolation & 1 separation room

4 high risk induction beds (1 four bed room)

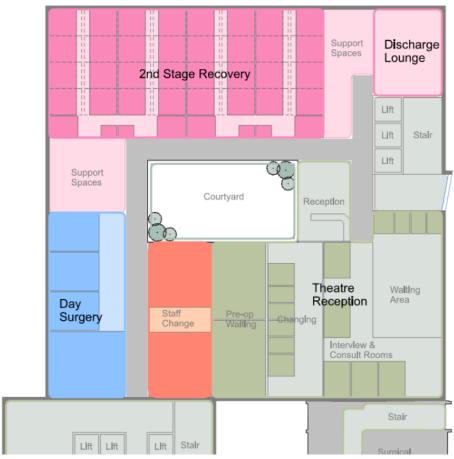
1 treatment room (laser)

1 neo-natal treatment room



MURPHYPHILIPPS

Scheme 3: Acute Services Block or ASB – fourth floor plan Theatres reception





Pre & post gowned areas 3 clean rooms (gynae) 32 second stage recovery Discharge lounge









Helipad



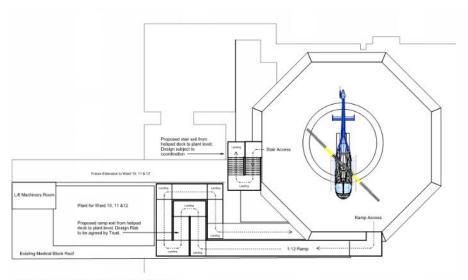


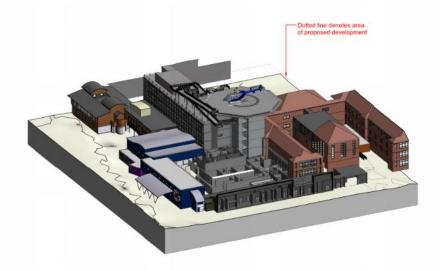






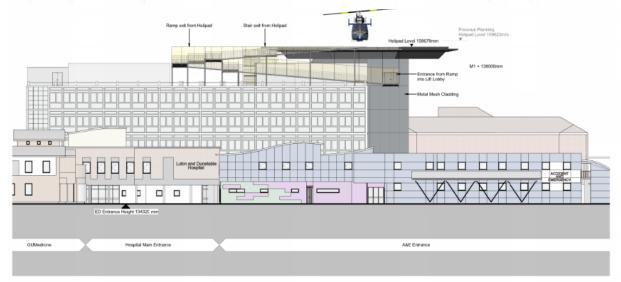
Scheme 5: Medical Block Rapid Lifts & Helipad





Proposed Helipad General Arrangement

Proposed Helipad Axonometric View





Proposed Helipad Elevation- Lewsey Road



Proposed Helipad Elevation- Dunstable Road





Mechanical and Engineering Civil and Structural





Mechanical and Electrical Site Wide Infra Structure Upgrade Case for change

- · Removal of backlog maintenance
- · Replacement of ageing equipment
- Increase electrical capacity
- · Compliance with HTM
- · Improve resilience
- Support future capital projects
- · Centralization of heat generation plant
- · Income generation
- Reduction in energy usage







Civil and Structural Where we are to date

- Good ground
- Foundations generally expected to be pads bearing into fractured rock chalk. Ground water 10m+ down. Little significant contamination.
- Working up site wide drainage strategy and starting to agree design parameters with Water Boards
- Structures generally steel framed
- Energy centre steel frame, 170 thick concrete / metal deck upper slabs. Ground bearing RC floor. Pad foundations other than the chimney. High loadings.
- Helipad steel structure on a braced steel frame. Piled foundations because of uplift.
- New CCU and ASB likely RC frame to address vibration responses required by HTM 0801 and flat slab type
 where possible to keep floor plates shallow and for ease of services distribution and future flexibility.
- Lewsey Road Multi-Storey Car Park Steel framed, concrete / metal deck. Long span column free space to facilitate easy circulation and parking.







Car Parking







Scheme 4: Lewsey Road Car Park

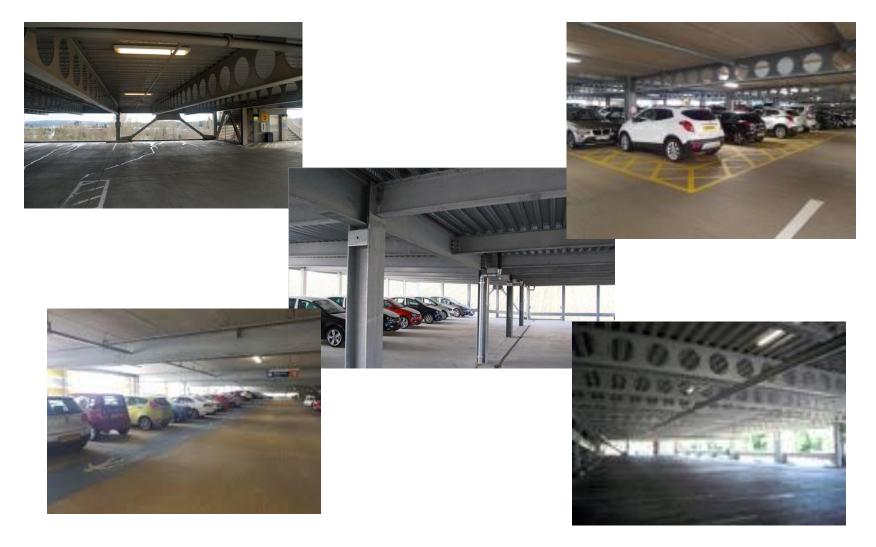


Lewsey road public car park; circa 300 bays over ground plus 2 floors





Lewsey Road MSCP - Clear open spaces to enhance user experience





CLINICAL EXCELLENCE, QUALITY & SAFETY





Programme





Programme

Critical Care Block programme:

25th November 2020 – public consultation 17th January 2020 – planning submission Mid April 2020 – planning determination expected May 2020- Discharge of conditions June 2020– commence works on site

Acute Service Block:

Works to commence 2021

Enabling works:

Feb 2020 – temporary accommodation installed on site Feb 2020 – works commence on temporary car parking April 2020 – demolition works commence

Lewsey Road Car Park:

June 2020 - works to start





How to find out more

Visit the hospital site redevelopment pages on our website: www.ldh.nhs.uk

Stay informed via our Ambassadors magazine for members Get live updates on twitter and facebook



