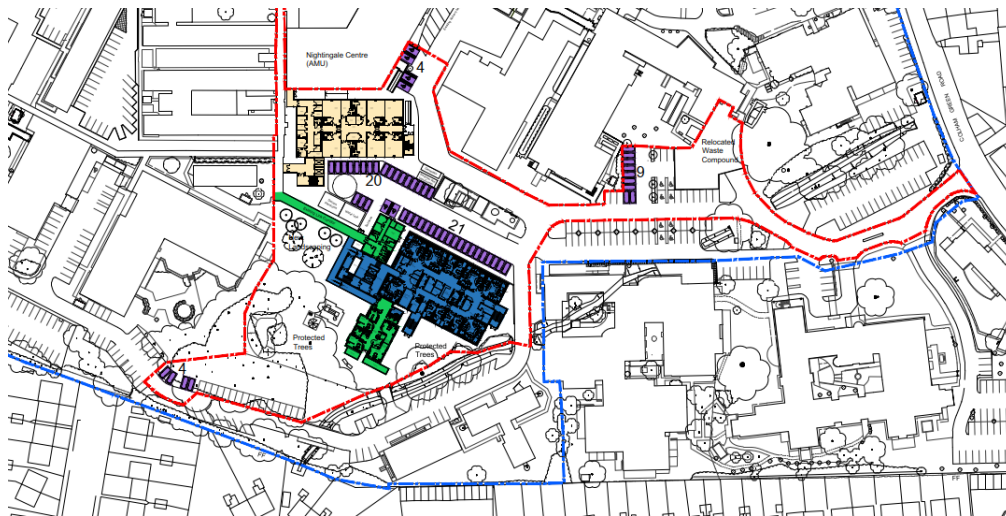


# western

building systems

**CONSTRUCTION MANAGEMENT  
AND ENVIRONMENTAL PLAN  
FOR  
HILLINGDON HOSPITAL MODULAR SOUTH**



**CONTENTS**

- 1. Introduction and description of project**
  - 2. Project Team**
  - 3. Roles and Responsibilities**
  - 4. Environmental Impacts**
  - 5. Environmental Targets**
  - 6. Site Working Hours**
  - 7. Access and Egress**
  - 8. Parking**
  - 9. Site Compound**
  - 10. Materials Delivery and Storage**
  - 11. Traffic Management**
  - 12. Highway Cleanliness**
  - 13. Tree Protection**
  - 14. Storage of Fuels and Hazardous Substances**
  - 15. Waste Management**
  - 16. Dust, Noise and Vibration**
  - 17. Communication**
  - 18. Monitoring**
-

## 1. Introduction and description of project

The works comprise of:

The Design, manufacture, installation, and commission of a multi storey modular ward block (3 story). The new multi-storey ward, known as Modular Ward South, will be located within the area of the previously demolished Building 4 at the hospital.

The address of the site is: Hillingdon Hospital, Pied Heath Road, Uxbridge, Middlesex UB8 3XX

The project is due to commence in late 2020 with a duration of 45 weeks.

## 2. Project Team

| <div>  <b>WBS JOB NO:3278-HILLINGDON HOSPITAL TRUST</b> </div> |                    |                   |                                           |                                                                                            |                        |                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------|-------------------------------------------|--------------------------------------------------------------------------------------------|------------------------|-------------------|
| Company Name                                                                                                                                    | Contact Name       | Discipline        | Role                                      | Email Address                                                                              | Head Office Contact No | Mobile Contact No |
| <b>HEAD OFFICE MANAGEMENT TEAM</b>                                                                                                              |                    |                   |                                           |                                                                                            |                        |                   |
| Western Building Systems Ltd                                                                                                                    | Shane Taseart      | Main Contractor   | Contracts Director                        | <a href="mailto:shane.taseart@westernbuild.com">shane.taseart@westernbuild.com</a>         | 028 87740740           | 07876798644       |
| Western Building Systems Ltd                                                                                                                    | Stuart Hearty      | Main Contractor   | Commercial Manager                        | <a href="mailto:stuart.hearty@westernbuild.com">stuart.hearty@westernbuild.com</a>         | 028 87740740           | 07798686794       |
| Western Building Systems Ltd                                                                                                                    | Eamonn Boyle       | Main Contractor   | Project Manager                           | <a href="mailto:eamonn.boyle@westernbuild.com">eamonn.boyle@westernbuild.com</a>           | 028 87740740           | 07821562575       |
| Western Building Systems Ltd                                                                                                                    | Patrick McKernan   | Main Contractor   | Quantity Surveyor                         | <a href="mailto:patrick.mckernan@westernbuild.com">patrick.mckernan@westernbuild.com</a>   | 028 87740740           |                   |
| Western Building Systems Ltd                                                                                                                    | Nigel Donaldson    | Main Contractor   | Production Manager                        | <a href="mailto:nigel.donaldson@westernbuild.com">nigel.donaldson@westernbuild.com</a>     | 028 87740740           |                   |
| Western Building Systems Ltd                                                                                                                    | Diarmuid Robinson  | Main Contractor   | Document Controller / Administrator       | <a href="mailto:diarmuid.robinson@westernbuild.com">diarmuid.robinson@westernbuild.com</a> | 028 87740740           |                   |
| <b>DESIGN TEAM &amp; SPECIALISTS</b>                                                                                                            |                    |                   |                                           |                                                                                            |                        |                   |
| Bailey Partnership                                                                                                                              | Giles Blythe       | Architectural     | Partner Architect                         | <a href="mailto:g.blythe@bailey.co.uk">g.blythe@bailey.co.uk</a>                           | 01752229259            | 07890901039       |
| Bailey Partnership                                                                                                                              | Dave Vickerstaff   | Architectural     | Project Architect                         | <a href="mailto:d.vickerstaff@bailey.co.uk">d.vickerstaff@bailey.co.uk</a>                 | 01752229259            | 07870240085       |
| Bailey Partnership                                                                                                                              | Solomon Danganne   | Architectural     | Architectural Technologist                | <a href="mailto:s.danganne@bailey.co.uk">s.danganne@bailey.co.uk</a>                       | 01752229259            | 07800906308       |
| Bailey Partnership                                                                                                                              | Ben Venner         | Building Services | Director of Building Services Engineering | <a href="mailto:b.venner@bailey.co.uk">b.venner@bailey.co.uk</a>                           | 01792 885 835          | 07526172624       |
| Bailey Partnership                                                                                                                              | Chris Hitchcock    | Building Services | Senior Electrical Engineer                | <a href="mailto:c.hitchcock@bailey.co.uk">c.hitchcock@bailey.co.uk</a>                     | 01792 885 835          |                   |
| Bailey Partnership                                                                                                                              | Lelia Tavendale    | Building Services | Senior Mechanical Engineer                | <a href="mailto:l.tavendale@bailey.co.uk">l.tavendale@bailey.co.uk</a>                     | 01792 885 835          | 07515457155       |
| Bailey Partnership                                                                                                                              | Darren Harris      | Building Services | Senior M&E Technician                     | <a href="mailto:d.harris@bailey.co.uk">d.harris@bailey.co.uk</a>                           | 01792 885 835          |                   |
| Alan Wood & Partners                                                                                                                            | Michael Blake      | Civil & Struct    | Director                                  | <a href="mailto:Michael.Blake@AlanWood.co.uk">Michael.Blake@AlanWood.co.uk</a>             | 01723 865 484          | 07876133831       |
| Alan Wood & Partners                                                                                                                            | Paul Sedman        | Civil & Struct    | Office Director                           | <a href="mailto:Paul.Sedman@AlanWood.co.uk">Paul.Sedman@AlanWood.co.uk</a>                 | 01723 865 484          | 07880201234       |
| Alan Wood & Partners                                                                                                                            | Jack Leary         | Civil & Struct    | C&S Engineer                              | <a href="mailto:j.leary@alanwood.co.uk">j.leary@alanwood.co.uk</a>                         | 01723 865 484          |                   |
| Alan Wood & Partners                                                                                                                            | Kevin Dowley       | Civil & Struct    | C&S Engineer                              | <a href="mailto:k.dowley@alanwood.co.uk">k.dowley@alanwood.co.uk</a>                       | 01723 865 484          |                   |
| BB7                                                                                                                                             | Ray Quinn          | Fire Engineering  | Fire Engineering Consultant               | <a href="mailto:rquinn@bbseven.com">rquinn@bbseven.com</a>                                 | 0203 603 5535          |                   |
| Assent Building Control                                                                                                                         | Ian Wright         | Building Control  | Building Regulations Service              | <a href="mailto:ianw@assentbc.co.uk">ianw@assentbc.co.uk</a>                               | 01206 561 938          | 07837 369 897     |
| <b>WBS SITE MANAGEMENT TEAM</b>                                                                                                                 |                    |                   |                                           |                                                                                            |                        |                   |
| Western Building Systems Ltd                                                                                                                    | KEVIN WYLLIE       | Main Contractor   | SITES MANAGER                             | <a href="mailto:Kevin.Wyllie@westernbuild.com">Kevin.Wyllie@westernbuild.com</a>           |                        | 07753726139       |
| Western Building Systems Ltd                                                                                                                    | SIMON-WHITE MILLER | Main Contractor   | BUILDING PROJECT MANAGER                  | <a href="mailto:Simon.WhiteMiller@westernbuild.com">Simon.WhiteMiller@westernbuild.com</a> |                        | 07463 812 894     |
| Western Building Systems Ltd                                                                                                                    | NICOLAE URSU       | Main Contractor   | MODULAR BUILDING FOREMAN                  | <a href="mailto:Nicolae.Ursu@westernbuild.com">Nicolae.Ursu@westernbuild.com</a>           |                        | 07776 426 024     |
| Western Building Systems Ltd                                                                                                                    | SEAN HEALEY        | Main Contractor   | CIVILS ENGINEER / CIVILS PM               | <a href="mailto:sean.healey@tsolutionshd.com">sean.healey@tsolutionshd.com</a>             |                        | 07481 739 169     |

## 3. Roles and Responsibilities

### Contracts Director

- Ensure that workplaces under their control are adequately resourced in terms of finance and personnel
- Ensure, so far as reasonably practicable that a suitable project specific Construction Phase Plan is prepared and implemented
- Make appointments where necessary, e.g. Site Health & Safety Officer, Waste Company's Project Environmental Co-ordinator, Fire Wardens etc.;

## CONSTRUCTION MANAGEMENT AND ENVIRONMENTAL MANAGEMENT PLAN

- Ensure, so far as reasonably practicable, employees and contractors are competent
- Recommend training needs to suit individual and workplace requirements
- Include SHE issues within site and project meetings
- Review project management systems at regular intervals to ensure continued suitability and effectiveness;
- Report to the client on SHE matters as required
- Assist in any regulatory, external or internal audit as required;

### SHE Manager

- Provide advice to the Directors to enable them to set appropriate performance objectives and improvements;
- Report on the levels of performance to enable Directors to review the effectiveness of current SHE arrangements;
- Advise managers on measures to ensure the effective operation of the project
- Give advice and guidance, to any person who may require it, to promote the understanding and operation of SHE best practice;
- Carry out regular inspections and audits, provide reports, and give guidance and advice to managers, contractors, Health and Safety Supervisors etc.
- Liaise with site management as required;
- To assist in any regulatory, external or internal audit as required;
- Report any SHE initiatives that they consider could lead to improvement.

### Site Management

- Be familiar with this Construction Phase Plan and co-operate in its implementation;
- Report any SHE initiatives that they consider could lead to improvement;
- Manage all SHE risks associated with their work activity / package in accordance with WBS procedures;
- Provide completed environmental reports to the WBS's SHE Manager
- Provide environmental toolbox talks to site staff
- Report all potential / actual SHE risks to WBS's SHE Manager as soon as possible;
- Assist in any regulatory, external or internal audit as required;
- Report any SHE initiatives that they consider could lead to improvement

## 4. Environmental Aspect

The environmental impacts associated with the project are summarised as follows:

| Aspect                                            | Possible Impact                                 |
|---------------------------------------------------|-------------------------------------------------|
| Works close to trees with a Tree Protection Order | Damage to the trees or their roots              |
| Works close to a stream                           | Contamination of the stream                     |
| Works within a live hospital                      | Disruption of hospital activities               |
| Delivery of large building components             | Disruption of traffic flow on surrounding roads |
| Dust, noise and vibration                         | Contamination and risk to high risk patients    |
|                                                   |                                                 |

## 5. Environmental Targets

The targets for the project are as follows:

- Zero environmental issues including spillages and contamination
- 97% recycling of waste materials
- Zero complaints from the hospital and members of the public
- Score of 38 or better on CCS Audit

## 6. Site Working Hours

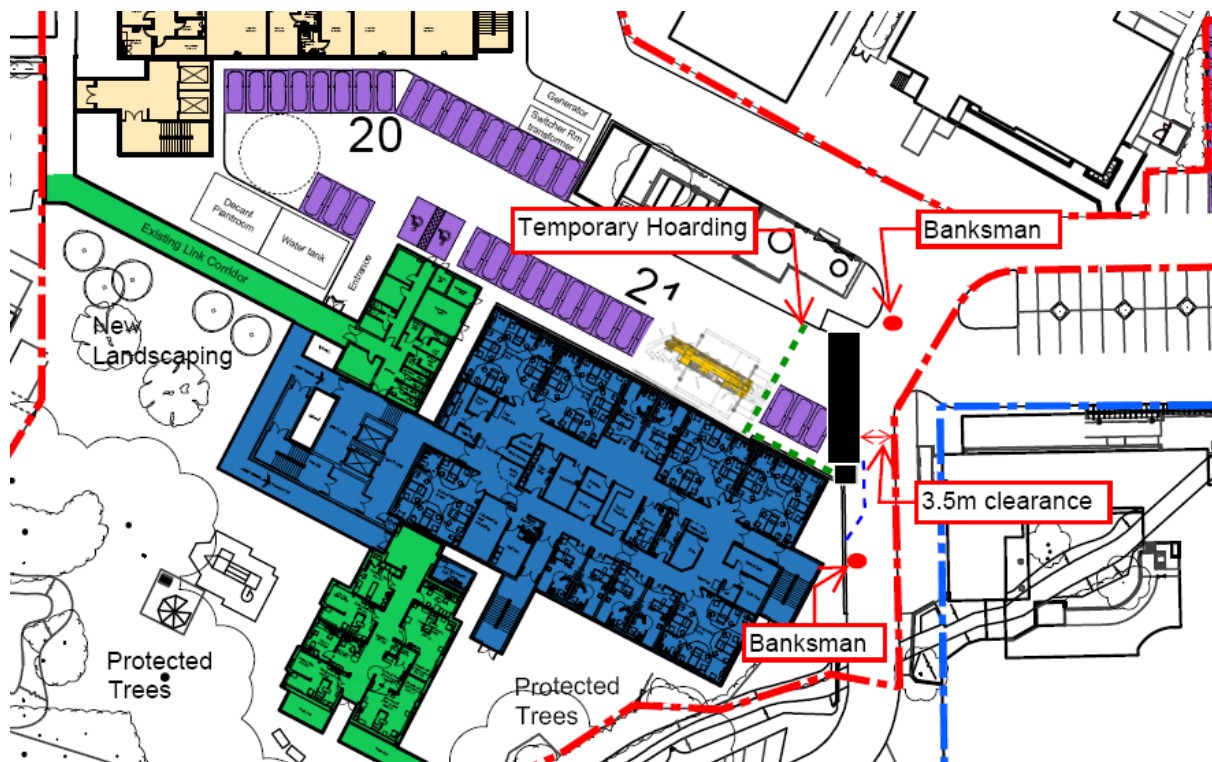
Working hours are restricted to 8.00am – 5.00pm Monday – Friday; 8.00 -1.00pm Saturday. No works permitted on Sundays or Bank Holidays.

Works outside normal hours will be required for the following:

### Modular Building Installation

In order to ensure the building can be made watertight as soon as possible, we will request an extension to working hours to include works on Saturday's and Sundays A total of 85 No. modular building sections will be installed over a series of 2 weeks from Monday 15<sup>th</sup> March 2021.

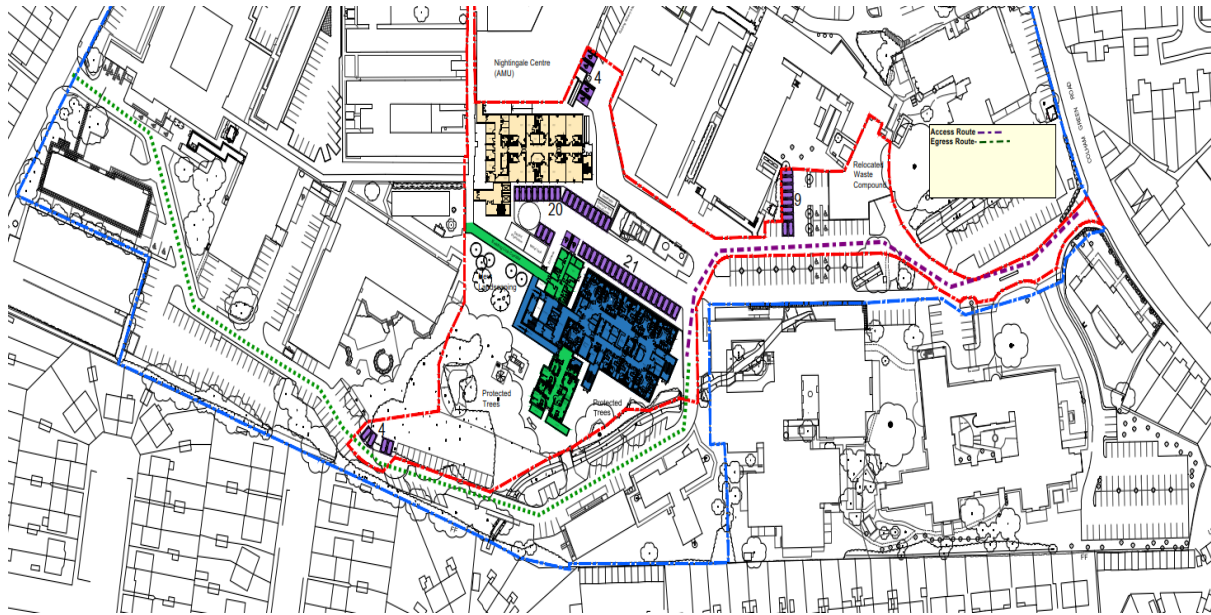
The modular building sections will be delivered on a series of 85 No. 40ft Articulating Lorries. The mobile **crane** will be located within our site compound. The Lorries will park at our site entrance. 3.5m clearance along the hospital access route will be maintained to allow a single lane of traffic to pass the lorry. 2 No. banksmen with Stop/Go signs will manage vehicles passing the lorry.



**Crane and Lorry Locations**

## CONSTRUCTION MANAGEMENT AND ENVIRONMENTAL MANAGEMENT PLAN

In order to reduce disruption due to reversing, Lorries will leave the hospital grounds via Entrance C off Royal Lane.



### Access and Egress Route

During the installation process, noise levels will be slightly increased by steel on steel contact when the modular sections are connected together. This can be partially mitigated by the use of pads to dampen the noise levels. Increased noise levels will not be constant but will last a few seconds each time a building section is landed.

#### 7. Access and Egress

Access to the site will be via Entrance D on Colham Green Road. The entrance is used by staff, patients and visitors attending the hospital. All HGV's will be accompanied from the hospital entrance on Colham Green Road to the site. Directional signage will be erected from the access route to the site compound.

#### 8. Parking

All parking will be within the site compound only. No parking is permitted on the access roads or hospital carparks. The compound can accommodate up to 15 vehicles. Where demand exceeds availability, we will source offsite parking.

#### 9. Site Compound

The site compound will be equipped with suitable welfare facilities to accommodate up to 70 persons. Welfare facilities will include, a canteen, and an office/meeting room. We will take possession of the existing plant buildings to use as offices, drying rooms and toilets.

Suitable signage will be erected at the entrance to the site which will include contact details for site management.

WBS will use an additional access into the site beside the hospital crèche to accommodate telescopic handlers and MEWP's. There is a 12te weight limit on the bridge across the stream leading to the site. Suitable signage identifying the weight limits will be erected on the bridge.

## **10. Materials Delivery and Storage**

### **Key Deliveries**

| <b>Item</b>                       | <b>Delivery Method</b> |
|-----------------------------------|------------------------|
| Welfare Units                     | HIAB                   |
| Structural Steel                  | 40ft lorry             |
| Precast Concrete Slabs and stairs | 40ft lorry             |
| Modular Building Sections         | 40ft lorry             |
| Scaffolding Components            | Flatbed Lorry          |
| Cladding                          | 40ft lorry             |
| Windows                           | Box Lorry              |
| Large Mechanical Components       | Various                |
|                                   |                        |

A delivery schedule will be produced for all the above deliveries. Deliveries will be scheduled outside peak hospital hours of 8.00am -9.00am and 4.00pm – 5.00pm.

Loading and unloading of plant and materials shall take place only within the boundaries of the construction site.

Loading and storage areas will be created on site allowing sufficient area for the requirements of the project. Lorry movements will be fully considered, ensuring safe reversing / manoeuvring, access and egress.

When materials are delivered to the work area they shall be positioned so as not to obstruct vehicular or pedestrian routes or reduce visibility of site traffic and pedestrians. Materials shall be positioned outside of the root protection area of existing trees.

## **11. Traffic Management**

All vehicles will be accompanied from hospital entrance D to the site. There is a speed limit of 10mph on the hospital access roads. No more than 1 HGV will be permitted within the hospital grounds simultaneously.

Freight Operators Recognition Scheme (FORS) Silver standard must be mandated by freight operators to support the development. The CLP must ensure Class VI mirror to used by construction and delivery vehicles entering site, vehicles with highest category of Direct Vision Standard must be used for this site, three stars or more equate to a 'good' rating. Construction or delivery vehicles must not be parked on any street within the close proximity of site. The vehicles must not wait or idle-run in the area in order to reduce congestion and vehicle emissions. The applicant must take reasonable endeavours to ensure construction deliveries are received outside peak hours.

Reasonable endeavours must be made to hold site meetings outside peak hours and the site must encourage visitors to use public transport and discourage car use.



## CONSTRUCTION MANAGEMENT AND ENVIRONMENTAL MANAGEMENT PLAN

### Hillingdon Hospital

### Appendix B BS 5837: 2012 Tree Schedule

| Tree/<br>Group<br>No. | Species     | Height<br>(m) | Stem<br>Diam. at<br>1.5m<br>(mm) | Branch Spread (m) |     |     |     | Canopy<br>Clearance<br>(m) | Age<br>Class | Observations                                                                                                                                | Management<br>Recommendations                                                                                                                                         | Estimated<br>Remaining<br>Contribution<br>(years) | BS 5837<br>Category<br>Grading | Protect-<br>ion<br>Distance<br>(m) | Root<br>Protect<br>Area<br>(m <sup>2</sup> ) |
|-----------------------|-------------|---------------|----------------------------------|-------------------|-----|-----|-----|----------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------|------------------------------------|----------------------------------------------|
|                       |             |               |                                  | N                 | S   | E   | W   |                            |              |                                                                                                                                             |                                                                                                                                                                       |                                                   |                                |                                    |                                              |
| T1                    | Oak         | 15            | est 900                          | 7                 | 7   | 7   | 7   | 4                          | Mature       | Dense bramble and ivy around base, prevents detailed basal inspection. Heavily reduced in the past, but reasonable vigour to fresh growth.  | Remove a section of ivy from lowest metre of trunk to enable more detailed inspection. 20% crown reduction, providing 1.5m canopy clearance to the new building line. | >40                                               | A-B2                           | 10.8                               | 366                                          |
| T2                    | Ash         | 12.5          | 190                              | 4.5               | 2.5 | 1   | 4   | 5                          | Semi-mature  | Showing reasonable vigour at present, but susceptible to ash dieback disease.                                                               | Prune to provide 1.5m canopy clearance to the building line.                                                                                                          | 15-30                                             | B2                             | 2.3                                | 16                                           |
| T3                    | Ash         | 8.5           | 190                              | 0.5               | 3   | 1   | 1   | 2.5                        | Semi-mature  | Three stems from base- average 110mm.                                                                                                       | Remove                                                                                                                                                                | 10-20                                             | C2                             | 2.3                                | 16                                           |
| T4                    | Ash         | 16            | est 560                          | 9                 | 1   | 5.5 | 5.5 | 8                          | Mature       | Dense ivy around base prevents detailed inspection. Tight fork beneath ivy.                                                                 | 20% crown reduction. Remove ivy.                                                                                                                                      | 15-30                                             | B-C2                           | 6.7                                | 142                                          |
| T5                    | Oak         | 17.5          | 1600                             | 9.5               | 9.5 | 9.5 | 9.5 | 4                          | Veteran      | Fine tree. Major limb to north east removed at 2.5m. Occasional minor deadwood and cavities, but showing good overall vigour.               |                                                                                                                                                                       | >40                                               | A1-2-3                         | 15.0                               | 707                                          |
| T6                    | Ash         | 16.5          | 680                              | 4.5               | 7.5 | 8.5 | 8.5 | 3.5                        | Mature       | Three stems from base- average est. 390mm. Dense ivy and bramble around base.                                                               | Remove a section of ivy from lowest metre of trunk to enable more detailed inspection.                                                                                | 15-30                                             | B2                             | 8.2                                | 209                                          |
| T7                    | Oak         | 18            | 930                              | 8                 | 9   | 8   | 8   | 3                          | Mature       | Good quality tree.                                                                                                                          |                                                                                                                                                                       | >40                                               | A2                             | 11.2                               | 391                                          |
| G8                    | Hedge       | 3             | 25-75                            |                   |     |     |     | 0                          | Mature       | Dense evergreen hedge, containing a mixture of shrub species with dense ivy. Previously trimmed to 2.2m                                     | Remove to facilitate development                                                                                                                                      | 10-20                                             | C2                             | 0.9                                | 3                                            |
| T8                    | Oak         | 16            | 650                              | 8                 | 7   | 9   | 5   | 3.5                        | Mature       | Low branches recently removed. Good vigour.                                                                                                 |                                                                                                                                                                       | >40                                               | A2                             | 7.8                                | 191                                          |
| T9                    | Oak         | 16.5          | 630                              | 4                 | 9   | 8   | 8   | 4                          | Mature       | Recently pruned. Showing reasonable vigour.                                                                                                 |                                                                                                                                                                       | >40                                               | A2                             | 7.6                                | 179                                          |
| T10                   | Ash         | 19            | 810                              | 8                 | 3.5 | 8   | 8   | 3                          | Mature       | Canopy previously pruned back from building and low branches removed. Dense ivy. Susceptible to ash dieback disease.                        | Remove section of ivy from around base. Re-inspect within 18 months.                                                                                                  | 15-30                                             | B2                             | 9.7                                | 297                                          |
| T11                   | Oak         | 8             | 320                              | 9                 | 1   | 1   | 6   | 3                          | Early mature | Poorly structured tree which doglegs over site boundary and with branch hitting adjacent building. Prune 3m clearance to adjacent building. |                                                                                                                                                                       | 10-20                                             | C2                             | 3.8                                | 46                                           |
| G12                   | Undergrowth | 4-9.5         | 50-180                           |                   |     |     |     | 0.5                        | Early mature | Low quality thorn, oak, elder- mostly engulfed in ivy- none of particular individual merit.                                                 |                                                                                                                                                                       | 10-20                                             | C2                             | 2.2                                | 15                                           |
| T13                   | Ash         | 19.5          | 680                              | 9                 | 5   | 7   | 7   | 8                          | Mature       | Main stem bifurcates at 1.8m. Major deadwood.                                                                                               | Remove major deadwood                                                                                                                                                 | 15-30                                             | B                              | 8.2                                | 209                                          |

### Hillingdon Hospital

### Appendix B BS 5837: 2012 Tree Schedule

| Tree/<br>Group<br>No. | Species                            | Height<br>(m) | Stem<br>Diam. at<br>1.5m<br>(mm) | Branch Spread (m) |     |     |     | Canopy<br>Clearance<br>(m) | Age<br>Class | Observations                                                                                   | Management<br>Recommendations                             | Estimated<br>Remaining<br>Contribution<br>(years) | BS 5837<br>Category<br>Grading | Protect-<br>ion<br>Distance<br>(m) | Root<br>Protect<br>Area<br>(m <sup>2</sup> ) |
|-----------------------|------------------------------------|---------------|----------------------------------|-------------------|-----|-----|-----|----------------------------|--------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------|--------------------------------|------------------------------------|----------------------------------------------|
|                       |                                    |               |                                  | N                 | S   | E   | W   |                            |              |                                                                                                |                                                           |                                                   |                                |                                    |                                              |
| T14                   | Oak                                | 19.5          | 420                              | 4                 | 4   | 4   | 4   | 13                         | Early mature | Dense ivy to base. Major deadwood, but showing good vigour.                                    | Remove major deadwood                                     | >40                                               | A2                             | 5.0                                | 80                                           |
| G15                   | Ash                                | 13-16         | 130-320                          |                   |     |     |     | 4                          | Early mature | Ash growing just outside site boundary, but leaning over site.                                 |                                                           | 15-30                                             | B-C2                           | 3.8                                | 46                                           |
| T16                   | Ash                                | 8             | 320                              | 4                 | 4   | 4   | 4   | 3.5                        | Early mature | Reduced vigour. Brick wall becoming embedded in trunk. Attractive crown shape.                 |                                                           | 10-20                                             | B-C2                           | 3.8                                | 46                                           |
| T22                   | Lawson cypress                     | 12.5          | 340                              | 1.5               | 1.5 | 1.5 | 1.5 | 1.4                        | Mature       | Moderate vigour. Dense ivy.                                                                    | Remove section of ivy from base.                          | 15-3                                              | B-C2                           | 4.1                                | 52                                           |
| T23                   | Birch                              | 7.5           | 150                              | 2.5               | 2.5 | 2.5 | 2.5 | 1.5                        | Early mature | Attractive tree.                                                                               | Remove to facilitate development                          | 20-40                                             | B2                             | 1.8                                | 10                                           |
| G24                   | Yew, cherry, Lawson cypress, holly | 3-7           | 10-150                           |                   |     |     |     | 0.8                        | Early mature | Dense thicket.                                                                                 | Remove to facilitate development                          | 15-30                                             | C2                             | 1.8                                | 10                                           |
| T26                   | Cherry                             | 3             | 50                               | 1                 | 1   | 1   | 1   | 1.7                        | Semi-mature  | Low vigour.                                                                                    | Remove to facilitate development                          | <10                                               | U                              | 0.6                                | 1                                            |
| T27                   | Norway maple                       | 7.5           | 180                              | 3                 | 3   | 3   | 3   | 1.5                        | Semi-mature  | Reduced vigour because of inadequate tree pit, but still an attractive tree.                   | Remove to facilitate development                          | 15-30                                             | B2                             | 2.2                                | 15                                           |
| T28                   | Norway maple                       | 4.5           | 230                              | 3.5               | 3.5 | 3.5 | 3.5 | 1.7                        | Semi-mature  | Poor structure. Tree stakes embedded.                                                          | Remove stakes and ties as best possible.                  | 15-30                                             | B-C2                           | 2.8                                | 24                                           |
| T29                   | Ash                                | 11            | 360                              | 6.5               | 6   | 6   | 6   | 1.8                        | Early mature | Major limb to north east from 0.9m. Occasional minor broken branches, but good overall vigour. | Remove secondary branch (80mm) over new parking entrance. | 20-40                                             | B2                             | 4.3                                | 59                                           |
| T30                   | Ash                                | 10            | 270                              | 4                 | 2   | 5   | 5   | 1.8                        | Early mature | Asymmetric canopy. Minor deadwood. Only moderate vigour.                                       | Remove to create new parking area.                        | 15-30                                             | B-C2                           | 3.2                                | 33                                           |
| T31                   | Ash                                | 10            | 260                              | 3                 | 4   | 1.5 | 5   | 2                          | Early mature | Basal bark damage with underlying decay. Surface roots damaged. Reduced vigour.                | Remove to create new parking area.                        | 15-30                                             | B-C2                           | 3.1                                | 31                                           |
| T32                   | Ash                                | 10.5          | 300                              | 4                 | 4   | 3   | 3   | 1.8                        | Early mature | Minor deadwood. Moderate vigour. Broken branches.                                              | Remove to create new parking area.                        | 15-30                                             | B-C2                           | 3.6                                | 41                                           |
| T33                   | Lime                               | 17            | 640                              | 6                 | 6   | 6   | 6   | 2                          | Mature       | Good quality tree.                                                                             |                                                           | >40                                               | A2                             | 7.7                                | 185                                          |
| T34                   | Field maple                        | 8.5           | est 250                          | 3                 | 3   | 3   | 3   | 2                          | Early mature | Growing outside site - base not inspected.                                                     |                                                           | >40                                               | B2                             | 3.0                                | 28                                           |
| T35                   | Hedgerow                           | 2-4.5         | 25-50                            | 0                 | 0   | 0   | 0   | 0.3                        | Early mature | Majority elder, with some field maple and pyracantha, growing outside site.                    | Cut back as necessary                                     | 10-20                                             | C2                             | 0.6                                | 1                                            |
| T36                   | Birch                              | 9             | 230                              | 3                 | 3   | 3   | 3   | 0.6                        | Early mature | Attractive tree                                                                                |                                                           | 20-40                                             | B2                             | 2.8                                | 24                                           |

## 14. Storage of Fuels and Hazardous Substances

Containers must be stored within spill nappies, bund or any other suitable secondary containment system (SCS). All containers shall be located outside of/ away from the root protection areas of existing trees and in a safe place to minimise the risk of damage and locked-off when not in use. For oil tanks, intermediate bulk containers and mobile bowsters the SCS must be able to hold: Where one container is being stored - a minimum of 110% of the total volume; Where more than one container is being stored - a minimum of 110% of the largest container's storage volume, or at least 25% of their total volume (whichever is greater);

## CONSTRUCTION MANAGEMENT AND ENVIRONMENTAL MANAGEMENT PLAN

For drum storage, the interceptor tray must be able to hold at least 25% of the total storage capacity of the drums.

Bunded areas must be made impermeable to water and oil. The base and walls must not be penetrated by any valve; pipe or opening that is used for draining the system.

Refuelling will not occur within 10m of the existing stream.

### 15. Waste Management

WBS has appointed Acorn Waste Management to provide skips, remove, transfer and dispose of waste. On site segregation will include metal, gypsum, timber and general waste. Acorn will provide a monthly report identifying waste channels and percentages of waste recycled or removed to landfill.

Burying or burning of waste or unlicensed removal will not be permitted.

## Certificate of Registration under the Waste (England and Wales) Regulations 2011

### Regulation authority

Name



Address

National Customer Service Centre  
99 Parkway Avenue  
Sheffield  
S9 4WF

Telephone number

03708 506506

The Environment Agency certify that the following information is entered in the register which they maintain under regulation 28 of the Waste (England and Wales) Regulations 2011.

### Carriers details

Name of registered carrier

Acorn Waste Management Ltd

Registered as

an upper tier waste carrier, broker and dealer

Registration number

CBDU340029

Address of place of business

ACORN WASTE MANAGEMENT  
UPTON MAGNA BUSINESS PARK  
UPTON MAGNA  
SHREWSBURY  
SY4 4TT

Telephone number

+448452704317

Date of registration

Wednesday 10th June 2020

Expiry date of

registration (unless  
revoked)

Saturday 10th June 2023

### Making changes to your registration

Your registration will last 3 years and will need to be renewed after this period. If any of your details change, you must notify us within 28 days of the change.

## **16. Noise Dust and Vibration**

### **Control Measures**

- Using sheeted lorries and sealed / covered skips;
- Using dust extraction equipment when drilling and cutting;
- Damping down haulage roads and stockpiled materials in dry or windy weather;
- Sweeping access roads regularly
- Grassing over topsoil which is being stockpiled for landscaping or off-site re-use
- Locating plant and equipment away from sensitive receptors where practicable
- Using screens, including earth bunds to act as acoustic barriers;
- Isolating plant and equipment when not in use;
- Keeping engine compartment doors closed and screening off generators
- Limit vehicle movements on-site where practicable
- Avoiding double handling of materials where practicable
- Monitoring noise, dust and vibration levels

## **17. Communication**

Communication with the public will be via letter drops prior to the delivery of the modular building sections. Site Management contact details will be posted at the entrance to the site.

The project will be registered with the Considerate Contractors Scheme

Communication methods with site personnel will include inductions, a hazard board, toolbox talks, briefings, letters, memos and review meetings.

Communication with the hospital and their representatives will be through email, phone calls and project meetings. A monthly HSE report will be included within the project report.

## **18. Monitoring**

Monthly environmental inspections will be carried out the SHE Manager of our SHE consultant and will be included within monthly client reports.

---