

BLOCK 8 Maternity

Stroke Unit

CHAMBERLEN WARD

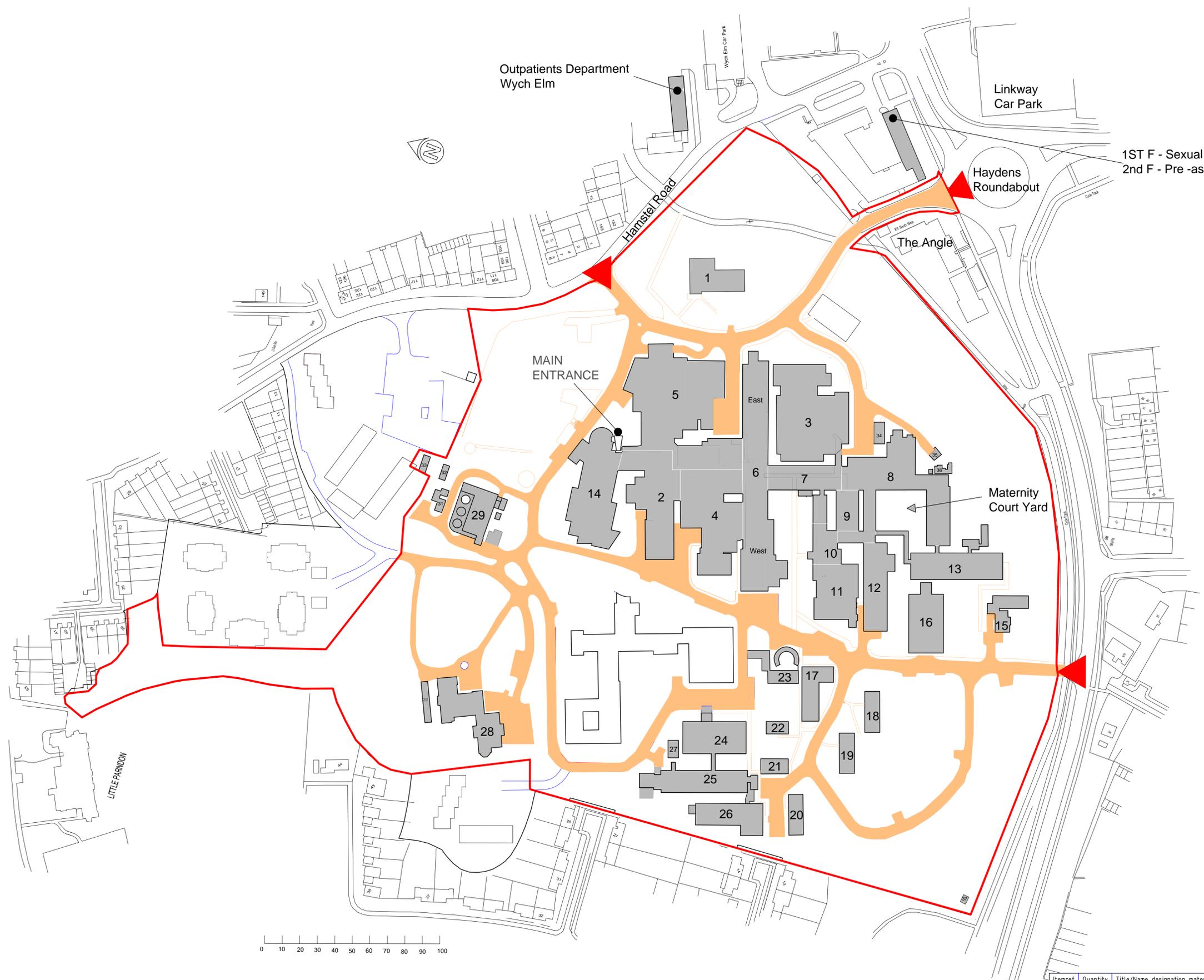
LABOUR WARD

SAMSON WARD

| RevNo | Revision note | Date | Signature | Checked |
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| Itemref | Quantity | Title/Name, designation, material, dimension etc | Article No./Reference |
|--------------------------|------------|--|-----------------------|
| Designed by Clive Austin | Checked by | Approved by - date | Filename |
| PAH | | Duct Survey Drawing | |
| Edition 0 | | Scale 1:100 | |
| Sheet 1/1 | | LGF | |

New 18 Bedded Ward Painting Programme



| BLOCK No | DEPARTMENT |
|----------|--|
| 1 | SOCIAL CLUB |
| 2 | CRAWLWAY FACILITIES / M OUTPATIENTS |
| 3 | ALEXANDRA DA |
| 4 | BASEMENT CSSD RADIOLOGY |
| 5 | KENT WING ED/EAU/FRACT THEATRES/STRC DOLPHIN WARD PLANT |
| 6 | WARDS (WEST) BASEMENT KITCHEN / RES PATH LAB / DI PENN WARD RAY WARD WINTER WARD ITU / HDU PLANT ROOMS LIFT MOTOR RO WARDS (EAST PHARMACY PRO MELVIN/FLEMING SAUNDERS WA LOCKE WARD LISTER WARD HARVEY WARD |
| 7 | CARDIOLOGY AN BASEMENT CHAPEL / ADMIN CARDIOLOGY AS THEATRES |
| 8 | MATERNITY CRAWLWAY CHAMBERLEN W LABOUR SUITE EPU |
| 9 | TRUST BOARD TRUST BOARD TRUST BOARD |
| 10 | WOMENS HEALT |
| 11 | NEONATAL |
| 12 | RENAL UNIT |
| 13 | BIRTH UNIT /A ELECTIVE CARE |
| 14 | TYE GREEN HAROLD /AMBU KINGSMOORE / PLANT ROOMS |
| 15 | NORWAY HOUSE |
| 16 | CELLULAR PATH LABORATORY - OFFICES-SEMINA PLANT ROOM |
| 17 | EYE UNIT CLINICS CLINICS |
| 18 | KALMAR HOUSE OFFICES- TRAIN TRAINING ROOM |
| 19 | GRANE IT IT |
| 20 | DRAMMEN HOU EBME CAPITAL AND E |
| 21 | ARENDAL HOU SOCIAL SERVICE RECRUITMENT |
| 22 | NARVIK HOUSE OCCUPATIONAL OCCUPATIONAL |
| 23 | OSLO HOUSE OFFICES PLANT ROOM TANK ROOM |
| 24 | WILLIAMS DAY G |
| 25 | GIBBERD-DIREC |
| 26 | BEVAN- ORAL |
| 27 | COMMUNITY NURS |
| 28 | PARNDON HALL SEMINAR ROOM TRAINING ROOM |
| 29 | BOILER HOUSE |

| Itemref | Quantity | Title/Name, designation, material, dimension etc | Article No./Reference |
|--------------------------|------------|--|------------------------------------|
| Designed by Clive Austin | Checked by | Approved by - date | Filename Date 00/00/00 Scale 1:100 |
| PAH | | | Edition 0 Sheet 1/1 |



Company Name:-

Project:- Option 1 - Three Theatres (Twin Maternity & OSU)

Construction Specification

| | | Design Area | Qty | Price |
|----|--|-------------|-----|-------|
| 1 | Back Ground | | | |
| 2 | The princess Alexandra hospital NHS Trust wishes to carryout a competition to design & Build Three Theatres (Twin Maternity Theatres & OSU Theatre) As per proposed floorplan drawings. Tenders shall refer to proposed drawings, existing drawings and C Sheets which include ADB Data sheets when pricing. This document contains Construction Specification and M&E Specifications. Modular building companies and traditional building companies with previous experience of building Operating Theatres are welcome to bid for this tender. Companies tendering are also required to submit a programme of works and a CV. Please be advised decision on who wins this tender will be based on price, programme of works and previous experience. | | | |
| 3 | Scope of Works | | | |
| 4 | Preliminaries | | | |
| 5 | Site set up | | | |
| 6 | Ground Works | | | |
| 7 | Foundation | | | |
| 8 | Allow for a series of augred foundation pads of varying sizes to accept the imposed load of the building. | | | |
| 9 | Allowance has for an interlocking perimeter ground beam. | | | |
| 10 | Allowance for piled foundations if required. | | | |
| 11 | Allow for removal of all soil from site. | | | |
| 12 | Drainage | | | |
| 13 | Allow for completing all necessary drainage works to allow the new theatre extension to take place. Local connections will be made into the existing foul and surface water drainage for the theatre. | | | |
| 14 | Landscaping | | | |
| 15 | Allow for local landscaping to the perimeter of the building including the construction of a brickwork plinth supported from the perimeter ground beam. | | | |
| 16 | Plant Base | | | |
| 17 | Allow for a plant base to be positioned adjacent to the facility to house the condensing units as described within the Mechanical and Electrical Specification. | | | |
| 18 | Theatre Building Shell | | | |
| 19 | Provide Costing as per proposed layout, allowance shall also include roof-top plant room or house all required facilities. | | | |
| 20 | Structure - shall be designed and constructed in accordance to the following standards and technical references | | | |
| 21 | <ul style="list-style-type: none"> • BS5268 Part 2 'Structural Use of Timber' • BS449 Part 2 'Structural Use of Steelwork in Buildings' • CP3 Chap. V Part 2 'Wind Loads' • BS6399 Part 1 'Design Loads for Building' • BS648 'Dead Loads' • Timber Designers Manual 'Ozelton & Baird' • Generally to Current Building Regulations | | | |

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| 22 | Floor Construction | | | |
| 23 | Allow for supplying and installing A HTM 08-01 compliant flooring for the theatre suite offering a response factor to vibration of less than 1. | | | |
| 24 | Allow for 300mm reinforced concrete slab on ground floor. | | | |
| 25 | Allow for 300mm reinforced concrete slab on ground floor. | | | |
| 26 | At ground and first floor, allow for installing a 10mm screed above the concrete slab to provide a smooth, level finish ready to accept vinyl. | | | |
| 28 | Design Wind Speed | | | |
| 29 | 24m/s. | | | |
| 30 | Fire Rating | | | |
| 31 | External face of walls - Class 1 surface spread of flame. | | | |
| 32 | Internal face of walls and ceiling - Class 0 surface spread of flame. | | | |
| 33 | 60min Insulation, Integrity and Stability protection – from inside to out and outside to in as required by Building Control. | | | |
| 34 | Insulation Values | | | |
| 35 | Walls 'U' = 0.28w/m ² K | | | |
| 36 | Roof 'U' = 0.18w/m ² K | | | |
| 37 | Floor 'U' = 0.22w/m ² K | | | |
| 38 | External Walls | | | |
| 39 | Ceiling height: 3300mm Structural. | | | |
| 40 | Timber Framing: Ex 125 x 35mm top and bottom rails with ex 125 x 35mm vertical studding at 400mm centres, with horizontal cross mid rails. | | | |
| 41 | Cladding: 9mm WBP Exterior grade plywood glued and nailed to studding timber to form a stressed skin construction. | | | |
| 42 | Vapour Barrier: Single layer of 'Ecobrite' foil insulation membrane is fitted directly onto internal side of walls studs. | | | |
| 43 | Packer battens: 19mm timber packing battens are fitted on top of ecobrite insulation to create air cap behind internal lining. | | | |
| 44 | Internal Lining: 15mm 1 hour Taper-edge impact resistant "Megadeco" plasterboard fixed onto timber studding. | | | |
| 45 | External Finishes | | | |
| 46 | External Cladding: Plastisol steel from a standard range | | | |
| 47 | Gutters/pipes: uPVC | | | |
| 48 | Allow for supply and installation of steadmans insulated roofs 100mm as per proposed drawings | | | |
| 49 | External Doors | | | |
| 50 | Doors: Standard Steel External Door | | | |
| 51 | External Windows | | | |
| 52 | Windows will be double glazed with argon filled hermetically sealed units to comply with thermal performance requirements of the Building Regulations minimum 1.8 w/m ² K U-value. | | | |
| 53 | Windows to uPVC. | | | |
| 54 | Allow for supply and install of high level obscure windows in all three operating theatres, recovery and staff W/C | | | |
| 54 | Staircase | | | |
| 55 | A steel external staircase shall be supplied and installed access the roof top plant room as per proposed drawings. | | | |
| 56 | Handrails will be 40mm warm-to-touch PVC finish | | | |
| | staircase shall have landing breaks as per proposed drawings | | | |

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| 57 | Internal Finishes | | | |
| 58 | Partitions/Linings | | | |
| 59 | allow for constructing partitions from 100mm studs partition walls as per proposed floor plan. Partition walls shall be a single layer of either 12.5mm or 15mm tapered edge plasterboard either sided with 30min fire resistance requirements. | | | |
| 60 | Partition walls shall meet fire resistance, be sound insulated, impact resistant ant and stability requirements as per Building Regulations requirements (Rw 40dB) and HTM 08-01 Requirements. | | | |
| 61 | All partitions shall be additionally supplied with an internal layer of 12.5mm plywood to allow full future flexibility when it comes to the fixing of equipment. | | | |
| 62 | Allow for using moisture resistant boards in areas with high humidity. | | | |
| 63 | Ceilings | | | |
| 64 | Allow for ceiling suspended grid system to all areas | | | |
| 65 | Allow for supply and installation of an Armstrong Orcal metal pan tile system within all sterile areas. This clip in tiling system shall be supported on a galvanised spring tee bar and within HTM60. | | | |
| 66 | Non-sterile areas shall have an Armstrong Bio-guard system. | | | |
| 67 | Ceiling heights shall be 2.7m in the Operating Theatres, 2.7m in all individual rooms and 2.4m within corridors. | | | |
| 68 | Wall and Ceiling Finishes | | | |
| 69 | All standard areas shall be finished with Dulux Trade Diamond Matt Emulsion paint. The clinical areas including the theatre, anaesthetic and preparation rooms shall be finished with Sterisheen. | | | |
| 70 | Allow for Altro White rock splash backs to be provided to wash hand basins and sinks where IPS panels are not specified. | | | |
| 71 | All Wall and Ceiling Finished should be within HBN 26 and HBN 56 | | | |
| 72 | Floor Finishes | | | |
| 73 | The floor finishes shall be 2.5mm thick, fully welded and covered vinyl. All wet areas such as scrubs, dirty utilities shall have safety flooring laid. | | | |
| 74 | Allow for applying Ardex smoothing underlayment compound to all areas prior to installation of Vinyl flooring. | | | |
| 75 | All areas where the new flooring meets the existing hospital streets shall be skimmed with a smoothing underlayment compound to give a smooth, even surface. | | | |
| 76 | All vinyl shall be covered up walls 150mm using CF38 capped with Gradus 2mm diminishing strip. | | | |
| 77 | All joints and internal/external mitres shall be hot welded. | | | |
| 78 | For the plant room, allow for proprietary liquid waterproofing membrane to the slab and up face of bund as tanking. | | | |
| 79 | Contractor's shall use The Trust's preferred flooring manufacture Polyfloor. | | | |
| 80 | All Floor finishes shall be in accordance with the HTM 61. | | | |
| 81 | Fire Stopping | | | |
| 82 | Allow for all fire stopping required for where mechanical and electrical services travel through compartments. | | | |
| | All apertures shall to be suitably sealed with the appropriate fire stopping material to maintain the fire rating. | | | |

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| 83 | Doors and Ironmongery | | | |
| 84 | Allow for all door sets as per proposed drawings | | | |
| 85 | Allow for 44mm thick laminated commercial grade, solid core, and flush doors to be hung on steel butt hinges with brass washers in hardwood frames. Doors shall be supplied to the anticipated correct fire standards (30min) with appropriate seals and rebates & supplied as door sets. | | | |
| 86 | All doors/frames shall be provided as door sets complete with fire test certification. Door manufacturer's full details/schedules will be provided prior to fabrication. | | | |
| 87 | GWPP vision panels, to meet the required fire rating, to be included to doors where indicated on the floor plans. | | | |
| 88 | All doors shall be supplied and installed in accordance to HTM58. | | | |
| 89 | Fitted Furniture | | | |
| 90 | All furniture, units and worktops shall confirm to HTM63. All cupboard doors and drawer fronts would be manufactured from 18mm thick MDF faced with decorative laminate. All edges will be finished with 2mm contrasting PVC. | | | |
| 91 | Allow for quantities of furniture from the standard requirements of an operating theatre. | | | |
| 92 | have allowed for the fitting of all Group 2 equipment | | | |
| 93 | Wall Protection | | | |
| 94 | Allow for "Intrad" Protection or similar system to be installed to entrances, transfer areas and lobbies as follows: <ul style="list-style-type: none"> • Corner protection mouldings to all external corners. • Door edge protection to all internal doors. • Door face protection to internal doors to corridors and 'high traffic' areas. | | | |
| 95 | Sanitary ware | | | |
| 96 | allow for the following sanitary ware: 3 no. 3 position scrub troughs 3 no. slop hopper units 6 no. clinical wash hand basins | | | |
| 97 | All sanitary equipment shall be manufactured meeting all the standards within HTM 64 and HBN 26. | | | |
| 98 | Sanitary appliances shall be supplied from Armitage Shanks or approved and situated on a hygienic, easily maintained, removable panelling system which will enclose all water and waste pipe work, mixing valves, isolation valves and waste traps. The IPS systems shall be fully compliant with HTM 68. | | | |
| 99 | All sanitary ware equipment with ball valves, TMV's and fixed connections, shall be situated within the partitions behind removable laminate panels to aid both installation and maintenance. | | | |
| 100 | Miscellaneous Building Items | | | |
| 101 | Allow for all other Group 1 items shown within the RDS such as clocks etc. | | | |
| | Allow for all NHS standard way-finding and statutory signage. | | | |
| | Mechanical & Electrical Specification | | | |
| | Infrastructure | | | |

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| Drainage | | | |
| The principles for the internal drainage installation shall incorporate strategically placed drain stacks to suit the new layouts. These shall be connected to the below slab drainage. | | | |
| Heating | | | |
| Allow for taking an adequately sized LPHW supply from within 25m of the link way to the new building. This shall serve the frost coil on the AHU's and any re-heat batteries required by design. | | | |
| Hot & Cold Water | | | |
| Hot and cold water supplies to the site are to be extended from the distribution system of the adjacent building. As with the LPHW, Allow for connecting to the existing system within 25m of the link way. | | | |
| Medical Gases | | | |
| Allow for installation of medical gases, contractor shall use the trust's preferred contractor DNL Medical. | | | |
| Connection into the site wide system is available within 25m of the link way to the existing building. | | | |
| Electrical | | | |
| The electrical supply to the new maternity theatres building to be derived from the existing hospital distribution system. | | | |
| Allow for all new electrical installations and wiring shall be to BS 7671 and IET Wiring regulation BS 7671. | | | |
| All Electrical supply/services Distribution from existing infustructure shall be in accordance to HTM 06-01. | | | |
| Allow for supply and install of new electrical cable connection from sub-station to new theatre control panel within new plant room (25m) | | | |
| Mechanical Ventilation Services | | | |
| Ventilation | | | |
| The ventilation system and plant serving the theatres shall follow the guidance given in HTM 03 – 01. On this basis, an HTM compliant Air Handling Unit is required for each theatre. These are to be positioned within the roof top plant room. | | | |
| An ultra-clean ventilation UCV system shall be installed for operating Theatre 3. | | | |
| Extract fans shall be matched to supply units with a common clean and "dirty extract" system in compliance with HTM 03. | | | |
| The ventilation design shall recognise the need for energy efficiency and incorporate | | | |
| The ventilation plant shall be on a fixed time on/off schedule to suit the planned operation of the facility, with over-ride at the dictates of the in room PIR sensor. | | | |
| Ductwork/Air distribution | | | |
| Ductwork shall be galvanised sheet metal to HVAC document DW144, with all ductwork serving theatres to be installed and maintained to an advanced level of ductwork protection during fabrication and installation, complying with the standards of HVAC DW/TMZ Guide to Good Practice – Internal Cleanliness of New Ductwork Installation. | | | |
| Ductwork branches shall be coned or booted to produce gradual change in cross section/direction. | | | |
| Ductwork transitions shall ideally retain one pair of parallel sides and be as smooth and gradual as possible. | | | |
| Ductwork ratios shall not exceed 3:1 in compliance with HTM 03-01. | | | |

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| The velocities in ventilation ductwork systems shall not exceed the following maximum values: Plant room and risers 7m/s Main branches 4.5 m/s Diffuser connections 1.5 – 2.5 m/s | | | |
| Attenuation | | | |
| Acoustic attenuators shall be manufactured and supplied as part of either the Air Handling unit or the ductwork. Attenuators shall be incorporated within the AHU to prevent excessive noise transmission to occupied areas of the building to satisfy the requirements set out in HTM 03-01. | | | |
| Air Handling Plant | | | |
| The air-handling units are shall be located internally at plant room level. | | | |
| Ductwork shall; distribute internally from the plant room whereupon they shall feed to the facility below. | | | |
| Partitions shall be fitted as appropriate with pressure relief/stabiliser dampers. Air shall be admitted to the theatre through the use of ceiling supply diffusers. | | | |
| The AHUs shall be supplied with a combined clean extract AHU. A run-around coil provides a contamination free heat recovery system between the extract and the supply units. | | | |
| The air handling units are constructed to be water tight and leak resistant to the HEVAC Guide to Leakage Testing of AHU's 1986. | | | |
| contractor shall enclosure panels shall be a minimum of 25mm thick and shall comprise 1.0mm inner skins manufactured from pre-galvanised sheet steel, 25mm mineral wool insulation having a density of 60kg/m ³ and a 1.0mm outer skin manufactured from plastisol coated sheet steel. | | | |
| Access doors shall be manufactured to the same standard as enclosure panels and shall be provided on all sections requiring regular maintenance. Access doors shall be hinged and shall close onto neoprene door tape having adequate regenerative properties. Doors shall be 600mm wide where practically possible. Hinges shall be heavy duty injection moulded ABS black nylon. | | | |
| The air handling unit shall be mounted on a 150mm high base frame. | | | |
| Supply and extract fans shall be of the plug fan type complete with the motor within the air stream. Spare motors shall be provided as per HTM. | | | |
| Disposable panel filters to G4 and rigid filters to F7 have been included. | | | |
| G4 filters shall be arranged for side withdrawal. F7 rigid filters are arranged for front withdrawal. | | | |
| Frost coils shall be manufactured from base copper tube. | | | |
| Heating/Cooling coil shall be manufactured from copper tube with poly coated aluminium fins, with galvanised steel case surround. | | | |
| Removable drain pans with side drain point shall be manufactured from stainless steel. | | | |
| Aluminium opposed blade multi leaf dampers with tip seals shall be included and shall have an extended spindle suitable for motorisation. | | | |
| Fire Control | | | |

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| Action Air Mode 6 fire dampers shall be installed where ductwork penetrates all 60 minute fire rated partitions as required by the latest HTM. A dedicated panel shall be provided in the plant room detailing the condition of each smoke damper. No allowance has been made for smoke dampers within 30 minute fire rated partitions. | | | |
| The operation of ventilation plants shall comply with the recommendations set out in HTM05 and agreed at design stage. | | | |
| Ductwork Insulation | | | |
| New ductwork shall be insulated with 30mm thick H&V foil faced phenolic foam slabs/sections, suitably secured and all joints taped. ID triangles shall be installed at regular intervals. | | | |
| External ductwork shall be insulated using 50mm thick foil faced rigid foam slabs, suitably secured with all joints taped. Further weatherproofing is added by a layer of stucco embossed silver Venture clad, overlapped and secured to itself. ID triangles shall be installed at regular intervals. | | | |
| Commissioning | | | |
| Contractor shall be responsible for the commissioning management. This would include programming of the activities and the production of documentation to record all testing and commissioning including where appropriate the witnessing of all tests. | | | |
| All room pressures and air flow rates are shall be measured, independently checked and certified with all certification being made available to the Trust's Estates Department as part of our operating and maintenance manual. | | | |
| Allow for the microbiological validation of the ductwork | | | |
| Heating and Cooling | | | |
| Heating shall be derived from the existing site system and a constant temperature supply with flow and return temperatures of 80-60°C shall be required for connection within the existing boiler room. This supply shall be extended by Contractor to feed radiant panels within non-clinical areas and the frost coil / heater batteries on the AHU. | | | |
| Room heat emitters shall be ceiling mounted radiant panels as specified with additional heating via air systems to those areas provided with mechanical ventilation. | | | |
| All heating pipework shall be installed in copper pipework. Contractor should utilise "Crimped" fittings. | | | |
| Contractor shall allow for providing dedicated cooling. Cooling shall be achieved by the provision of 3 no. DX (or heat pump) condensing units serving each air handling unit. The DX units shall be sized at 50% capacity each, allowing the system to operate regardless of maintenance, repair or defrost. | | | |
| The primary heating coils of each AHU shall also be served by the heat pump section of the DX units. This shall be both cost effective on capital and lifecycle costs, whilst not being detrimental to the control / operation of the facility. | | | |
| External condensers shall be selected against a design value of 35°C 50%RH with of 28°C Dry Bulb/ 20°C Wet Bulb proposed as the external summer design condition onto the cooling coils. | | | |
| Medical Gases | | | |
| Allow for to supply and install Oxygen, Nitrous Oxide, Med Air 4bar, Surgical Air 7 bar, Vacuum and AGSS to the two fixed medical gas Pendants per theatre. | | | |
| At the entrance to Theatre Allow for provide a 5 gas Zone Wall unit complete with Area Alarm Panel. | | | |
| Allow for supply of an Alarm interface Unit to transmit the signals to your Touch Screen Surgeons Panel. | | | |

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| The pipework shall be distributed generally at high level in the ceiling void before entering a Departmental / Building AVSUM. From this AVSUM the pipework shall continue in the ceiling void before distributing to the sub-departments AVSUM's. | | | |
| The new AGSS plant shall be situated within the plant room. | | | |
| Mechanical Wet Services | | | |
| Mains Cold Water Services | | | |
| Contractor shall allow for connection into existing cold water tank to support new theatres. Contractor's shall note local MCW feed of sufficient size and pressure is available within 5m of the boundary of the proposed area | | | |
| Hot Water Domestic Services | | | |
| New connections shall need to be made into the existing mains within the plant room. Any shut downs shall be carefully planned and undertaken out of hours and with full permission of the Trust's Lead Project Manager for this project. | | | |
| The design of the water distribution systems shall take account of HTM04-01: The control of Legionella, hygiene "safe" hot water, cold water and drinking water systems. | | | |
| Flexible water supply hoses shall not be provided on pipework | | | |
| Contractor shall ensure that hot water temperature is reduced at the point of use to provide safe water temperatures in accordance with the Department of Health guide. | | | |
| All wash hand basins shall be provided with pre-set thermostatic mixing valves. | | | |
| Allow for temperature sensors linked to the BMS that monitor and record temperatures of the cold water entering the facility. | | | |
| The design and installation of contractor's systems shall take account of HTM 04-01, HSE ACOP L8 and shall comply with the latest water regulations | | | |
| Electrical Services | | | |
| Mains and Sub-mains Distribution | | | |
| Allow for sub-mains distribution cables to be taken from the existing switchgear within the hospital. | | | |
| From the existing switchgear, Allow for installing a new essential distribution board for the theatre. A mechanical plant distribution board has also needs to be included at plant level. | | | |
| The location of these distribution boards shall have to be agreed once a contractor has been appointed | | | |
| General Lighting | | | |
| The general lighting shall be supplied installed to current standards, utilising a recognised manufacturer. Energy efficient LED lighting shall be used throughout. | | | |
| Generally all lighting shall be controlled via wall mounted dimmable light switches, automatic detectors shall be provided for all store rooms. | | | |
| IP54 rated luminaries shall be provided in theatre and scrub areas with IP54 rated switches. All other fittings shall be IP40 rated elsewhere. | | | |
| All lighting shall be served by single core LSF cables enclose in trunking/conduit. | | | |

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| The lighting design is generally as follows: <ul style="list-style-type: none"> • A maintenance Factor of 0.8 has been used for all areas. • Corridors and Non Sterile Areas – To 200 lux. • Dirty Utility – To 200 lux at floor level. | | | |
| Emergency Lighting | | | |
| Allow for approximately 25% of the luminaires in the suite to be complete with three hour back up. | | | |
| All emergency lighting shall meet the requirements of BS EN 5266 and CIBSE Lighting Guide for Hospitals and Healthcare Buildings. | | | |
| Allow for fully lit 8W IP20 Blade emergency exit (SLOTNMF8) signage within the corridors. These shall be fitted with three hour emergency batteries. | | | |
| External Lighting | | | |
| Allow for an IP65 rated maintained emergency bulkhead situated above the fire escape of the building. | | | |
| Allow for lighting underneath the first floor overhang section. | | | |
| General Power | | | |
| Allow for providing all appropriate power supplies, including socket outlets and spur connection units, where required for an operating theatre. | | | |
| All of the general power shall be served by single core LSF cables enclosed in appropriate trunking/conduit/basket. | | | |
| Isolated Power Supply and Uninterruptible Power Supply | | | |
| Allow for 2no. 8kVA, 12 Way IPS systems to serve the theatres. This shall be supplied by 2 no. 10kVA, UPS batteries c/w 60 minutes autonomy. | | | |
| The IPS shall be interleaved between theatres and the UPS shall be wired in parallel to offer an N+1 solution. | | | |
| Operating Lamps | | | |
| Allow for an operating lamp with a 160,000 lux main lamp and 130,000 lux satellite complete with stem and handles for disposable covers and 3 hour battery backup unit. The units shall be complete with HD camera preparation. 360° rotation is achievable with this lamp and interface to the theatre control panel. | | | |
| Allow for all secondary steelwork required for the provision of this lamp. | | | |
| Surgeons Panel | | | |

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| <p>Each theatre shall be provided with a 17"eTCP Membrane Touch Screen Theatre Control panel which shall incorporate the following minimum requirements:</p> <p>Digital time of day clock Digital elapsed time clock Temperature indicator integrated +- Humidity indicator integrated +- Ventilation normal indicator Ventilation set-back indicator Ventilation fault indicator Battery in use indicator / gen running Mains socket outlet IPS/UPS General lighting controls Operating lamp controls Temperature controller Medical gas alarm panel SAX-6 or similar Time clock over-ride AGS on / off control plus indications</p> | | | |
| Control System | | | |
| <p>Allow for the existing BMS System to be expanded to control, monitor and protect the connected mechanical services equipment. The existing Central (BMS) Workstation Computer shall be utilised to provide the users with full graphical representation and remote access to the expansion area. In order to facilitate the expansion of the existing BMS System to cover the facility. All individual temperature set points, timed control schedules and sequencing of plant shall be totally adjustable and flexible from the BMS workstation, ensuring that only the required occupied zones are heated and ventilated to the design standards required.</p> | | | |
| <p>Allow for a BMS controls installation by the specified controls houses named within the specification document</p> | | | |
| Fire Detection and Alarm System | | | |
| <p>Allow for an extension to the existing building's analogue addressable alarm system in line with building regulation.</p> | | | |
| <p>The proposed system shall include analogue addressable detectors, control equipment, MCP and sounders.</p> | | | |
| <p>The system is classified as a category L1 system incorporating automatic fire detectors throughout all areas of the building other than a small number of specified exceptions.</p> | | | |
| <p>Contractor shall be responsible for the programming of the fire alarm system and shall provide all addresses and zone information to allow us to produce as fitted documentation and to label all devices.</p> | | | |
| Nurse Call System | | | |
| <p>Allow supply and install of New Nurse call system, nurse call system shall be supplied and installed by Static Systems Ltd. Allow</p> | | | |
| Data/Voice Installation | | | |
| <p>Contractor shall allow for the new Data and voice installations.</p> | | | |
| Earthling/Bonding | | | |

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| Earthing and bonding shall be in accordance with BS7671 – Requirements for Electrical Installations and in accordance with BS7430:1991 Earthing and to the relevant HTM requirements. | | | |
| Installations shall be compliant with all relevant sections of the NHS Model Engineering Specification. | | | |
| Associated Building Works | | | |
| Temporary Platform Lift & Scaffolding | | | |
| Contractors shall allow for installation of a temporary platform lift and erecting scaffolding as part of enabling works; To be used for transportation of materials and access point onto main site. | | | |
| Platform Lift & Scaffolding must conform with BS EN 12811, NASC & BS EN 1570 requirements. "Refer to Floor Plan 3 - PLSF1" for location of temporary platform lift and scaffolding. | | | |
| Demolition & Reconstruction of Corridor | | | |
| Contractors shall Allow for demolition and reconstruction of corridor B. Corridor B is currently steel framed glass corridor; Allow for demolition of glass corridor and constructing a brick wall corridor as per proposed floor plan drawings. "refer to Floor Plan 3 "Corridor B". | | | |
| Allow for using steelwork as35 roofing. | | | |
| Allow for installation of 6No of 1200X600 UPVC Windows on Corridor B | | | |
| Allow for installing Polyfloor vinyl flooring (full flooring spec to be confirmed). | | | |
| Allow for decorations(Colours etc. to be confirmed) | | | |
| New corridor shall meet Part M of Building Regulations 2010 & conform with current BSI code of practice (8300:2009/10). | | | |
| Constriction of Car parking Spaces | | | |
| <i>Earthworks</i> - site must be cleared, Rotovation, Top soil, cut and Fillm surface water, banks and Top soil replacemnet in accordance to BS 5837:2012. | | | |
| <i>Sub-base</i> foundation shall be constricted in accordance to BS 5837:2012. | | | |
| <i>Base Construction</i> - base shall be contracted in accordance to BS EN 13108 and PD 6691:2010 G. | | | |
| <i>Retaining Walls</i> - Contractor shall ensure that adequate retaining walls and/or support to excavated faces are provided, together with relevant drainage. | | | |
| <i>Line Making</i> - Allow for the marking of parking bays | | | |
| <i>Signage</i> - All relevant car parking signs should be provided | | | |
| Floor plan 3, CP1 shows proposed car parking space | | | |
| Maternity Corridor | | | |
| Allow for erecting a new wall splitting existing maternity office(EMT) and creating new corridor access (L1) to Proposed maternity theatres. Floor plan 3 shows L1 and EMT | | | |
| Scope of Works Cost | | | 0 |
| 10% Contingency | | | 0 |
| Total | | | 0 |
| Add VAT @ 20% | | | 0 |
| Grand Total | | | 0.00 |