Brighton & Sussex University Hospital

Construction Environmental Management Plan and Construction Phasing Plan
Regional Centre for Teaching, Trauma & Tertiary Care known as the 3Ts Programme

Project Address: Eastern Road, Brighton BN2 5BE

Principal Contractor: Laing O’Rourke Construction (LOR)
Presentation Content

1.0 Project Milestone Dates
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### 3Ts Project Milestone Dates

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<th>Programme period:</th>
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<td>Enabling Works – Locate Existing Services</td>
<td>26/08/15 – 22/04/16</td>
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<td>Stage 1 – 12 storey building</td>
<td>01/04/16 – 23/04/20</td>
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<td>Stage 3 – single storey units + service yard</td>
<td>27/06/23 – 02/07/24</td>
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(2.0) Scope of Works – Site Plan
(2.0) Scope of Enabling Works – Bristol Gate Drainage
(2.0) Scope of Enabling Works – Install Service Gantry

Royal Alexandra Children’s Hospital

Thomas Kemp Tower
(2.0) Scope of Early Works – TKT / Helideck
(2.0) Scope of Early Works – Energy Centre

3-D images of completed Thermal Energy Centre
(2.0) Scope of Stage 1 Works
(2.0) Scope of Stage 2 Works
(2.0) Scope of Stage 3 Works
Pavement Closure (for each concurrent Stage) - Hoarding 300mm back from kerb line
(3.0) 3Ts Project Logistics – Early Works
Pavement Closure (for each concurrent Stage) - Hoarding 300mm back from kerb line
(3.0) 3Ts Project – Tower Cranes – Stage 1
Pavement Closure (for each concurrent Stage) - Hoarding 300mm back from kerb line
(3.0) 3Ts Project – Tower Cranes – Stage 2
(3.0) 3Ts Project Logistics – Stage 3 Works
(3.0) 3Ts Project Logistics – Logistics Holding Facility

Traffic routes between Devil’s Dyke Holding Facility and RSUH R2

Devil’s Dyke Logistics Holding Facility

Royal Sussex University Hospital
(3.0) 3Ts Project Logistics – Traffic route from site
(3.0) 3Ts Project Logistics – Park & Ride

Traffic routes between BRFC and RSUH

Brighton Blues Rugby Football Club

Royal Sussex University Hospital
(4.0) 3Ts Project Protection of the Public

• All operations fully risk assessed – public safety paramount
• Traffic Marshals to ensure vehicles enter and leave the site safely
• Secure site access via Aurora ‘facial recognition’ full height turn-styles
• Best practice methods monitored by Considered Constructors Scheme
• No parking for construction / delivery vehicles on public roads
• Regular visiting HGV & PCV drivers to attend Driver CPC Safe Urban workshop
• Public and Emergency Vehicles given priority at all times
• Clean roads policy – wheel wash and road sweepers
• No reversing onto public roads

Sliding site vehicle access gate

Aurora pedestrian access security system in hoarding line
(4.0) 3Ts Project Protection of the Public

• Dust suppression in accordance with BS:6187:2000, Control of Pollution Act 1974, Environmental Protection Act 1990 and Local Guidelines
• Noise mitigation as BS:5228 (Noise & Vibration on Construction Sites).
• Catch fans or crash decks installed where necessary
• No lifting over people
• Warning signage and adequate lighting
• Neighbourhood liaison including Hospital Liaison Group Meetings
(5.0) 3Ts Project Traffic Management & Vehicle Routes

- 80-100 no planned deliveries per day
- “Juggler” web-based interactive delivery coordination system
- Delivery Driver Instructions + Map provided prior to arrival on site
- All deliveries held at remote Logistics Facility until site can accept delivery
(5.0) 3Ts Project Traffic Management & Vehicle Routes

• Security manned access and egress gates
• Traffic Marshals to control vehicle movements and ensure clean wheels on exit
• Physical segregation of pedestrian routes from vehicle
• No parking or reversing for construction / delivery vehicles on public roads
• Public and Emergency Vehicles given priority at all times
• Provision of adequate signage and lighting
• Continuous H,S & E monitoring of the site environment including perimeter
(6.0) 3Ts Project Waste Management

• Demolition materials will be crushed off site and re-used on site as hardcore
• Waste such as plastic, cardboard & timber protection will be minimised at source through agreements with Laing O’Rourke supply chain partners
• Waste skips on site: Mixed Waste / COSHH / Scrap Metal
• Dedicated Site Logistics Team to manage waste collection
• “Juggler” system to coordinate skip delivery/collection
(6.0) 3Ts Project Waste Management

• Licensed Waste Management Contractor employed to remove & recycle
• Waste stream separation at remote waste transfer station
• Waste Management Contractor to provide certification and waste collection and recycling data to monitor performance against kpi’s
• Target >97% waste diverted from landfill
(7.0) 3Ts Project Working Hours

Monday – Friday
7.00 am – site open for mobilisation and preparation, including transportation of operatives from logistics area to site, daily activity briefings and training
8.00 am – commencement of construction activities, with vehicle movements onto and around the site
6.00 pm – conclusion of construction vehicle movements on site
7.00 pm – site security enabled and final operatives transported back to logistics area

Saturday working hours as above but concluding at 1pm.
(8.0) 3Ts Project – Main Site Accommodation at St Marys
(8.0) 3Ts Project – Main Site Accommodation at St Marys
Eastern Road / Bristol gate proposed junction design
(9.0) 3Ts Project – Highway Works

Proposed highway realignment at Eastern Road / Freshfield junction – widen road + finishes and signal modifications
3Ts Project – Highway Works

Eastern Road / Arundle Road traffic signal design – finishes and traffic signal installations
(9.0) 3Ts Project – Highway Works

Stage 2 Eastern Road Bus Stop Locations

Re-located Pedestrian Crossing
(10.0) 3Ts Project – Employment Strategy

**DIRECTION**

**SOCIAL VALUE PLAN**

**DELIVERY**

- Equality, Diversity & Inclusion Plan
- Employment & Skills Plan
- Local Procurement Plan
- Education Plan
- Communication Plan

**ENABLER**

- **E&D TRAINING PLAN**
- **E&D DATA CAPTURED AT INDUCTION**
- **E&D POLICY SHARED WITH SUB-CONTRACTORS**
- **DIVERSITY CHAMPIONS**
- **FORUMS**
- **JOB CARVING**
- **LABOUR FORECAST**
- **ADVERTISE THROUGH LOCAL JOB BROKERAGES**
- **SUPPLY CHAIN CHARTER**
- **LINKS WITH EDUCATIONAL ESTABLISHMENTS**
- **ADVERTISE OPPORTUNITIES LOCALLY**
- **BUILD CAPACITY OF SME’s AND SOCIAL ENTERPRISES**
- **WORK EXPERIENCE**
- **CAREER TALKS**
- **SITE TOURS**
- **ENTERPRISE EVENTS**
- **MENTORS**
- **STAKEHOLDER MAPPING**
- **INTERNAL COMMS**
- **LIAISON**
- **PR PROTOCOL & EXTERNAL COMMS PLAN**

**PERFORMANCE**

**MEASURE, MONITOR, REPORT**
(11.0) 3Ts Project – Environmental Monitoring

• LOR Environmental Management Plan (EMP) based upon requirements of BS EN ISO 14001:2004 Environmental Management Systems**

• The EMP consists of key operational control documents including the Aspects and Impacts Register**, Site Waste Management Plan** and Environmental Emergency & Contingency Plan

• Environmental Incident Reporting & Complaints Register

(**documents will be revised in line with ISO 14001:2015 requirements)**
(11.0) 3Ts Project – Environmental Monitoring

• Records of Waste Carrier Licenses, Transfer & Consignment Notes
• Active monitoring of site generated noise, dust and vibration
• Monitoring of energy and water consumption against kpi’s
• Monthly HSE Action Plan
• Waste Data Records

Noise monitoring station
LOR’s liaison responsibilities:

• Communication with the Trust’s Head of Engagement & Communication re. neighbourhood and staff
• Attending Hospital Liaison Group Meetings
• Preparation and distribution of a local newsletter
• Briefings to neighbours on progress and issues
• Liaison with all stakeholders, as required, with regards to the works on site
• Dealing with the police - particularly with regard to traffic movements and permits
• Applications to the Local Authority for road closures, etc.
• Monitoring and updating licences, e.g. hoarding, crane oversailing, etc.
• Point of contact for the client, arranging site visits, etc.
• Preparing reports for the site meetings on neighbourhood issues
• Monitoring compliance with the Considerate Constructors Scheme