ERNEST PARK

Construction Phase Plan

In pursuance of the Construction Design and Management Regulations 2007

11-13 Goodge Street

Revision B

Prepared by

ERNEST PARK

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1 Introduction

"The agreed contents of this construction management plan must be complied with unless otherwise agreed with the Council. The project manager shall work with the Council to review this construction management plan if problems arise in relation to the construction of the development. Any future revised plan must be approved by the Council and complied with thereafter."

This CMP sets out the arrangements that are to be implemented in order to manage the project-specific Health and Safety aspects arising from our undertakings. The primary purpose of this Plan is to inform all employed persons (including sub-contractors) of significant health, safety and environmental risks associated with carrying out the works and communicating the measures that are to be adopted to ensure, so far as is reasonably practicable, that all risks to those affected by our works are reduced to the lowest level.

Project Directory

1.2 Details of Client, Designers, CDM Co-ordinator and Other Consultants

1.2.1 Client

Goodge Street
(Tottenham Court Road) LLP
c/o 22 Old Bond Street
London
W1S 4PY

Contacts:
Ian Williams-Slaven

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1.2.2 Designer

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Old Church Court
Claylands Road
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Contact:
Andrew Long

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Email: andrew@rolfe-judd.co.uk

1.2.3 Quantity Surveyor

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Leigh-on-Sea
Essex
SS9 3EJ

Contact:
Ken Baines

Telephone: 0170 248 2643
Email: kenbaines@bainesgroup.co.uk

1.2.4 Services Engineer

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WC2B 6XF
SS9 3EJ

Contact:
Marketa Ruzickova

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Email: mruzickova@mtt-limited.com

1.2.5 Structural Engineer

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50 Westminster

Contact:
Simon Fowle

Bridge Road
London
SE1 7QY

Telephone: 0207 933 7561
Email: sfowle@bridgtespound.co.uk

1.2.6 CDM Co-ordinator

Thomas & Adamson
10 Wemyss Place
Edinburgh
EH3 6DL

Contact:
Warren Bradshaw

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Fax: 0131 225 5514
Email: warren.bradshaw@thomasandadamson.com

1.2.7 Principal Contractor (all main contractor legal documents and invoices are to be sent to this address)

Ernest Park Ltd
1 Aldgate
London
EC3N 1RE

Contact:
Neilus McCarthy - Project Manager

Telephone: 07714 255234
Email: nmccarthy@ernestpark.com

1.2.8 Principal Contractor (Registered address)

Ernest Park Ltd
20 Harwoods Road
Watford
WD18 7RA

1.2.9 Site Contact Details

11-13 Goodge Street
London
W1T 2EP

Contact:
Kevin O'Connor – Construction Manager

Telephone: 0203 637 1296, 07714 256 632
Email: koconnor@ernestpark.com

DOCUMENT CONTROL

This Construction Phase Health and Safety Plan will be regularly reviewed and updated as necessary throughout the duration of the construction phase. The Ernest Park project manager is responsible for ensuring the CPP is kept up to date.

Revision	Date of Revision	Revised By	Reason for Review
Initial Draft	5th February 2015	N McCarthy	Initial Draft
Revision A	5th March 2015	N McCarthy	Issued for formal approval
Revision B	22th April 2015	N McCarthy	Comments from Camden implemented

2 Nature of Project

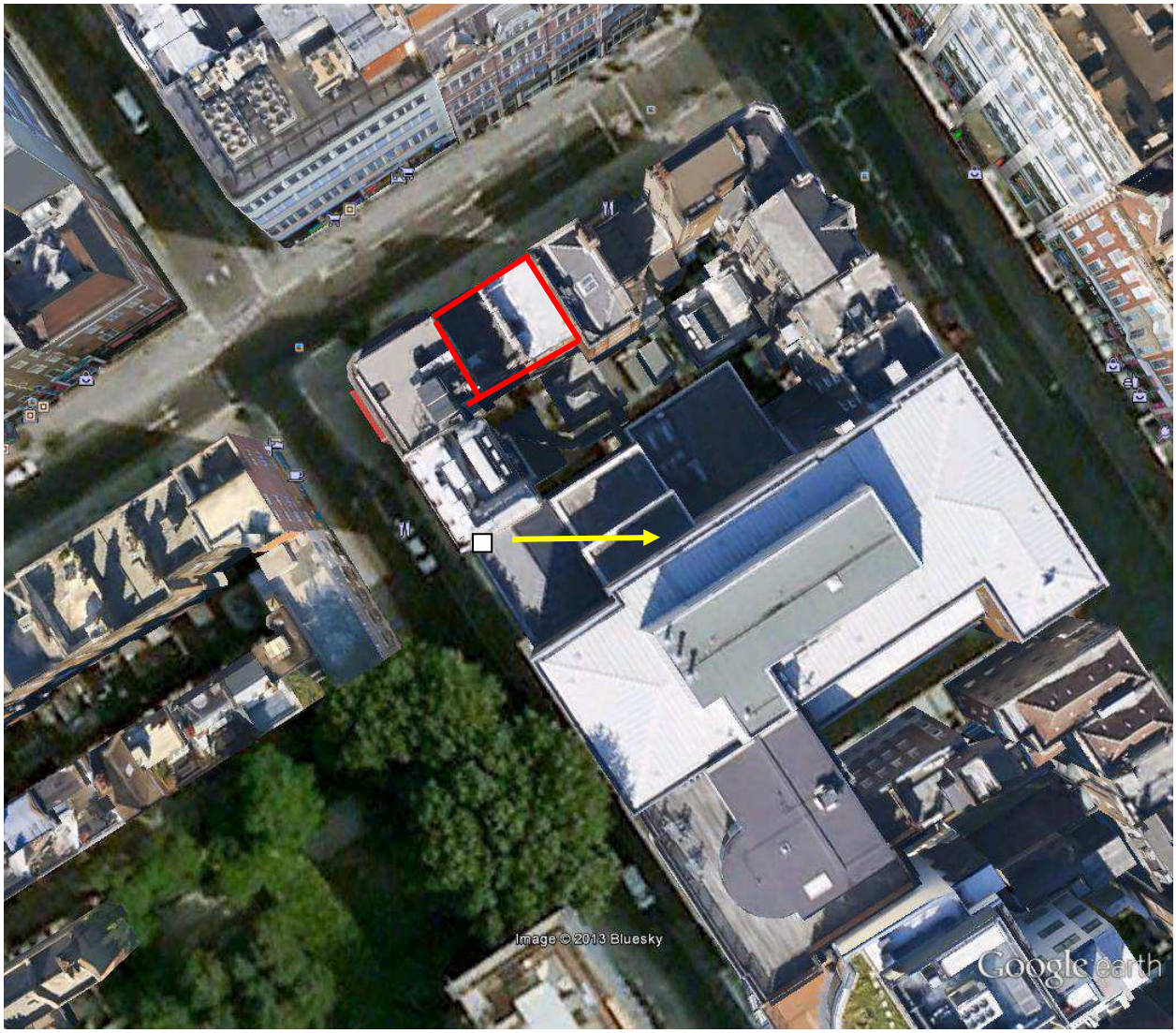
Description of the Project

This Project represents following works at 11-13 Goodge Street:

- Demolition of the existing building to 1st Floor
- Erection of steel structure
- Associated flooring
- Facades compromising of brickwork, stone cills and arches and period windows
- Complete roofing elements
- Full internal turnkey fit out including complete mechanical and electrical.

The scope of this description will be redefined and updated as design packages come online and more design specific detail becomes available.

Site Boundary;



Site

British Transport Police

Project Health and Safety Goals;

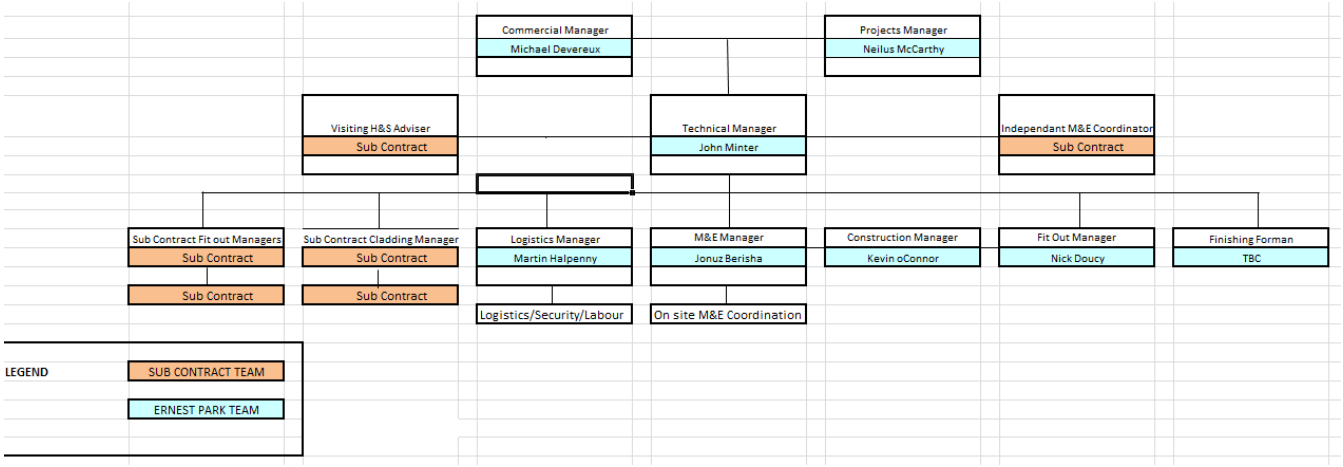
- To fully comply with all UK Health and Safety Legislation
- To target zero for harm to public; personnel; plant and the environment
- To adopt a proactive approach in identifying and solving potential health, safety and environmental issues
- To ensure that the public and adjoining properties are not exposed to significant additional health and safety risks and that disruption is reduced to the minimum reasonably practicable extent
- To ensure that the contractors constructing the works have sufficient competence; resources and information to carry out the works safely.
- To ensure the provision of a safe work place for all operatives and a high level of safety awareness through safety training to address both general and specific issues.

Additional Health and Safety Goals

- Ensure the project is subject to a health, safety and environmental audit by a competent appointee on a minimum bi-weekly basis - audit reports to be submitted to client or parties appointed by the client on request. Audits will be carried out by our CDM Coordinator Thomas and Adamson.
- Ensure arrangements are in place for a visible audit programme.
- Ensure all personnel are satisfactorily skilled in the use of the English language, or supervised by someone who is, to ensure adequate awareness in respect of the requirements of health & safety standards. This will be part of a suite of control measure including relevant signage, interpretations and language specific guidance.
- Ensure all personnel are CSCS card holders or are registered on an authorised scheme to obtain their CSCS card including obtaining the relevant NVQ skills training level where necessary.

Management Arrangements

Outline Management Structure



Responsibilities

The essential structure to implement this plan is shown in the diagram above, together with a summary of the duties of each person that follows:

Project based staff

Project Manager

- Procurement of competent contractors
- Project method statements – major items
- Co-ordination and control of contractors – package management
- Environmental issues
- Project planning for safe sequence of operation

Construction Manager

- Appointed health and safety co-ordinator
- Daily visual safety inspections
- Project risk assessment including COSHH, noise and manual handling – smaller items
- Co-ordination and control of contractors – on site
- On site safety discipline including housekeeping
- Crane appointed person
- Fire precautions co-ordinator including hot works permits

Package Managers/Supervisors

- Daily visual safety inspections
- Induction training
- Tool box talks (Ernest Park personnel)
- Monitoring contractors tool box talks
- On site safety discipline including housekeeping
- Protective equipment issue
- Plant and equipment co-ordinator including test certificates and operating training

Health and Safety Adviser

- Advise on all H&S matters
- Site health and safety audits
- Noise monitoring

Site Engineer

- Scaffold co-ordinator

- Temporary works co-ordinator

Technical/Design Manager

- Co-ordinate flow of design information
- Progress and accumulate information for the H&S file

Specific Detailed duties of key staff

Project Manager

The project manager is responsible to the construction director for the implementation of the company's health and safety policy on site. On small sites, where there is no construction/site manager the project manager will fulfil the duties of the construction/site manager as well.

The project manager has the following duties:-

- Review the construction phase health and safety plan produced by safety department and provide adequate staffing of the project to enable all of the functions identified in the plan to be satisfactorily discharged.
- Brief all construction managers and supervisors on their role within the health and safety plan and ensure that all supervisors sign the supervisors' declaration in respect of their health and safety responsibilities.
- Plan the strategy for the construction of the project in a way that will minimise safety hazards to the workforce. Be aware that the safest method of proceeding must always be used.
- Organise any sub contracting in a way that minimises risk and maximises the ability of the available site team to control the sub-contractor.
- Ensure that the prequalification of sub-contractors is carried out including the pre-start meeting, and that this is documented and that all insurances are checked and in place.
- Carry out the Ernest Park in-house pre-start meeting for packages of work to be carried out by Ernest Park or CMP agency personnel. Ensure adequate competent supervision and an appropriate risk assessment and method statement for the package activities.
- Ensure that scaffolds and temporary works (propping, shoring etc.) are properly designed by a competent engineer and drawings produced that show clearly the requirements of the scheme, including the allowable loadings.
- Assist with risk assessments particularly developing those indicated in the project health and safety plan and ensure that those supervising high risk items understand the requirements of the method statements.
- Always make the time to discuss safety issues with the safety adviser, review with him or her safety inspection reports, and ensure that the items on the report are actioned in a timely manner. Once completed the report should be signed off and faxed to safety department for verification.
- Lead by example and by a determination not to tolerate poor safety performance. Always consider safety ahead of production.

Construction Manager

The construction manager or site manager is responsible to the project manager for the practical implementation of the project health and safety plan on site. On small sites where there is no project manager the construction manager will fulfil the project manager's duties as well.

The construction manager is designated as the project health and safety co-ordinator within the health and safety plan. The construction manager must ensure that all of the roles within the plan are satisfactorily discharged.

The construction manager has the following duties:

- Maintain the working section files 1 – 18 in good order, up to date and ready for inspection at any time.
- Implement the provision and maintenance of safe working environments and systems of work. Ensure compliance with statutory and company regulations and all other regulations applicable to construction and related industries.
- Assist with risk assessments particularly developing those indicated in the project health and safety plan and ensure that those supervising high risk items understand the requirements of the method statements.
- Control all contractors and sub-contractors. To establish safe and healthy systems of work, provide written instructions to establish working methods to clearly define the sequence of operations, make

assessments, and outline potential hazards at each stage of the operations. Monitor records, registers and other documentation as required.

- Control all Ernest Park based activities and packages including the adequate supervision of such works by suitably trained and competent persons.
- Ensure that all site plant and equipment is safe to use, mechanically sound, free from defects, properly maintained and where applicable, copies of the statutory, test and/or thorough examination certificates are up to date and available while the plant or equipment remains on site.
- Ensure that all users of plant and equipment are adequately trained and authorised to use the equipment.
- Ensure that all personal protective equipment identified by risk assessment is available and used, and that where necessary training in the maintenance and use of the equipment is provided.
- Establish procedures for fire and emergency action to be taken in the event of serious and imminent danger, to appoint a competent person to implement the procedures laid down and ensure that the competent person(s) nominated, have received sufficient training to undertake those duties.
- Establish a good working relationship with any appointed workforce safety representative, attend the safety committee meetings and site safety meetings whenever possible, co-operate with the Safety Adviser in the assimilation of information related to all safety matters, ensure that copies of any correspondence, reports, etc., concerning any safety issues on projects, are forwarded to the Health and Safety Director and Project Safety Adviser, for information and where appropriate, action.
- Ensure that all incidents, injuries and dangerous occurrences are promptly reported to the safety department. Fully complete the accident report provided in the accident book and return to safety department. Investigate accidents and dangerous occurrences and co-operate fully with the project safety adviser as required in the accident investigation.
- Ensure that all registers, records, and certificates are kept up to date and available for examination, that all statutory abstracts, notices, posters, safety information placards and site responsible persons names and emergency telephone numbers are displayed at the appropriate location on site.
- Co-operate with the safety adviser at all times, accompany him or her on their site inspection tours, and ensure that items recorded on safety inspection reports are actioned in a timely manner.
- Lead by example and by a determination not to tolerate poor safety performance. Always consider safety ahead of production.

Package Managers/Supervisors

Responsible to the construction manager for implementing the requirements of the project health and safety plan under his or her control.

The supervisor/foreman has the following duties:

- Ensure that all activities under his control are adequately assessed and all foreseeable hazards are eliminated or controlled to establish and maintain places and systems of work that are safe and without risk to health and that safety devices, equipment and protective clothing are provided and correctly used.
- Give health and safety instructions, **and see they are obeyed.** Do not permit individuals to take unnecessary risks, encourage them to report any defects or other problems that may adversely affect their health and safety, or that of others.
- Co-ordinate with the sub-contractors and all others affected by the works, in the exchange of information and co-ordination of measures and procedures, to be taken in the event of emergency, dangerous occurrences or risks arising from or connected to any site undertakings.
- Establish procedure for daily and weekly safety inspections, and monitor that all activities are undertaken in a safe manner.
- Satisfy themselves that the employees under their control are properly supervised and have received information and instructions on risks associated with the tasks being undertaken, see the necessary certificates of training or suitable certificates of competence.
- Undertake induction training, toolbox talks and task briefings ensuring that all workers under their control have been given an appropriate task briefing that explains the relevant method statements. Select appropriate toolbox talks that reinforce the task briefing and provide these to the work force in a careful and sincere manner.
- Cooperate with the safety adviser at all times; accompany him or her on site tours and action items on the inspection in a timely manner.
- Set a good example of all times, by adopting safe systems of work, pass on information and instruction at task allocation briefings. Discourage improvisation, encourage the correct wearing and use of personal protective equipment. Ensure that only trained and authorised personnel operate items of plant.

3 Existing Environment

Existing Site Environment

Welfare facilities have been arranged within no. 61 offices and these will be occupied by Ernest Park as described in Welfare section on page 14 of this document.

All temporary works will be handed over to Ernest Park when we take possession and our temporary works coordinator will ensure that all designs, monitoring regimes and coordination arrangements are in place. Where additional temporary works are required such as scaffold erection our temporary works supervisor will ensure that all design related elements are coordinated and regular inspections carried out.

Existing Information

Existing Pre-Construction information has been provided by the CDM Coordinator

Pre-Start Surveys

Ernest Park will undertake a full condition survey of the entire site to include;

- Survey of party walls with adjacent buildings.
- Mechanical Survey
- Electrical Survey (Including isolation details)
- CCTV Drainage Survey
- Engineering survey of existing temporary works

We shall also carry out a dedicated pre-start survey to ascertain any further Health and Safety hazards that may not have been included in the Pre-Construction information and may be applicable to the contract including hazardous materials and to establish a safe sequence of work. The survey will identify the possibility of the following but not limited to;

- Condition and Dilapidations
- Hazardous materials and substances including Lead based paint
- Pigeon faeces and organic contaminants
- Hypodermic needles
- Recyclable materials

All surveys will be witnessed and agreed by the relevant parties before being widely distributed to the team.

Security and access:

The site layout plan located within Appendix 1 provides the proposed site boundary and the delivery set down area..

Access to site will be via no 13 Goodge St. Site will have 24 hr security located on site

Operatives will sign-in upon arrival and an induction will been completed in which we will clearly inform all operatives and visitors of the location of specific areas, access routes, welfare facilities and the main safety requirements during their site induction with each person being shown a clearly defined site layout plan.

No one shall be allowed onto the site without being fully conversant with the site rules, been fully inducted and confirmed they have read and understood the content of their Method Statements. Site induction will take place each day and will be administered by our Project Manager.

Hours of Work:	Monday to Friday 8am – 6pm, Saturday 8am – 1pm
Out of hours operations:	By arrangement only, subject to supervisory arrangements.

Only inducted operatives are allowed within the site areas. Every person attending or working at the site must wear Hi-Visibility clothing.

Removal of Waste Materials and Waste Management;

The delivery of materials and removal of rubbish will be carefully co-ordinated by our Project Manager so as to minimise the disruption to the surrounding environment. On a sensitive project such as this it is imperative that the site and surrounding areas are kept clean and tidy throughout the working day.

We will be operating a waste segregation system on this site and loading separated waste into 3 skips located in the loading area. Generally we will segregate wood, metals and plasterboard and general waste.

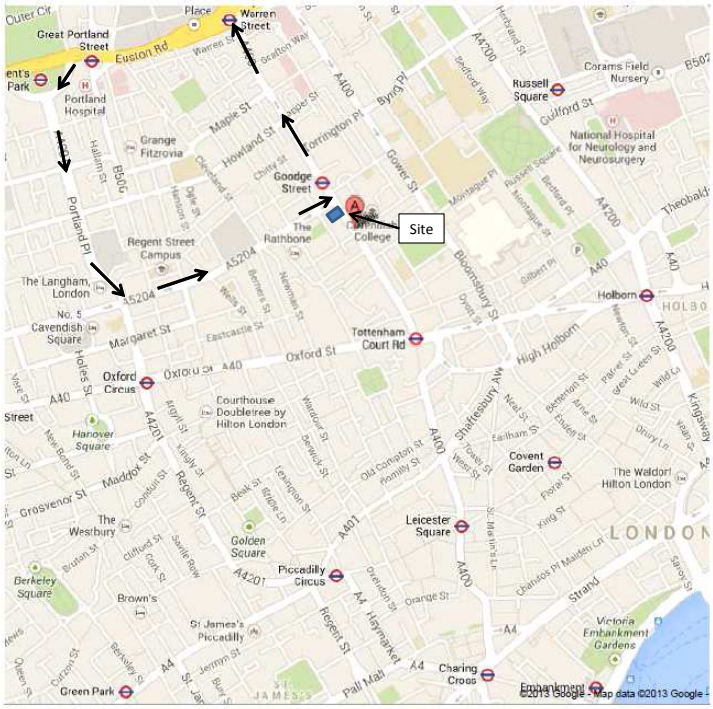
Waste produced at the work face will be loaded into wheeled bins and taken at agreed times during the day to the waste storage Skips located as shown on the site layout plan in Appendix 1. We anticipate that there will be approximately 1 waste away vehicle every other day throughout the initial phases of the project, reducing as required depending on the on-going work activities.

Asbestos Management

Asbestos has been removed and managed by Client prior to the job commence
All operatives working on Ernest Park sites will hold valid and current Asbestos Awareness training due to the risk of residual asbestos that was not previously discovered or removed. Please see asbestos emergency procedure on page 25 which describes our arrangements in the case of discovering suspect material.

Traffic Management

Part A: Routes to site/Interaction with TFL road Network;



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Vehicle routes

Part B: Traffic Management Detail Drawing;

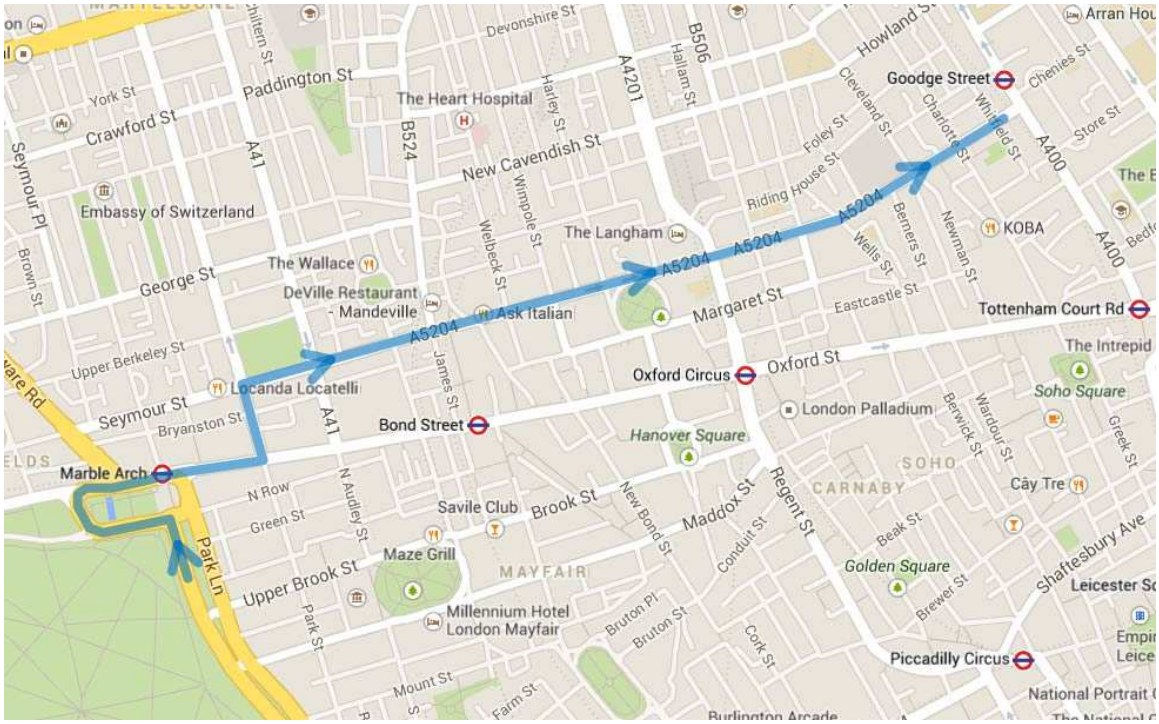
Please see the Traffic Management Drawing Located in Appendix 2 including loading and unloading points, location of banksman, and direction of traffic and swept path details.

Part C: Loading and Unloading Interface;

Please see the site Layout Drawing Located in Appendix 1 which identifies set down and pick up points and interface with the slewing radius of the tower crane. A vehicle holding area will be organised off site and vehicles will be directed to this holding area and call forward to the site logistics manager for call in to site to prevent any waiting or obstruction of neighbouring premises. The holding area will be to the South of the bus stop area of Park Lane on the northbound layby as indicatively shown below;

Holding area:

Route to Site from holding area



Part D: Planned Number of Vehicles

Between the period of April to May we anticipate between 5 to 10 deliveries per day which will include primary superstructure elements such as steel, concrete, roofing and cladding elements. Waste away during this period is likely to be at least 1 every 2-3 days.

Following May 2015 to February 2016 material deliveries will become more frequent and could be up to 20 per day on exceptional days. These would consist of smaller deliveries of mainly fit out material such as M&E elements and internal fitments etc.

Project Planning Requirements

- **A brief description of the site, surrounding area and development proposals;**
  See Section 2 Nature of the Project on Page 6 of this document.

- **Start and End dates for each phase of construction;**
  Commencement in the first quarter of 2015, completion anticipated in the 1st quarter of 2016.

- **The proposed working hours, those within which vehicles will arrive and depart and operations involving noise can occur,**
  Working hours will be between 8am -6pm Mon- Friday, 8am-1pm Saturday. Construction vehicle movement will take place between 9.30am to 4.30pm on weekdays and between 8.00am and 1pm on Saturdays.

- **The access arrangements for vehicles;**
  See Traffic Management Diagram Drawing located in Appendix 2

- **Proposed routes for vehicles between the site and the Transport for London Road Network (TLRN). Consideration should also be given to weight restrictions, low bridges and cumulative effects of construction on the highway;**
  See Traffic Vehicle Routes sketch on page 12 of this document

- **Sizes of all vehicles and the frequency and times of day when they will need access to the site, for each phase of construction;**
  Se part D of the traffic management plan on page 13 of this document. Times restricted to 9.30am- 4.30pm Mon-Friday, 8am-1pm Saturday

- **Swept path drawings for any tight manoeuvres on vehicle routes to the site;**
  See Traffic Management Diagram Drawing located in Appendix 2.

- **Details (including accurate scaled drawings) of any highway works necessary to enable construction to take place**;
  None.

- **Parking and loading arrangements of vehicles and delivery of materials and plant to the site;**
  No parking on site, vehicles loaded from the loading unloading area. Vehicles will be located in existing lay-by for unloading via tower crane. Please see site layout drawing in Appendix 1 for Gantry Details, slewing Radius, loading and unloading area. See Traffic Management Diagram Drawing in Appendix 2 for vehicle holding area in Lay By.

- **Details of proposed parking bays suspensions and temporary traffic management orders;**
  None.

- **Proposed overhang (if any) of the public highway (scaffolding, cranes etc.)**;
  Scaffolding, gantry shown on Appendix 1. Licence will be obtained.

- **Details of hoarding required or any other occupation of the public highway;**
  Hoarding to inside line of gantry in Goodge Street in Appendix 1. Licence will be obtained.

- **Details of how pedestrian and cyclist safety will be maintained, including any proposed alternative routes (if necessary), and any banksman arrangements;**
  Pedestrian access to be maintained beneath gantry in Goodge Street. All vehicles entering the lay-by holding area will be under the control of 2no banksman. See locations of Banksmen in Traffic Management Drawing located in Appendix 2. We confirm that as a company we ensure that all contractors and subcontractors operating large vehicles over 3.5 tonnes will meet all of the conditions as outlined in the CLOCS Standard.

- **Details of how traffic associated with the development will be managed in order to reduce congestion;**
  Vehicles will park in the existing lay by and will not interfere with traffic flow except briefly when pulling into the Lay-by and pulling out, at which times they will be under constant control of the two Banksmen. See Traffic Management Drawing Located in Appendix 2.

- **Arrangements for controlling the movements of large/heavy goods vehicles on and in the immediate vicinity of the site, including arrangements for waiting, turning and reversing and the provision of banksmen, and measures to avoid obstruction of adjoining premises;**
  Vehicles will access the site via Portland Place, Mortimer Street and Goodge Street and will exist via TCR as shown in the traffic management drawing located in Appendix 2. Site logistics will be organised by our appointed logistics manager. A vehicle holding area will be organised as described on page 13 of this document.

- **Details of any other measures designed to reduce the impact of associated traffic (such as the use of construction material consolidation centres);**
  All site deliveries will be organised in advance by our site logistics manager utilising the internal logistics system whereby all deliveries are booked in 48 hours in advance and times to arrive throughout the day in hourly intervals.

- **Details of how any significant amounts of dirt or dust that may be spread onto the public highway will be cleaned or prevented;**
  We do not envisage any materials being transported from the site into the public area. The external scaffolding will be fully monoflexed with the first lift double boarded and polythene interlaying sheet to minimise dust and dirt. Regular inspections of public areas by our site team will ensure that any requirements for cleaning are identified and actioned as soon as possible.

- **Details of consultation on a draft Construction Management Plan with local residents, businesses local groups and Ward Councillors;**
  See Interaction with the Community as detailed on page 26 of this document.

- **Details of any Construction Working Group that may be required, addressing the concerns of surrounding residents, as well as contact details for the person responsible for community liaison on behalf of the developer, and how these contact details will be advertised to the community;**
  See Interaction with the Community as detailed on page 26 of this document.

- **A statement confirming registration of the site with the Considerate Constructors Scheme and guide for Contractors in Camden and Camden Considerate Contractors Manual;**
  Confirmed.

- **Details of other construction sites in local area and how your Construction Management Plan takes into consideration the cumulative effects of construction local to your site;**
  Ernest Park are attending regular meetings being held by cross rail in order to minimise the cumulative effect of numerous sites within the Camden area.

- **Any other relevant information with regard to traffic and transport.**
  As above

4 Drawings

Up to date drawings are to be stored on site, any revisions will be clearly marked as such. For any design related items, the changes must first be approved by the Designer and CDM Co-Ordinator. The project manager and trade companies must be aware that any input into design carries duties under the Construction (Design and Management) Regulations 2007 and should be avoided unless approved by the project manager and/or the designer. Where possible, safety critical elements of the design will be listed on the drawings themselves through annotations and notes.

5 The Design

Significant hazards associated with the Design

We anticipate that with support from the CDM Coordinator we will receive design related hazard information as each design package is released. Each of the design disciplines should provide this information either in the form of notes and markings on the construction issue drawings or as separate design hazard registers. This information will feed into our site level risk assessment process as we plan for each operation.

Contractors Design

Ernest Park will inform the CDMC and broader consultant team in advance of any design work that is to be carried out by ourselves or other contractors during the construction phase. Such work may include engineer-designed temporary works, eg false work or scaffolds, design by specialist contractors and the design involved in changes or contract variations. Information to be provided should include: key staff name and contact details for each package of design. All such design will be prepared in accordance with CDM Regulation 11 and will follow the principles of prevention. The consultant team will be given the opportunity to attend all design team/review meetings. The Design risk management output and other health and safety information resulting from the design will be passed to the consultant team for review, comment and coordination purposes prior to any decision to proceed with the related construction work.

Design Changes

We anticipate design review to be regular throughout the construction phase and will schedule meetings with the Client and CDM-C when appropriate. During the construction phase we shall inform the CDMC of any unforeseen eventuality resulting in a substantial design change, any proposal to depart from the established principles of the design or assumptions set out in the Pre-Construction Information, any change to information for inclusion in the Health and Safety File. We are required to agree with the CDMC all proposals and changes, such as described above and to the extent that they affect design, prior to their implementation.

6 Site Wide Elements

Specific Risks associated with the works;

We have undertaken a site wide risk assessment located in Appendix 4 prior to commencing the construction phase and this process has identified a number of specific risks associated with the works. This Risk Assessment is subject to continual review as more information is gained through the initial survey and scope formation during the first few weeks of the contract.

Sub-Contractor Control

It is expected that the majority of the works will be carried out by sub-contractors, and as such they are expected to work to the method of works and associated risk assessments produced specifically for this job. Procurement of Sub-Contractors will be undertaken within the remit of Ernest Park Sub-Contractor Procurement Policy.

Contractor Competence

It is of paramount importance that the Company employ only competent sub-contractors. As a general rule we employ and operate contractors that Ernest Park are familiar with and have worked with over recent years to bring to Ernest Park's standard of Health and Safety achievement. These contractors are sourced from our approved list of supply.

Where we may need to bring in a contractor that has not yet been approved and added to our list of supply, prior to any appointment the Operations Director & Project Manager will discuss whether the sub-contractor is competent and will undertake a responsible attitude to Health and Safety. Each contractor will be subject to our

Sub-Contractor competency questionnaire. Competence will be ascertained by past experience, references, interviews, evidence of qualifications and method statements etc. and this review will be undertaken for contractors who are "new" to the Company during our formal Pre-Let meetings. These meetings will include detailed questioning on the company attitude and outlook to health and Safety, their Insurances, Policy, Safety Record and Review of the contractors method statements and risk assessments. We will also request information regarding previous HSE actions and ask for external accreditations such as CHAS, Safe Contractor and EXOR (etc.) as evidence of stage 1 H&S competence in accordance with the competence schedule described within the CDM ACoP.

Risk Assessments and Method Statements

RAMS documentation shall be in place before the subcontractor starts on site and will be used to measure their Health and Safety performance throughout the duration of the project. Ernest Park will ensure all required evidence of competence, insurance and Method Statements, Risk Assessment and COSHH information is available before any contractor is allowed to start on site.

Review of Method Statements:

Each contractors RAMS will be subject to a "10 point review" system. Copies of RAMS for each works package will be kept on site within the site safety folder faced with the relevant review sheet for inspection. Ernest Park reserve the right to prevent the start of any activity should the RAMS not represent the standard we expect from our Contractors.

Evidence of Training:

Certificates of competence will be required from all operatives to CSCS standard. CPCS certification will be required for plant operators on site, IPAF for MEWP operators and PASMA for constructors of Mobile Aluminium Scaffold Towers. Suitable training certification will be requested for banksman appointed for delivery and vehicle movement operations. Furthermore, those mounting and using abrasive wheels will require evidence of training. All other trades will be expected to provide evidence of training received by their employees specific to their activities. We reserve the right to prevent or halt the activities of any operative unable to produce suitable evidence of Health and Safety training.

Fire Risk Assessment (Construction Phase)

This site fire risk assessment undertaken as part of the Site Wide Risk Assessment process located in Appendix 4 will be under constant review and if required will be revised throughout each element of the construction phase, but in particular in the event of;

- Major alterations to internal partitions resulting in a change of escape route.
- Additional flammable materials and or substances bought to site.
- Any alterations required to fire compartmentalisation, including but not limited to fire screens, fire doors, fire partitions, dry risers, and any planned or unplanned additions or adaptions to the fixed detection and alarm system.
- No longer than a 14 day period.

Fire Detection and Alarm

There is no existing fire alarm system. Therefore the construction area will be protected by fixed fire points fitted with a fire bell at locations detailed on the Site Layout Plan located in Appendix 1.

Fire Extinguishing Media

Adequate fire extinguishers will be supplied and located in strategic locations in and around the site in accordance with the site Site Layout Plan located in Appendix 1. Media will be organised within the work areas in accordance with the Plan.

Maintenance of fire routes to adjoining areas and buildings:

Ernest Park will ensure that throughout the contract any fire exits that open out on to the site or adjacent to the site from adjacent areas/buildings are maintained as escape routes and that persons can escape in an emergency or in a fire drill in an orderly way to a safe assembly area and not sustain any injury due to uneven ground, lack of guard rails, handrails or trip over building materials, plant etc.

All personnel will be made aware of the procedures and requirements prior to working on site through the site induction process. Additionally;

- Particular attention will be paid to all site accommodation.
- Specific formalised weekly checks on fire detection, alarm and extinguishing media will be carried out.

- High risk materials and hot works will be strictly controlled on a permit to work system (hot works on site will only be permitted if no alternative is available).
- No smoking will be permitted on site except in the designated area.
- No waste including packaging material or inflammable waste will be allowed to accumulate on site.
- Gas, if required, will be stored in controlled separate areas.
- Means of escape shall be checked daily and maintained throughout the contract.

In the initial instance, and on an ongoing basis we will engage with local building managers and retail outlet operators to ensure fire safety matters are properly coordinated. We will mark up fire plans and keep these up to date through regular liaison.

Hotworks

Prior to any activity likely to introduce an ignition source (Hot works), Ernest Park will issue a Hot works Permit which will include details of control measures required by both Ernest Park's procedures, Client requirements and any relevant RAMS associated with the activity.

Any operative carrying out hot works such as cutting, welding and soldering, including any bituminous works will be expected to have their own extinguishers with them while working and will be provided with the daily hot work permit by Ernest Park. Cutting will cease 1 hour before the end of the day and the workplace checked before closure for smoulders or possible sources of ignition.

Noise and Vibration

We are sensitive to the issues arising with regards to the generation of dust, noise and vibration. These activities will generally be undertaken at reasonable times, not before 9am and not after 5pm. All such works will be subject to risk assessment and in the case of vibration trigger time logs will be maintained where necessary. As a general rule we will attempt to mechanise these operations whenever possible to eliminate vibration risk. All employees will be informed about the need to minimize noise and about the health hazards of exposure to excessive noise. Vibration caused by the works shall be negligible due to the fact that others have carried out all groundwork operations prior to this phase of the works commencing.

In order to satisfy local authority criteria, the relevant legislative regulations / standards in place and also the obligations contained within the Hann Tucker Environmental Noise Survey dated 12th February 2013 (Appendix 5) we will monitor noise and vibration as appropriate during the course of the works. We will work towards a lower noise threshold of 75 decibels dB (A) at the boundary of the nearest sensitive façade. If the measured levels are more than 3dB (A) above the predicted noise levels, or in the event of complaint of noise an investigation will be carried out. BS 5228:2009 is not particularly applicable on this project because it does not involve works of a sub structure nature.

The quietest and newest vehicles/plant machinery will be used at all times. All vehicles and mechanical plant used for the purpose of the works will be fitted with effective exhaust silencers, maintained in good and efficient working order and operated in such a manner as to minimise noise emissions.

Dust Control

Measures are required to be employed to control the build-up of dust generated by the site activities, during the times of the heaviest construction activities. Constant vigilance will be applied by the Project Manager in order to ensure levels are kept to an absolute minimum. Contractor's tools and equipment are will be dust protected, either by localised extraction, wetting down techniques or manufacturer approved dust suppression measures. Where necessary we will consider application of filtration to reduce emissions from the site but ultimately wet suppression techniques will be prioritised to provide containment as well as extraction. Dust Risk Assessment has been undertaken in line with GLA's Control of Dust and Emissions Supplementary Planning Guidance (SPG), and can be found in Appendix 6.

Areas where there is vehicular movement will have a consolidated surface which should be kept in good repair. Where there will be evidence of airborne dust from the construction activities on the site, we will make inspection and assessment, and where necessary undertake ambient monitoring with the aim of identifying those process operations giving rise to the dust. Once the source of the emission is known, corrective action will be taken. We will give consideration to the siting of aggregate stockpiles, based upon such factor as the prevailing winds, proximity of site boundary and proximity of neighbours. Minimisation of drop height is very important in stockpiling to reduce wind whipping of particulates. When designing storage bays, internal walls separating storage bays will be at least ½ metre lower than external walls of the bays.

Management techniques for effective control of emissions will include; proper management, supervision and training for process operations; proper use of equipment; effective preventative maintenance on all plant and equipment concerned with the control of emissions to the air; we will also ensure that spares and consumables

are available at short notice in order to rectify breakdowns rapidly. This is important with respect to arrestment plant and other necessary environmental controls. It is useful to have an audited list of essential items

Rodent Control

Necessary measures are required to proper control of rodents. 28 days prior to the work commencing a method statement will be submitted on how the destruction/dispersion of rodents will be controlled during demolition works. At all times site will be kept free from rats and mice.

Confined Spaces

The Site Wide Risk Assessment indicates a low possibility of the potential for confined spaces. Our project manager will be responsible for identifying any areas that may match the criteria for a confined space and any work processes that may introduce a substance or material that may alter the risk of entry into these areas. In such an instance a specific system of work is to be drawn up covering any activity within the potential confined space, and a Permit to Enter will be issued prior to allowing entry.

Excavations and Underground Services

Not applicable. We will continue to assess existing underground services in and around the site. Existing excavations/basement voids will be provided with edge protection where necessary.

Electricity on site

The temporary electrical scheme will be developed by an approved contractor to provide the power needed for the equipment and lighting required for safe access, accommodation, welfare and for the production of high quality work. The scheme will allow for subsequent adaptations and extensions and the safety of the installation will be checked at regular intervals.

The site supply will be taken from the localised DB board and will be stepped down to 110V transformers for the primary site supply. The appointed electrical contractor will provide the Project Manager with a temporary electrical installation certificate for any temporary site supply. This will be kept in the site H&S file.

110v or battery powered tools will be used at all times. 240v power is to be avoided by site workers, however a 240V supply will be fed to the canteen for welfare appliances and a Battery Charging station, protected back at the mains board with an RCD. Users of electrical tools are expected to ensure that their equipment is safe and adequately tested. Battery powered tools are preferred, particularly in areas where leads would otherwise cause a tripping hazard.

Overlap with the Clients Undertakings

In the initial phase of the works was carried out prior to this element of works beginning. Ernest Park has been working closely with our client and the Design team to establish clear interface requirements.

Working at Height Strategy

These exact requirements for working at height on this project are to be identified as part of the contractors RAMS and subject to approval by the Ernest Park Project Manager. We describe a general overview of the key elements,

- Site external scaffold will be subject to a design.
- At no time will any person employed on the project work over an unprotected fall.
- Fragile Materials roof materials will be identified and protected/signed.
- All steelwork will be erected with hand railing incorporated so that those installing new floors will work within a zone that includes edge protection.
- Working platforms should be prioritised over ladder work.
- Shafts, risers and edges must be protected immediately on completion/formation

A more detailed strategy will be developed when the unknown condition elements are clarified and further design development is complete.

Safety Signs

Signs shall be displayed to warn of the dangers of entering construction sites and to advise all visitors to report to the site office. Other signs should be used to restrict the workforce's access to unauthorized areas and to identify emergency procedures, fire exits, site speed limits etc. We also have signs

Manual Handling

All loading and unloading involves lifting and handling to some extent. Although mechanical equipment should be used whenever practicable, much of the work will inevitably continue to be carried out manually. The risk of injury can be greatly reduced by a knowledge and application of correct lifting and handling techniques.

Ernest Park expect our contractors, as part of their Method Statements and Risk Assessments to adequately address the requirements of the Manual Handling Regulations within their stated procedures and processes when working on this project. In general, we require contractors to:

- Avoid hazardous manual handling operations as far as is reasonably practicable through good design of traffic and delivery routes, getting materials as close to the point of use as possible.
- Plan and design site logistics to minimise the volume, frequency and exposure to manual handling operations through introduction of lifting equipment, modular systems such as palletising and adequate well positioned storage areas.
- We will ensure subcontractors make a suitable and sufficient assessment of any hazardous manual handling operation that cannot be avoided. Where none is made available they will use our format.
- Reduce the risk of injury from those operations so far as is reasonably practicable - with particular consideration being given to mechanical assistance. We will encourage subcontractors to allow for mechanical equipment in their tenders.
- Individual assessments will be made where required to assess the suitability of the person for the task.
- When the nature of the load or the environment dictates, personal protective equipment will be issued, and will be expected to be used by operatives.

7 Welfare Facilities and First Aid

Welfare arrangements including Office, Canteen, PPE Store/Drying Room and First Aid facilities will be provided by the Ernest Park located in no. 61 TCR existing office facilities. Toilet and Washing facilities will be provided and will be kept clean and tidy and subject to thorough inspection by our Welfare Officer throughout the construction phase.

We will continue to monitor the number of staff and contractors on site and welfare provision will be developed as necessary accommodate the increase in attendance.

The Ernest Park Project Manager is trained in First Aid will be the nominated First Aider for this site. In the event of unplanned or unforeseen absences from site by the Project Manager, the Operations Manager will be responsible for ensuring that a suitable stand-in First Aider is on site to ensure that First Aid cover is maintained throughout the construction phase. This stand in First Aider will be as a minimum First Aid trained to “appointed person” level in accordance with the First Aid at Work regulations. If there are more than 10 operatives on site during these times, the stand-in First Aider will be required to be fully First Aid Trained.

8 Statutory Notices

The following Statutory notices will be displayed on site:

- **HSE Law Poster**
- **Certificate of Employers Liability Insurance**
- **F10 Notification**

And as part of the site specific Health and Safety File:

- **Construction Phase Plan**
- **Specific Method Statements and Risk Assessments**
- **Accident Book**

9 Inductions and Toolbox Talks

All operatives working on site will be subject to a site specific Induction provided by the Ernest Park Project manager. This will enable the manager to communicate any site-specific risks and the site rules. Information on Emergency Procedures will also be included in the induction and the operatives will be required to show they have read and understood the contents of their respective method statements and risk assessments associated with their activities. A shorter, more concise Induction will be provided for site visitors. Signage indicating the need for

inductions will be erected. All personnel entering the works will be required to sign in on a daily basis. The Ernest Park project manager is responsible for ensuring all persons on site are signed in and inducted and have read and understood the site rules.

Site and activity specific Toolbox talks will be carried out when required to ensure that any changes in site rules or emergency procedures are communicated to site operatives. Ernest Park utilise Toolbox talks as a management tool when issues arise from internal safety inspections or from independent safety inspections undertaken by our external safety consultant. Sub-Contractors will be responsible for undertaking site specific toolbox talks on changes to methodology or specific risks arising throughout the duration of their works.

10 Site Rules

1. Everybody working on site must be inducted. Visitors need not be inducted if they are accompanied at all times by a site representative who has been inducted.

2. The site speed limit is 10 MPH. This must be strictly observed. Surrounding roads are limited 30mph.

3. Permit to work procedures must be strictly followed.

4. Emergency procedures must be strictly followed and coordinated with our neighbouring retail businesses.

5. Crane coordinators instructions and associated lifting plans must be strictly followed.

6. All workers must wear safety helmets, steel toecap boots and hi-vis vest or jacket as a minimum at all times unless authorised otherwise by the safety adviser. Other personal protective equipment identified by risk assessment must be provided by the employer and worn.

7. Burning of materials on site is not allowed.

8. Consumption of or being under the influence of alcohol or illegal drugs on site is strictly prohibited. We may carry out random alcohol and drug testing to enforce this policy, and you will be dismissed from site if you test positive at any time.

9. Smoking is not allowed inside any building or on any scaffold. We also require that mobile phones are only used when it is safe to do so, do not use phones close to operational machinery or where you are put at risk by the distraction they create. Use designated areas only and utilise break times.

10. Food may only be consumed within the designated welfare area.

11. Horseplay, whistling and calling to the public is not permitted. The playing of radios is not permitted.

12. No unauthorized person may interfere with or remove any scaffold tie, guardrail or other safety system.

13. All persons working on the site must report any hazardous conditions immediately to their supervisor. No supervisor may put people to work where they are at risk, for example, guardrail missing.

14. Parking is only allowed in designated areas, employee's vehicles are not to obstruct site access.

15. Equipment should only be operated, maintained and repaired by competent persons.

16. Incorrect or faulty tools must not be used and immediately reported to the management.

17. Work only in areas where you are authorised.

18. Unauthorized persons identified on the site should be escorted to the site office.

19. The site management reserves the right to refuse entry or to evict any person for any reason that is considered to be against the interest of health, safety, welfare or environmental considerations.

11 Emergency Procedures

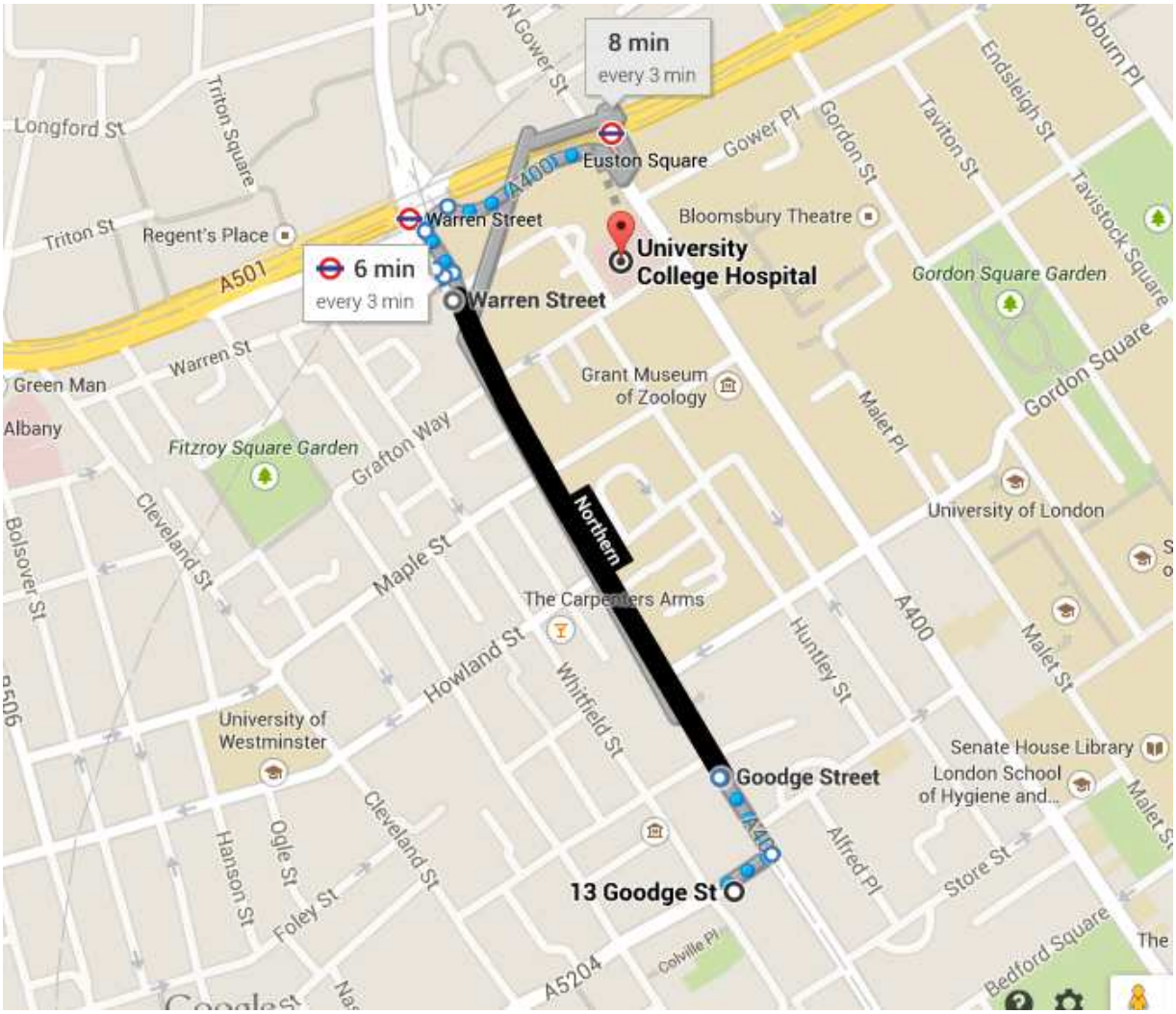
The closest known Accident and Emergency Hospital to the site is:

University College Hospital

Tel: 020 3456 7890

Address: University College Hospital, 235 Euston Road, London, NW1 2BU

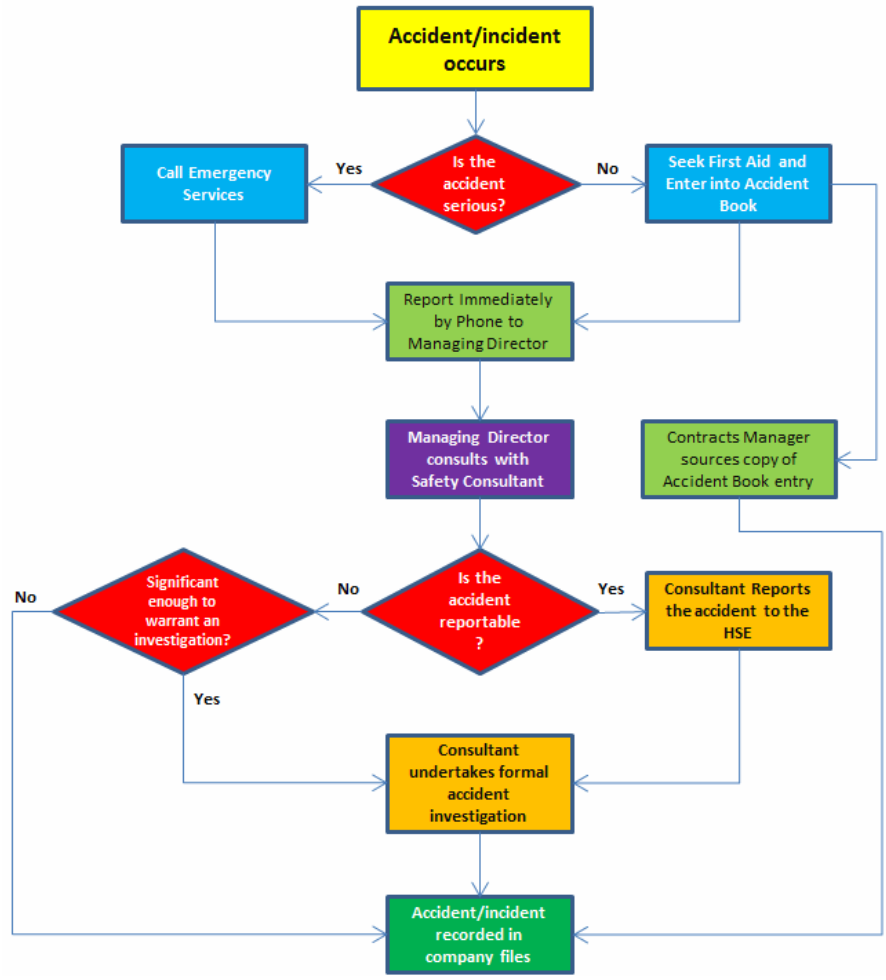
Website: http://www.uclh.nhs.uk



Accident Reporting Procedure (RIDDOR)

All operatives, either directly employed by Ernest Park or Sub-Contractor or Agency operatives on site have a role to play in reporting accidents efficiently and effectively and the company will actively promote the reporting of accidents that occur in the workplace. The site induction procedure will cover the requirement to report all accidents or near miss incidents to the Ernest Park Project Manager by the fastest possible means.

All accidents, be it in the office or on a site, however minor, will be entered into the accident book. It is important that if an accident occurs on site, then it is reported to the project manager who can ensure that the accident is recorded. It is then the duty of the project manager to inform the Operations Manager of the accident and return the form back to head office for further consideration/investigation where necessary.



Accident and Incident Investigation

Ernest Park recognise that any procedures put in place to help prevent accidents from occurring, are beneficial for the health and safety of all employees, contractors and visitors.

In order to learn more from accidents that take place the company will investigate all accidents and near miss incidents involving persons and property other than where the injury is deemed to be minor. The results from an investigation will hopefully prevent further accidents, and may well instigate further procedures to help prevent them. Each circumstance will be different however; accident investigations will usually lead to a change in the risk assessment or even policy arrangements. Investigations will include employee interviews, statements and site visits. Our safety consultant may be called in to assist in this and will investigate all RIDDOR reportable accidents and incidents.

Accident Records

Records of accidents and incidents will be held in accordance with Ernest Park Contractors Health and Safety Policy.

Fire Emergency Procedure

In the event of a fire on site, the alarm is to be raised by engaging the nearest fire alarm/bell on a fire point located at positions marked on the Site Layout Drawing located in appendix 1. The person locating the fire must then report the fire immediately to the Project Manager by the fastest possible means. The Project Manager will then call 999 and alert the emergency services. If the fire is small and can be controlled, fire extinguishing media will be deployed to attempt to extinguish the fire. If the person who identified the fire is not confident on his ability or the fire is of a size that would put persons at risk, the person who located the fire should immediately evacuate to the local muster point.

Upon hearing the fire alarm, all operatives will make safe all machinery and power tools then calmly evacuate the site to the site muster point. Our Project Manager will take a copy of the site sign in register and undertake a roll

call to ensure the complete evacuation of site to relay to the emergency services. No re-occupation of the site is to take place until the all clear has been given by the Fire Warden or the Emergency Services.

Asbestos Incident Procedure

In the unlikely event of an Asbestos incident on site, either the uncovering of a suspected ACM that has not been previously identified during the construction works, or any other incident involving ACM that may have been disturbed, the following emergency procedure will be put into place;

- Works in the area will stop immediately and the area will be sealed off.
- A sample will be taken of the material by a licensed contractor to confirm its content and from this a risk assessment will be undertaken with assistance from our safety consultants to determine the most appropriate course of action.
- If the material has been disturbed with the potential to release fibre into the air, any operative that may have been exposed will proceed to the welfare arrangements and decontaminate themselves, including the removing of clothing. The welfare facilities will need to be sealed and decontaminated by a licensed contractor.
- The area where the suspected incident occurred will be sealed and all accesses taped up with Duct tape and signed with Asbestos warning signage.
- A licensed contractor will be employed to undertake an air test of the suspected area and provide a certificate of reassurance.
- If the air test comes back as positive, or it is confirmed by other means that the material contains asbestos, a sample of the material will be taken for analysis and the licensed contractor will be instructed to undertake decontamination of the area as soon as possible under controlled conditions.
- The area will only be re-occupied upon receipt of a certificate of reassurance indicating that the levels within the area are >0.01 f/ml.
- Our Health and Safety Consultants will be consulted to advice on the need to notify the incident as a Dangerous Occurrence under RIDDOR.

12 Continuing Liaison

Communication and liaison between Client and Others

Ernest Park will ensure that all those who involved with the project are issued promptly with the information needed to carry out their work safely, without risk to their health and to ensure those affected by the construction work are not placed at risk.

Interaction with the community

Due to the project's location within Central London we consider it of the upmost importance to foster good relations with the surrounding businesses and residents. We intend to do this by;

- Liaising with local resident / business group representatives prior to commencing on site.
- Displaying a Contact Board with all required information. The board will consist of: our company's name with address and person to whom correspondence should be addressed, name of the site manager, month and year of completion of works, names and telephone numbers of staff who can take immediate action, so that contact can be made at any time.
- Our strategy post internal engagement with our neighbours will be to have monthly meeting with residents if required, regular updates on programme and progress will be posted on the site hoarding.
- Dropping leaflets to the local residents on a monthly basis.
- Notifying occupiers who may be affected by noise from works of the nature of the works, a contact name, telephone number (including that to be used outside normal working hours), and address to which any enquiries should be directed. Such notification will take place, where possible within, 2 weeks but, in any event, at least a week prior to the works commencing.
- Implementing a complain procedure that will be reviewed on a monthly basis with details of complainant and action taken to be a focus of the resident group meetings. Should noise/vibration/dust complaints arise, these complaints will be recorded in a complaint's register and make available to the Local Authority, if requested. The complaint register will provide information on day, time, details of complaint, details of monitoring carried out and any additional mitigation works. Should complaints be received concerning works/activities, then all works/activities (other than those in progress) being the cause of complaint will cease until such time as further agreement to work is negotiated.
- Ensuring that a staffed telephone enquiry line (0203 637 1296) is maintained at all times when site works are in progress to deal with enquiries and complaints from the local community. The telephone number (and any changes to it) will be publicised widely in the local community affected by the works. It will also be notified to the Noise and Licensing Enforcement Team.
- Taking Email addresses from local residents interested so we can provide them with a monthly mailshot update to progress.
- Publishing regular newsletters, in conjunction with our client *Goodge Street (Tottenham Court Road) LLP* and LB Camden Environmental Health Department, giving information on the progress of the works, future planned activities and notice of any likely disruption to roads and pedestrian access.
- Registering the project with the Considerate Constructors Scheme, and make all personnel working on site fully aware of its recommendations for behaviour. All contractors working on site will be required to follow "Guide for Contractors Working in Camden" also referred to as "Camden's Considerate Contractor's Manual".
- Making a particular point to meet with the management of the local businesses to explain the nature of

the works and agree times of vehicle movements to suit their businesses.

- Operating hours and breaking times will be strictly observed in accordance with the section 61 notice agreements with London Borough of Camden. This will be on a "2 hour on 2 hour off" basis or other hours agreed with the neighbours.

Progress and Health and Safety Meetings

Ernest Park will arrange monthly meetings to include a review of the project progress and the on-going health and safety management of the project and cover actions from previous meetings, health and safety planning for future works and the required liaison between all relevant parties and report on the health and safety plans and performance. The Client and the CDM-C will be invited to attend these meetings.

Design Meetings

This project is essentially a D&B contract therefore the requirement for Design meetings is likely to be regular at least until the full scope of works is locked down. Therefore monthly or bi-monthly design meetings will be arranged by Ernest Park Contractors and invites will be extended to all relevant parties, and in particular the Client and CDM-C will be invited. A suitable agenda for the design meetings will be formulated at the first of these meetings and amended to this construction phase plan.

Sub-Contractor Meetings

Meetings will be organised with Sub-Contractors as and when required throughout the construction phase to discuss any issues or matters arising with that contractor's performance on site and will include discussion on the Health and Safety Performance and review of the scope and content of the RAMS for their associated tasks.

Meeting Records

All meetings will be recorded. The minutes will be distributed to all parties promptly by the Ernest Park project manager. Records of the minutes will be kept on site.

Liaison with adjacent undertakings

Ernest Park Contractors project manager will be responsible for liaison with parties in adjacent undertakings to ensure standard of health and safety are maintain and to organise any foreseen overlap between the undertaking of this project and adjacent sites.

Liaison with the CDM-C

Ernest Park Contractors shall liaise with the CDM Co-ordinator, prior to commencement of construction and during the construction phase, and undertake to provide the following:-

- To produce a reasonably developed Construction Phase Plan prior to commencement of work on site.
- To liaise with the CDM Co-ordinator on any design work carried out during the construction phase, including design by specialist contractors, and the implication on the Construction Phase Plan.
- To continue to develop the Plan during the construction phase taking account of any major variations in design or changes in legislation.
- To inform the Client and CDM Co-ordinator, immediately any serious accident and/or any reportable incident occurs, together with details of the action taken to prevent any reoccurrence.
- To record at site meetings details of accidents, visits by the HSE and/or the results of inspections by our consultant Safety Advisor.

Monitoring Procedures

The Ernest Park project manager will carry out day to day monitoring of site activities. He will undertake a Weekly Site Mangers Safety Inspection and any results found will be recorded on the appropriate report and contained within the site safety folder. The Operations manager will visit the site on a regular basis and assist the Ernest Park project manager in identifying any issues that may arise with the design, the ongoing build and the ongoing construction phase. The Operations manager will be responsible for directing the Ernest Park project manager in all elements of the project.

In addition, our external safety consultant, MSA Safety Ltd, will visit the site on a fortnightly basis to carry out an independent health and safety inspection. A report will be provided within 24 hours of the inspection. These reports can be found within the safety folder and will be made available to the Client/CDM-C on request.

13 Health and Safety File

The Health and Safety File for the Project will be in accordance with requirements of the Construction (Design and Management) Regulations 2007 – Regulation 20(1)(c) and Regulation (2)(e). The file is to be prepared in the format given as part of the Pre-Construction Information as detailed within Appendix C of the PCI.

The Health and Safety File is be compiled by the CDM Co-ordinator. The Principal Contractor is to arrange the provision of all necessary information, including design and construction information for compilation of the File in a timely fashion to allow the file handover to take place at the completion of construction.

Ernest Park Contractors is to provide the CDM-C with details of start and finish dates of relevant sections of the works to enable the CDM-C to monitor the provision of information for the File. We shall arrange for all information necessary for the compilation of the Health and Safety File, available to Ernest Park Contractors or held by other contractors, to be passed to the CDMC, collated and in the prescribed format, as soon as the information becomes available or at appropriate milestones during the construction period.

Information provided for the File is to be:

- focused on health and safety data, information and considerations
- specifically prepared for the File and to record the as-built/as-installed situation
- prepared in specific packages in accordance with defined contribution requirements

The Health and Safety file is to be provided as one Hard copy and two electronic copies on CD.

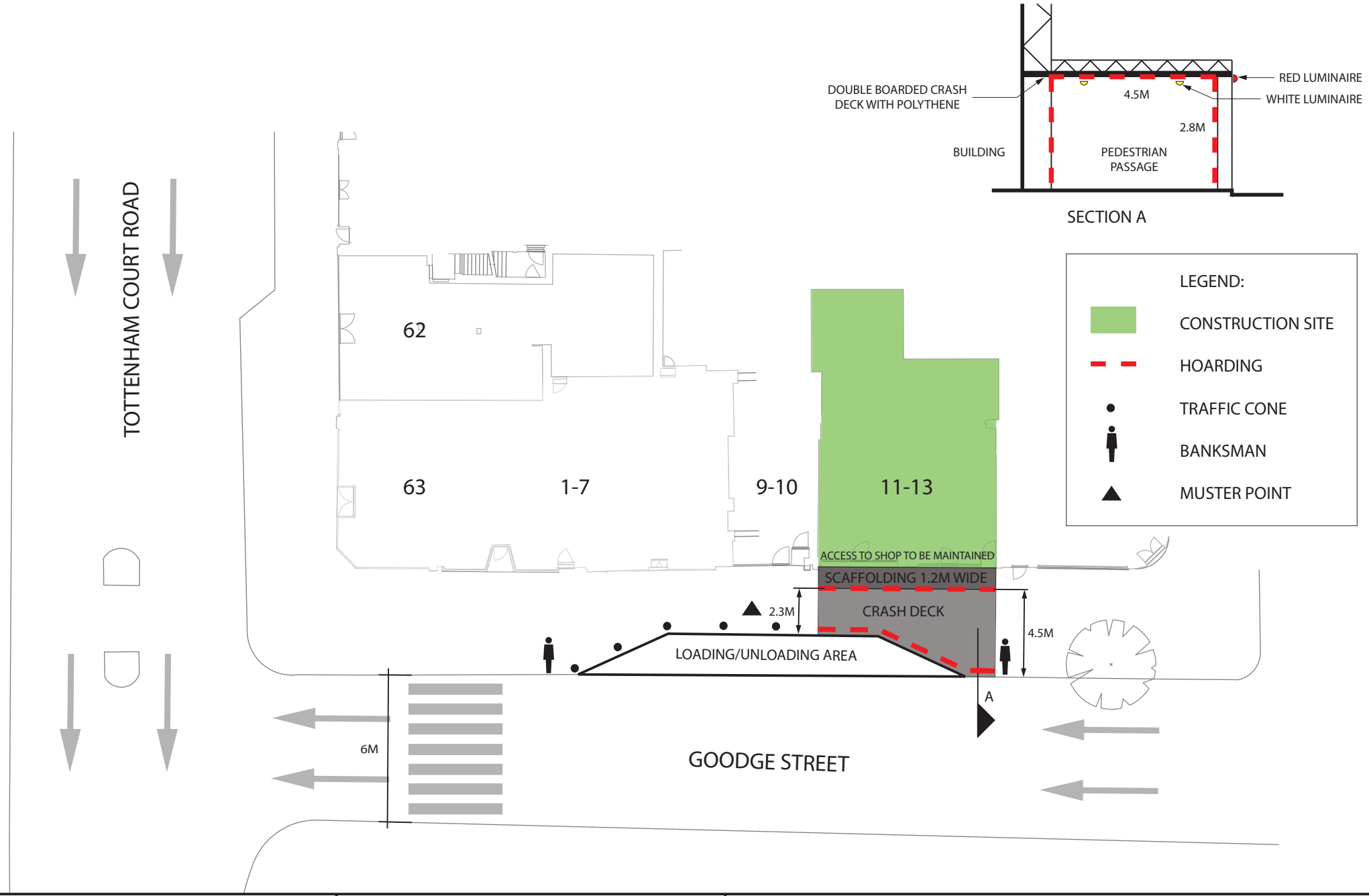
14 Storage of Information

All information and documentation on site will be stored within the site office. The office will be kept secure during the construction phase. Persons requiring access to information stored on site will be supervised by the Ernest Park Project Manager.

No personal or sensitive information will be stored on site. Any personal or sensitive information (for example medical declarations from operatives made during the induction process, accident book entries) will be removed from the site folders and sent back to the Ernest Park head office where they will be stored securely. Interested parties are required to contact the operations manager for access to this information.

Appendix 1:

Site Location Plan



ERNEST PARK

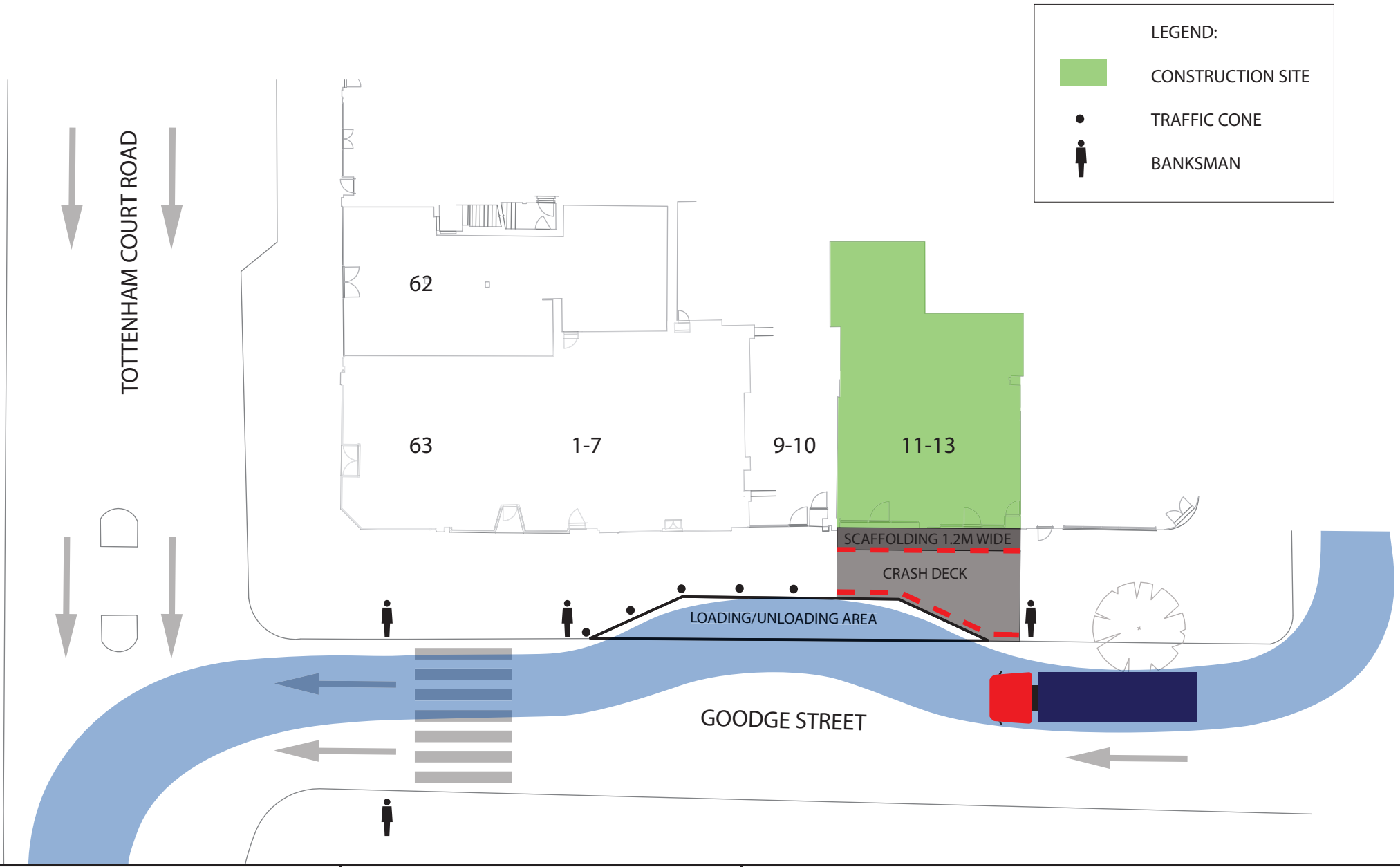
Ernest Park
70 St Mary Axe
London
EC3A 8BE

11-13 Goodge Street

CONSTRUCTION SITE LOCATION PLAN

Appendix 2:

Traffic Management Drawing



ERNEST PARK

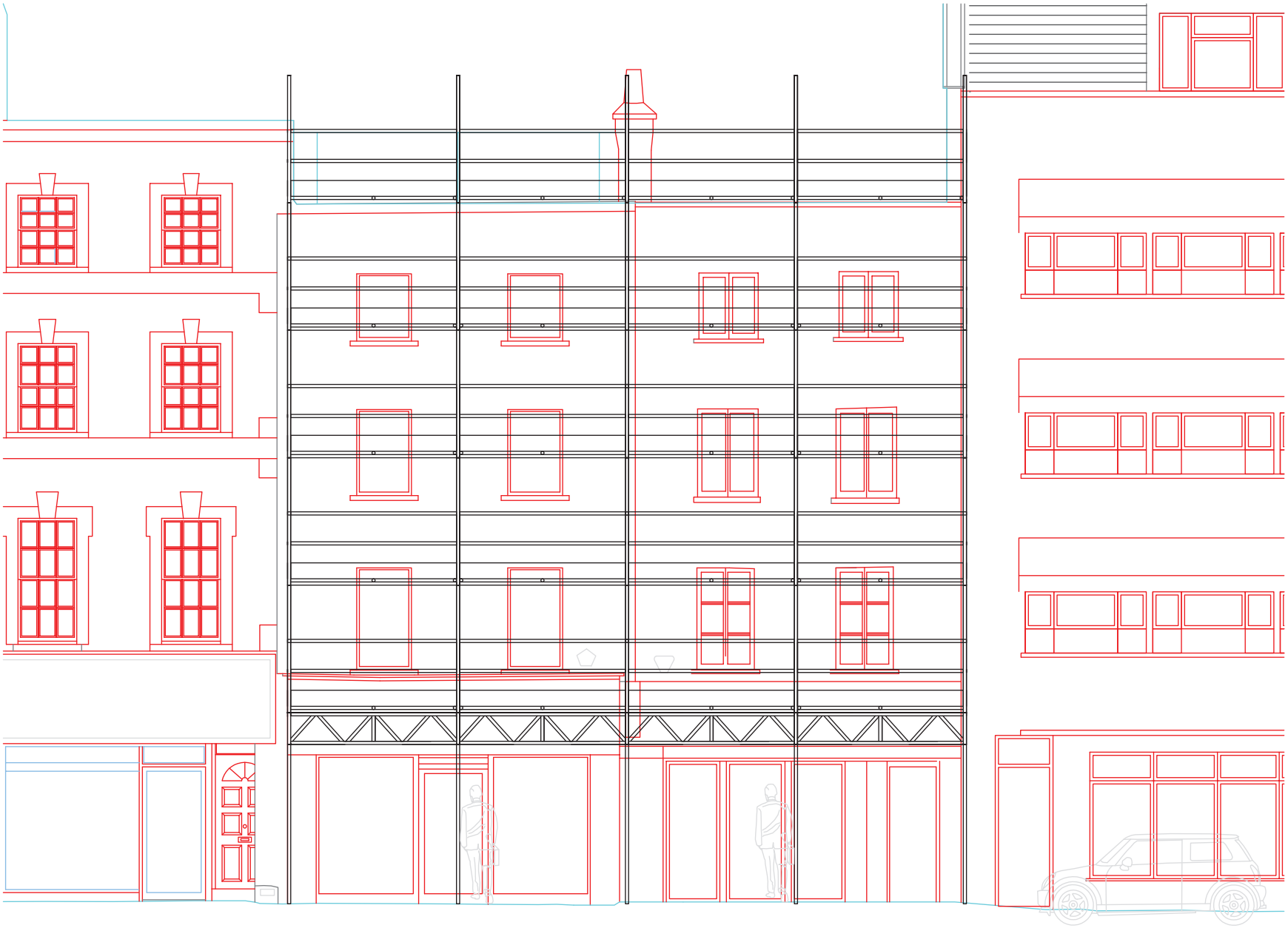
Ernest Park
70 St Mary Axe
London
EC3A 8BE

11-13 Goodge Street

SWEPT PATH TRAFFIC ROUTE

Appendix 3:

Scaffolding Design



9 Goodge St

11 Goodge St

13 Goodge St

Appendix 4:

Site Wide Risk Assessment

SITE WIDE RISK ASSESSEMENT

ERNEST PARK

#	Hazard	Persons Affected	L	S	R	Control Measures	Site Specific	L	S	R
1	Deliveries, Vehicle movements, site congestion, Pedestrian Vehicle routes.	**Employees** ☒ **Sub-C** ☒ **Public** ☒ **Other** ☐	M	H	H	• Access to the site via Goodge Street into the vehicle holding area as described within the site plan. • Vehicular & Pedestrian segregation is to be provided. • Pedestrian routes should be clearly marked and explained during site inductions. They should also include crossing points with relevant signage. • Banksmen are to be utilised to control reversing operations, difficult manoeuvres and entering or exiting the site onto a public highway. All reversing will be under the control of a Banksman at all times. • There is no requirement for vehicles to cross the pavement. • Audio visual reversing alarms as well as mirrors and CCTV are to be employed whenever available. • Speed of vehicles is to be restricted to 10MPH and relevant signage in place.		L	M	L
2	Asbestos	**Employees** ☒ **Sub-C** ☐ **Public** ☐ **Other** ☐	-	-	-	• Information to be provided by Client prior to start. • We do not anticipate any ACMs within the project.		-	-	-
3	Existing Hazardous Materials	**Employees** ☒ **Sub-C** ☐ **Public** ☐ **Other** ☐	M	M	M	. • Undertake suitable and sufficient surveys of the site to identify any Hazardous Materials that may be present, using the latest available technology. • Initial condition survey to determine the potential for abandoned Needlesticks within the site boundary.		L	L	L
4	Structural Form, Fragile Surfaces	**Employees** ☒ **Sub-C** ☒ **Public** ☐ **Other** ☐				• Undertake condition and dilapidation survey to examine if/how any proposed alterations or adaptions to the existing structure may affect structural integrity. • Identify and mark any known or located fragile surfaces. • Ensure sub-contractors Safe Systems of Work take account of these surveys findings. • Wherever possible works to the existing roof are to be undertaken from below using Mobile Elevated Work Platforms (MEWPs). • If access to any part of the roof is to be required this is to be undertaken under a specific system of work and agreed/approved with the project manager before access is allowed.				
5	Fire or Explosion	**Employees** ☒ **Sub-C** ☒ **Public** ☒ **Other** ☐				• Fire Precautions, detection, alarm and emergency procedure to be agreed with the CDM-C and identified within the Construction Phase Plan. • Undertake a construction phase Fire Risk Assessment upon occupation of the site. • All hotworks or other ignition sources to be controlled under a Hotwork Permit Condition. • No Smoking on Site except in designated areas.				

SITE WIDE RISK ASSESSEMENT

ERNEST PARK

#	Hazard	Persons Affected	L	S	R	Control Measures	Site Specific	L	S	R
6	Continuity of Fire Barriers	**Employees** ☒ **Sub-C** ☒ **Public** ☒ **Other** ☐				• Undertake condition and dilapidation survey to examine if/how any proposed alterations or adaptions to the existing structure may affect continuity of existing fire barriers. • Any damage to any fire seal or barrier located during the construction works to be identified and bought to the attention of the Project manager as soon as practical.				
7	Unauthorised Entry to Site	**Employees** ☐ **Sub-C** ☐ **Public** ☒ **Other** ☐	M	M	M	• Display construction site hazards and no entry signage. • Display management contact details on site perimeter with instructions to call if a suspected unauthorised access is observed. • Thoroughly check all accessible area of the site each morning for signs of trespass. • Remove and secure ladders at the end of each working day. • Prevent access to incomplete structures. • All flammable, harmful and hazardous materials are to be secured in a fire proof lockable container. • Ensure that all plant is rendered inoperable at the end of each shift, this may include the removal of batteries and the fitting the of vandal guards. • Ensure that all excavations are secured by double clipped anti-climb heras fencing at the end of each day. • Ensure all site doors and windows are secured at the end of each day • Ensure site gates are secure at the end of each day		L	L	L
8	Noise	**Employees** ☒ **Sub-C** ☒ **Public** ☐ **Other** ☐	M	M	M	• The project manager or sub-contract supervisor should ensure that information on the noise level of any plant which it is intended to hire or purchase is obtained and taken into account before hiring or purchase • If this information is unavailable, the Site Supervisor should contact the Health and Safety Consultant who can carry out a noise survey upon request. • Consider if quieter plant and equipment is available; • Screen the work area to deflect the noise path; • Limit the time spent working on or near noisy operations; • Wearing suitable hearing protection.		L	M	L
9	Working at Height	**Employees** ☒ **Sub-C** ☒ **Public** ☐ **Other** ☐	M	H	M	• All equipment used to work at height to be inspected by a competent Person on a weekly basis and records kept within the Inspection register provided as part of the site safety folder. • Roof access on construction to be undertaken with netting installed and certified by a competent contractor and certified before use. Roof to have perimeter handrail edge protection installed. • We expect the Contractor installing the roof to include a rescue plan in the event of a fall into the suspension equipment as part of their RAMS documentation. • External scaffolding to be erected around the site including fan protection to footpath below and crash decking gantry over the public footpath below the crane slew radius.		L	M	L

SITE WIDE RISK ASSESSEMENT

ERNEST PARK

#	Hazard	Persons Affected	L	S	R	Control Measures	Site Specific	L	S	R
10	Dust	**Employees** ☒ **Sub-C** ☒ **Public** ☒ **Other** ☐	M	M	M	• Dust suppression measures must to be employed for all cutting operations. Dust suppression can be by Water (from a pressurised bottle or mains supply). Local exhaust ventilation • Dust suppression systems are to be regularly inspected and any findings reported straight away • Ejection of dust from site expected to be limited. Monoflex external scaffold to provide additional protection. • All Operatives are to undergo dust mask face fitting during the initial individual selection of dust masks and a fit test certificate is to be issued		L	L	L
11	Slips and Trips	**Employees** ☒ **Sub-C** ☐ **Public** ☐ **Other** ☐	M	M	M	• Work areas to be properly organised and kept in a good state of housekeeping. • Storage areas to be properly organised. • Walkways to be kept clear of materials and waste at all times with particular attention to designated pedestrian routes. • P/C to provide background safety lighting in periods of darkness, including walkways and access routes.		L	L	L
12	Confined Spaces	**Employees** ☒ **Sub-C** ☐ **Public** ☐ **Other** ☐	L	H	M	• None expected.		L	L	L
13	Existing Services	**Employees** ☒ **Sub-C** ☐ **Public** ☐ **Other** ☐	M	M	M	• Information drawings regarding the known location of existing services are not available. • Electrical contractor to carry out a full condition survey of the site and report any issues/hazards that may arise from said for further planning. • The Project manager will be responsible for ensuring all services are marked out physically on site.		L	M	L
14	Luffing Jib tower crane	**Employees** ☒ **Sub-C** ☐ **Public** ☐ **Other** ☐				• Erection to be via contract lift • Operation provided by contractor. • Thorough examination certification to be held on site and updated annually. • Weekly LOLER inspections to be maintained.				
		Employees ☒ **Sub-C** ☐				•				

SITE WIDE RISK ASSESSEMENT

ERNEST PARK

		Public ☐ **Other** ☐								
		Employees ☒ **Sub-C** ☐ **Public** ☐ **Other** ☐				•				
		Employees ☒ **Sub-C** ☐ **Public** ☐ **Other** ☐				•				

L = Likelihood before control (High/Med/Low) **S = Severity** before Control (High/Med/Low) **Risk = Risk** before Control (High/Med/Low) **Residual Risk =** After Control (should be Low) **Site Specific Provisions =** Use to ensure Risk Assessment is specific to that work place.

Appendix 5:

Hann Tucker's Noise Survey

11-13 Goodge Street
London

ENVIRONMENTAL NOISE SURVEY
AND EXTERNAL BUILDING FABRIC REPORT
REPORT18919/EBF1

For:

Goodge Street (Tottenham Court Road) LLP
C/o Dukelease Properties
4th Floor
23 Old Bond Street
London
W1S 4PZ

12 February 2013

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APPENDIX A

1.0 INTRODUCTION

Planning permission is being submitted for re-development of 11-13 Goodge Street, London.

Hann Tucker Associates have therefore been commissioned to undertake an environmental noise survey at the site.

This report presents the survey methodology and findings. The survey data may be used as the basis for various acoustic assessment purposes.

2.0 OBJECTIVES

To propose the required internal acoustic design criteria which the levels of airborne road traffic noise intrusion should not exceed.

To undertake detailed acoustic analysis of the aforementioned environmental noise intrusion into the building through the external building fabric.

To subsequently prepare sound reduction performance specifications for the external building fabric in order to control airborne noise intrusion in line with the proposed internal acoustic design criteria.

3.0 SITE DESCRIPTION

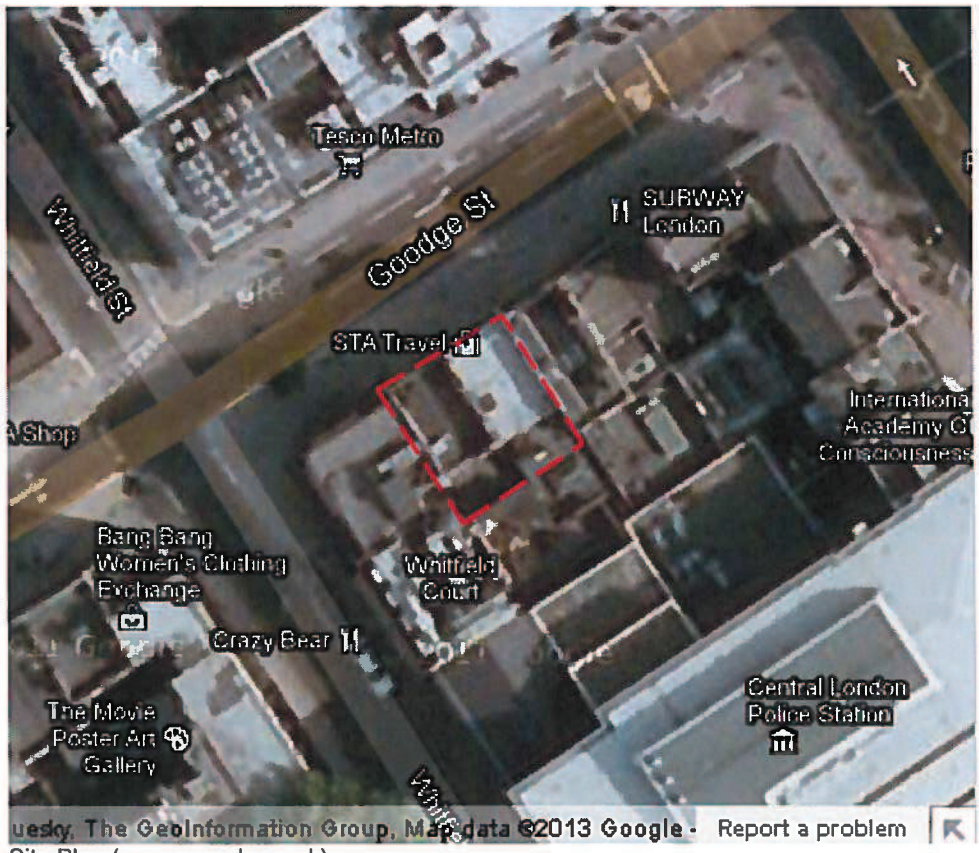
3.1 Location

The site is located on Goodge Street and falls within Camden Council's jurisdiction. See Location Map below.

Location Map (maps.google.co.uk)

3.2 Description

The site comprises of a four story building, with commercial space on the ground floor. The site is bound by Goodge Street to the north, and by commercial properties on all other sides. See Site Plan below.



Site Plan (maps.google.co.uk)

4.0 ACOUSTIC TERMINOLOGY

For an explanation of the acoustic terminology used in this report please refer to Appendix A enclosed.

5.0 METHODOLOGY

5.1 Procedure

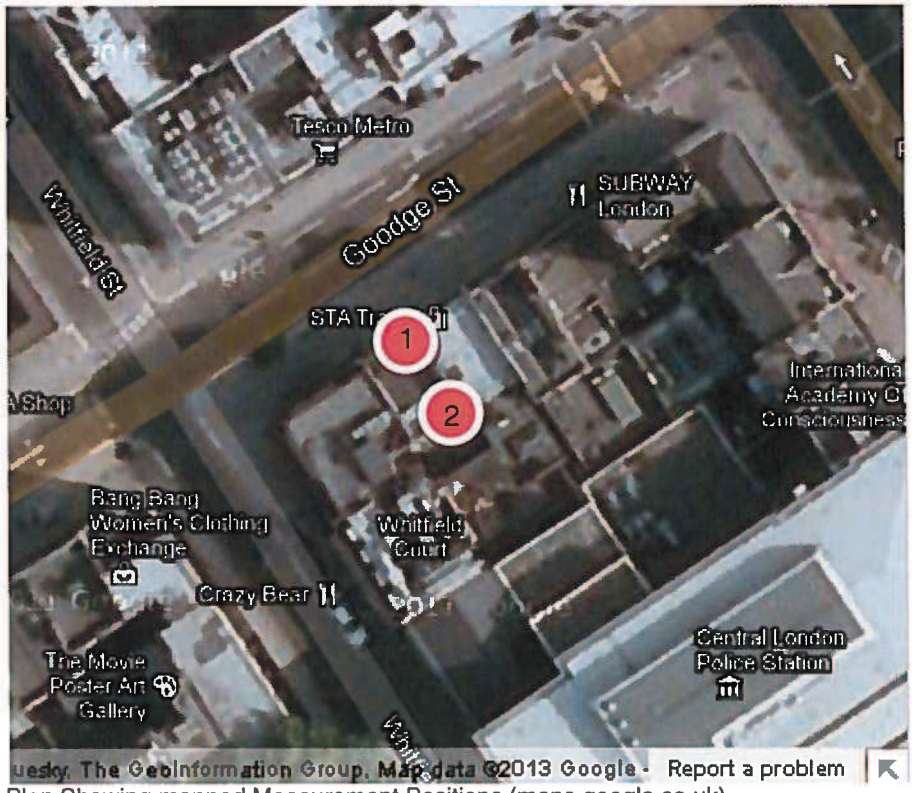
Fully unmanned environmental noise monitoring was undertaken from approximately 15:00 hours on Monday 04 February 2013 to 15:00 hours on Tuesday 05 February 2013.

Due to the nature of the survey, i.e. unmanned, it is not possible to accurately comment on the weather conditions throughout the entire survey period. However at the beginning and end of the survey period the wind conditions were calm. The sky was generally patchy cloud. We understand that generally throughout the survey period the weather conditions were similar to this.

Measurements were taken continuously of the A-weighted (dBA) L_{10}, L_{90}, L_{eq} and L_{max} sound pressure levels over 15 minute periods.

5.2 Measurement Positions

The noise level measurements were undertaken at 2 positions at the site. Position 1 was positioned out of a second floor window to the front of the property, Position 2 was positioned out of a second floor window to the rear. The measurement positions are shown on the plan below.



Plan Showing manned Measurement Positions (maps.google.co.uk)

5.3 Instrumentation

The instrumentation used during the survey is presented in the Table below:

Description	Manufacturer	Type	Serial Number	Latest Verification
Position 1 Type 1 Data Logging Sound Level Meter	Larson Davis	824	3803	LD calibration on 28/08/2012
Position 1 Type 1 ½" Condenser Microphone	Larson Davis	377B02	107427	LD calibration on 28/08/2012
Position 2 Type 1 Data Logging Sound Level Meter	Larson Davis	824	3802	LD calibration on 28/08/2012
Position 2 Type 1 ½" Condenser Microphone	PCB	377B02	107040	LD calibration on 28/08/2012
Type 1 Calibrator	Larson Davis	CAL200	3082	LD calibration on 02/03/2012

Each sound level meter, including the extension cables, were calibrated prior to and on completion of the surveys. No significant changes were found to have occurred.

6.0 RESULTS

The results have been plotted on Time History Graphs 18919/TH1 to 18919/TH4 enclosed presenting the 15 minute A-weighted (dBA) L_{10}, L_{90}, L_{eq} and L_{max} levels at each measurement position throughout the duration of the survey

The following table presents the typical worst case incident noise levels for each façade (with suitable corrections made for façade reflections).

Position/Façade		Sound Pressure Level (dB) @ Octave Band Centre Frequency (Hz)								dBA
		63	125	250	500	1k	2k	4k	8k	
Position 1 Front	Daytime L_{Aeq}	73	67	62	61	64	64	51	42	68
	Night-Time L_{Aeq}	68	61	57	57	57	55	47	40	61
	L_{Amax}	85	82	81	85	86	84	86	84	93
Position 2 Rear	Daytime L_{Aeq}	64	64	58	53	51	45	38	28	56
	Night-Time L_{Aeq}	59	57	54	51	50	45	41	35	54
	L_{Amax}	87	85	77	76	75	69	60	50	79

7.0 DISCUSSION OF NOISE CLIMATE

During the duration of the survey period the main source of noise was deemed to be road traffic from Tottenham Court Road and Goodge Street.

8.0 PLANT NOISE EMISSION CRITERIA

We understand that the requirements of Camden Council are as follows:

"Noise levels at a point 1 metre external to sensitive facades shall be at least 5dBA less than the existing background measurement (L_{A90}), expressed in dBA when all plant/equipment are in operation. Where it is anticipated that any plant/equipment will have a noise that has a distinguishable, discrete continuous note (whine, hiss, screech, hum) and/or if there are distinct impulses (bangs, clicks, clatters, thumps) special attention should be given to reducing the noise levels from that piece of plant/equipment at any sensitive façade to at least 10dBA below the L_{A90}, expressed in dBA."

As the proposed plant has been judged to contain no tonal element and on the basis of the above and the survey results we thus propose the following plant noise emission limits to be achieved at 1m from the façades of the nearest neighbouring buildings:

	Plant Noise Emission Criteria (dB re $2x10^{-5}$ Pa)	
	Daytime (07:00 – 23:00 hours)	Night-time (23:00 – 07:00 hours)
Position 1	44	43
Position 2	47	46

It should be noted that the above plant noise emission limits are subject to approval from Camden Council.

9.0 ACOUSTIC DESIGN CRITERIA

There are no criteria in the current Building Regulations concerning external noise intrusion. We also understand the Planning Authority have not imposed any noise criteria for external noise intrusion. Therefore, there are no statutory requirements for controlling external noise intrusion on this project.

Various reference documents including BS 8233: 1999 edition and WHO Community Noise Guidelines present acoustic criteria for residential premises, as outlined below. **These guidelines are entirely discretional.**

BS 8233: 1999 "Sound insulation and noise reduction for buildings"

British Standard 8233: 1999 "Sound insulation and noise reduction for buildings" recommends design criteria for internal ambient noise levels for dwellings providing a reasonable or good level of protection from external noise. It states that reasonable resting and sleeping conditions in living rooms and bedrooms can be achieved by the following target $L_{Aeq,T}$ internal noise levels:

Room Type	Design Range $L_{Aeq,T}$	
	Good	Reasonable
Living Rooms	30 dB	40 dB
Bedrooms	30 dB	35 dB

The Standard also states *"For a reasonable standard in bedrooms at night, individual noise events (measure with F time-weighting) should not normally exceed 45dB L_{Amax}".*

World Health Organisation (WHO)

The World Health Organisation document on "Guidelines for Community Noise" states the following guideline values for community noise in specific environments.

Specific Environment	Critical Health Effect(s)	L_{Aeq}	$L_{Amax,fast}$
Dwelling, indoors	Speech intelligibility and moderate annoyance, daytime and evening	35dB	-
Inside Bedrooms	Sleep disturbance, night-time	30dB	45dB

The document also states *"For a good sleep, it is believed that indoor sound pressure levels should not exceed approximately 45dBA L_{Amax} more than 10-15 times per night, (Vallet & Varnet 1991)."*

The above levels are however the subject of much controversy, as indicated by one of the feature articles in the January/February 2003 edition of the Institute of Acoustics' publication.

In our opinion the above criteria for bedrooms should thus be regarded as preferred, rather than mandatory maxima to be achieved in all cases.

Summary

On the basis of the above we propose the following internal acoustic design criteria which the levels of road traffic/train/aircraft/other nose intrusion should not exceed.

Room Type	Period	Criterion
Living Areas	Daytime (07:00-23:00 hours)	40dB $L_{Aeq,16hr}$
Bedrooms	Night Time (23:00-07:00 hours)	35dB $L_{Aeq,8hr}$

The above levels correspond to "reasonable" as defined in BS 8233. If these criteria are adopted as minimum standards for worst affected dwellings, the typical levels in typical flats will approach, and in many cases exceed, "good" as defined in BS 8233.

Note: If the worst case was designed to "good" this would lead to "over design" for other dwellings – which could be undesirable for various reasons (including cost and acoustic privacy between dwellings).

In addition it is proposed that L_{Amax} noise levels in bedrooms should not regularly exceed approximately 45dBA more than several times per hour between 23:00 and 07:00 hours.

10.0 ARCHITECTURAL ASSUMPTIONS

10.1 Room Finishes

In our calculations we have assumed bedrooms and living areas will have typical furnishings including beds, sofas, chairs etc.

10.2 Drawings

Our calculations have been based on the following drawings from Rolfe Judd.

4988/T(20)

11.0 SPECIFICATION FOR CLADDING

The composite acoustic performance required of any portion of the building envelope will depend on its location relative to the principal noise sources around the site and the nature of the spaces behind it (noise criteria, size, room finishes etc).

The levels of noise incident upon each façade of the building are different. Consequently, each façade therefore has its own unique sound insulation requirement. In our experience, however, it is not appropriate to prepare numerous performance specifications. In this instance, for the sake of simplicity, we have prepared a specification with 4 performance levels, which corresponds to appropriate notional glazing configurations.

The enclosed Acoustic Specification for Cladding to Residential Facades details our recommended minimum octave band sound reduction indices. In all cases, it is essential that the system is tested in accordance with BS EN ISO 10140-2:2010 and that the quoted minimum sound reduction specifications are met by the system as a whole, including frames, trickle ventilators etc as appropriate - not just the glass.

Where structural glass or non-vision spandrel panels are proposed, they should provide sound reduction performance at least equal to that required of the cladding in order to maintain the acoustic integrity of the building envelope.

In order to comply with Building Regulations (Part F), it is necessary to provide background ventilation to habitable rooms (living rooms and bedrooms). This property will be mechanically ventilated.

12.0 CONSTRUCTION GUIDANCE FOR GLAZING AND VENTILATORS

It is essential that prospective glazing system suppliers can demonstrate compliance with the acoustic performance detailed in our specification rather than simply offering a generic glazing configuration. However, we would suggest that the following configurations could typically be expected to provide the required levels of noise insulation.

Type	Façade	Example Glazing Configuration	Type of Trickle Vent
A	Front Living Room	10/16/6 Double Glazing	Hit and Miss Trickle Vent
B	Front Bedroom	10/16/6 Double Glazing	Passive attenuated in wall Vent
C	Rear Living Room	4/16/4 Double Glazing	Hit and Miss Trickle Vent
D	Rear Bedroom	4/16/4 Double Glazing	Hit and Miss Trickle Vent

In order to avoid weakness at junctions between cladding and party walls/floors we recommend:

- All party walls abut 2No. separate mullions
- All party floors abut 2No. separate transoms

13.0 CONCLUSIONS

A detailed 24 hour environmental noise survey has been undertaken in order to establish the currently prevailing environmental noise climate around the site.

Suitable environmental noise intrusion criteria have been proposed specified on the basis of BS 8233: 1999 and in accordance with the relevant planning condition.

Detailed acoustic analysis has been undertaken to assess the sound insulation requirements of the external cladding and ventilators..

This has enabled a sound reduction performance specification for the cladding and ventilators to be prepared, along with advice to be given on types of constructions we would typically expect to provide the required acoustic performance.

We would stress however, that the proposed cladding (including frames) must comply with the enclosed performance specifications.

Prepared by
David Ferdinand
Trainee Assistant Consultant
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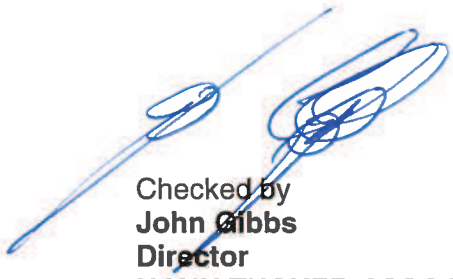

Checked by
John Gibbs
Director
HANN TUCKER ASSOCIATES

Appendix A

The acoustic terms used in this report are explained below:

dB : Decibel - Used as a measurement of sound pressure level. It is the logarithmic ratio of the noise being assessed to a standard reference level.

dBA : The human ear is more susceptible to mid-frequency noise than the high and low frequencies. To take account of this when measuring noise, the 'A' weighting scale is used so that the measured noise corresponds roughly to the overall level of noise that is discerned by the average human. It is also possible to calculate the 'A' weighted noise level by applying certain corrections to an un-weighted spectrum. The measured or calculated 'A' weighted noise level is known as the dBA level.

Because of being a logarithmic scale noise levels in dBA do not have a linear relationship to each other. For similar noises, a change in noise level of 10dBA represents a doubling or halving of subjective loudness. A change of 3dBA is just perceptible.

L_{10} & L_{90}: If a non-steady noise is to be described it is necessary to know both its level and the degree of fluctuation. The Ln indices are used for this purpose, and the term refers to the level exceeded for n% of the time, hence L_{10} is the level exceeded for 10% of the time and as such can be regarded as the 'average maximum level'. Similarly, L_{90} is the average minimum level and is often used to describe the background noise.

It is common practice to use the L_{10} index to describe traffic noise, as being a high average, it takes into account the increased annoyance that results from the non-steady nature of traffic noise.

L_{eq} : The concept of L_{eq} (equivalent continuous sound level) has up to recently been primarily used in assessing noise in industry but seems now to be finding use in defining many other types of noise, such as aircraft noise, environmental noise and construction noise.

L_{eq} is defined as a notional steady sound level which, over a stated period of time, would contain the same amount of acoustical energy as the actual, fluctuating sound measured over that period (e.g. 1 hour).

The use of digital technology in sound level meters now makes the measurement of L_{eq} very straightforward.

L_{max} : L_{max} is the maximum sound pressure level recorded over the period stated. L_{max} is sometimes used in assessing environmental noise where occasional loud noises occur, which may have little effect on the L_{eq} noise level.

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11-13 GOODGE STREET
LONDON

ACOUSTIC SPECIFICATION
FOR GLAZING TO RESIDENTIAL FACADES

SOUND REDUCTION PERFORMANCE

The complete glazing system shall achieve the following minimum sound reduction indices when tested in accordance with BS EN 10140-2:2010.

Type	Façade	Minimum Sound Reduction Index (dB) @ Octave Band Centre Frequency (Hz)				
		125	250	500	1k	2k
A	Front Living Room	26	27	34	40	38
B	Front Bedroom	26	27	34	40	38
C	Rear Living Room	24	20	25	34	37
D	Rear Bedroom	24	20	25	34	37

TEST DATA

Fully detailed test reports from independent acoustic test authorities shall be supplied. All test reports shall be in English or, a full English translation.

Test data should include the $^1/_3$ octave band results from 100Hz to 3150Hz inclusive, together with the corresponding octave band results from 125Hz to 4000Hz inclusive.

The test report shall be provided for test samples which are representation of the complete system for the relevant facades - including frames, joints, seals, spandrel panels and opening lights and trickle vents (as appropriate). The samples proposed should be approved by Hann Tucker Associates.

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11-13 GOODGE STREET
LONDON

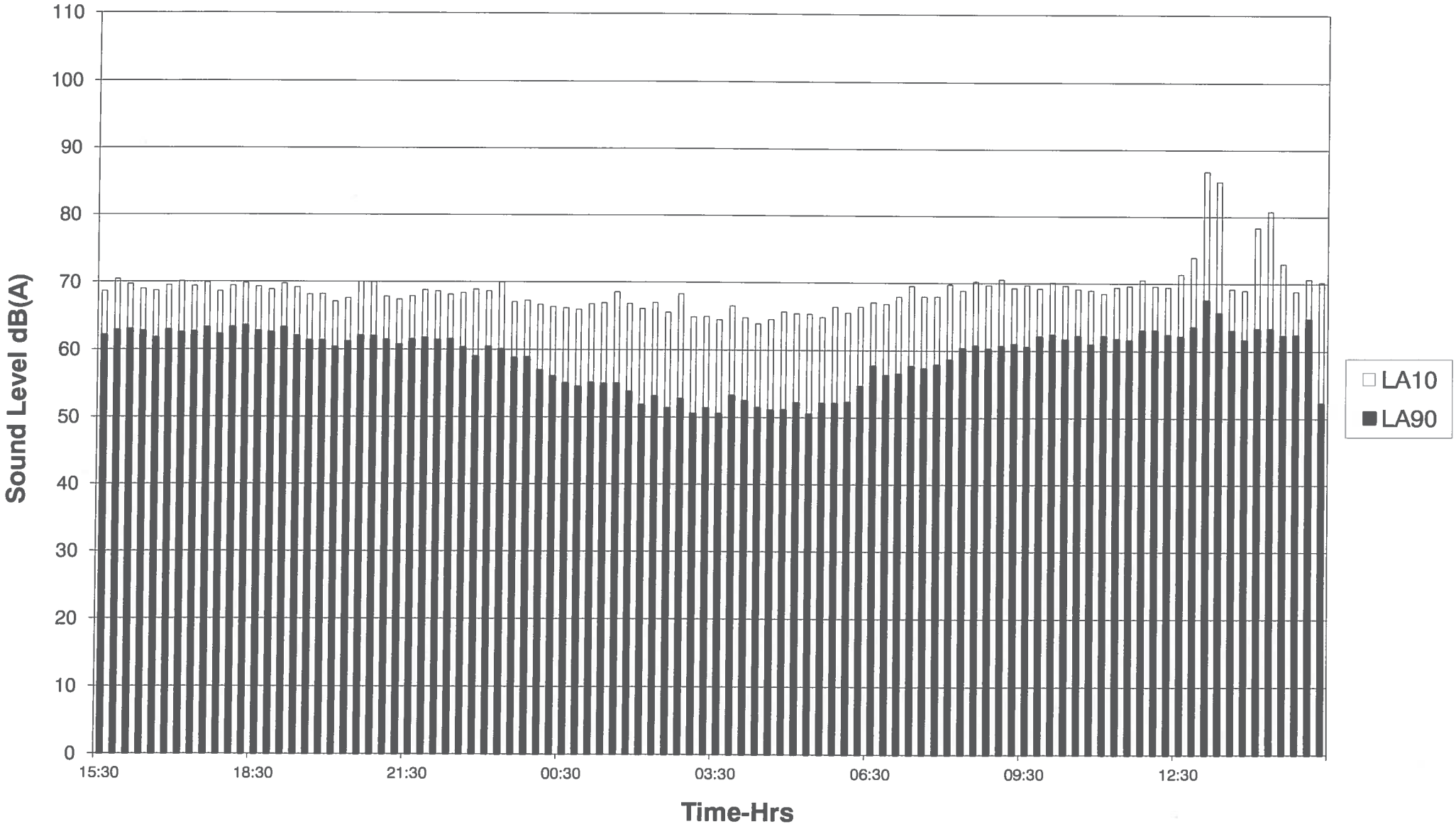
ACOUSTIC SPECIFICATION
FOR TRICKLE VENTILATORS

SOUND INSULATION: Ventilators shall be tested in accordance with BS EN 20140-10:1992. This will involve testing in 1/3 octaves from at least 100Hz to 2500Hz inclusive. These results, together with suitably converted octave band results from 125Hz to 2000Hz shall be provided for a ventilator unit which is representative of the proposed ventilator for the relevant façade. The samples proposed should be approved by Hann Tucker Associates.

The following element normalised level differences shall be achieved:

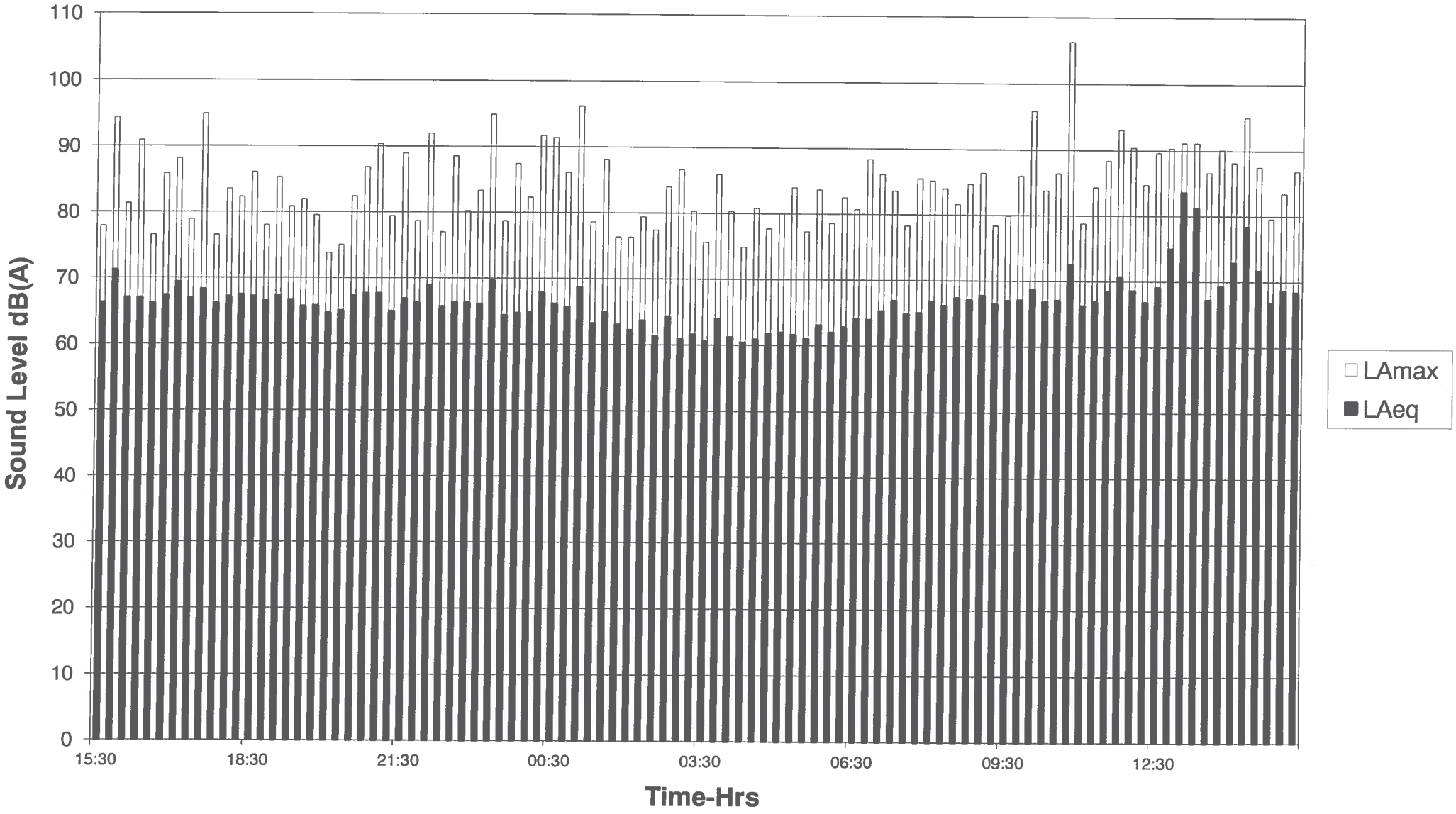
Type	Façade	$D_{n,e}$ Values (dB) Open Areas Corrected to 8000mm^2 at Octave Band Centre Frequency (Hz)				
		125	250	500	1k	2k
A	Front Living Room	31	36	31	38	28
B	Front Bedroom	39	40	40	46	61
C	Rear Living Room	31	36	31	38	28
D	Rear Bedroom	31	36	31	38	28

11-13 Goodge Street
Position 1
L_{A10} and L_{A90} Noise Levels
Monday 04/02/2013 - Tuesday 05/02/2013



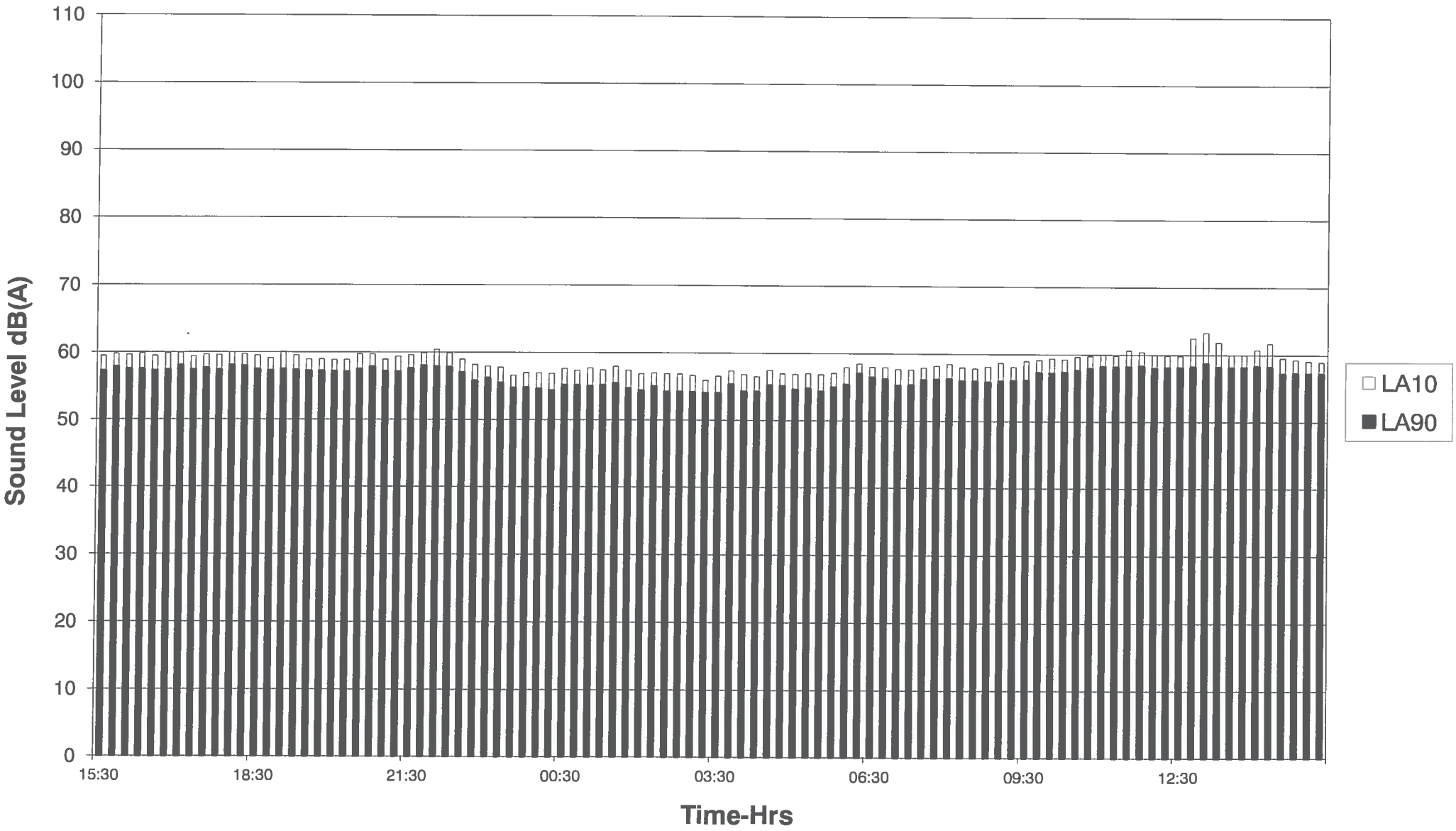
Time History Graph 18919/TH1

11-13 Goodge Street
Position 1
L_{Aeq} and L_{Amax} Noise Levels
Monday 04/02/2013 - Tuesday 05/02/2013



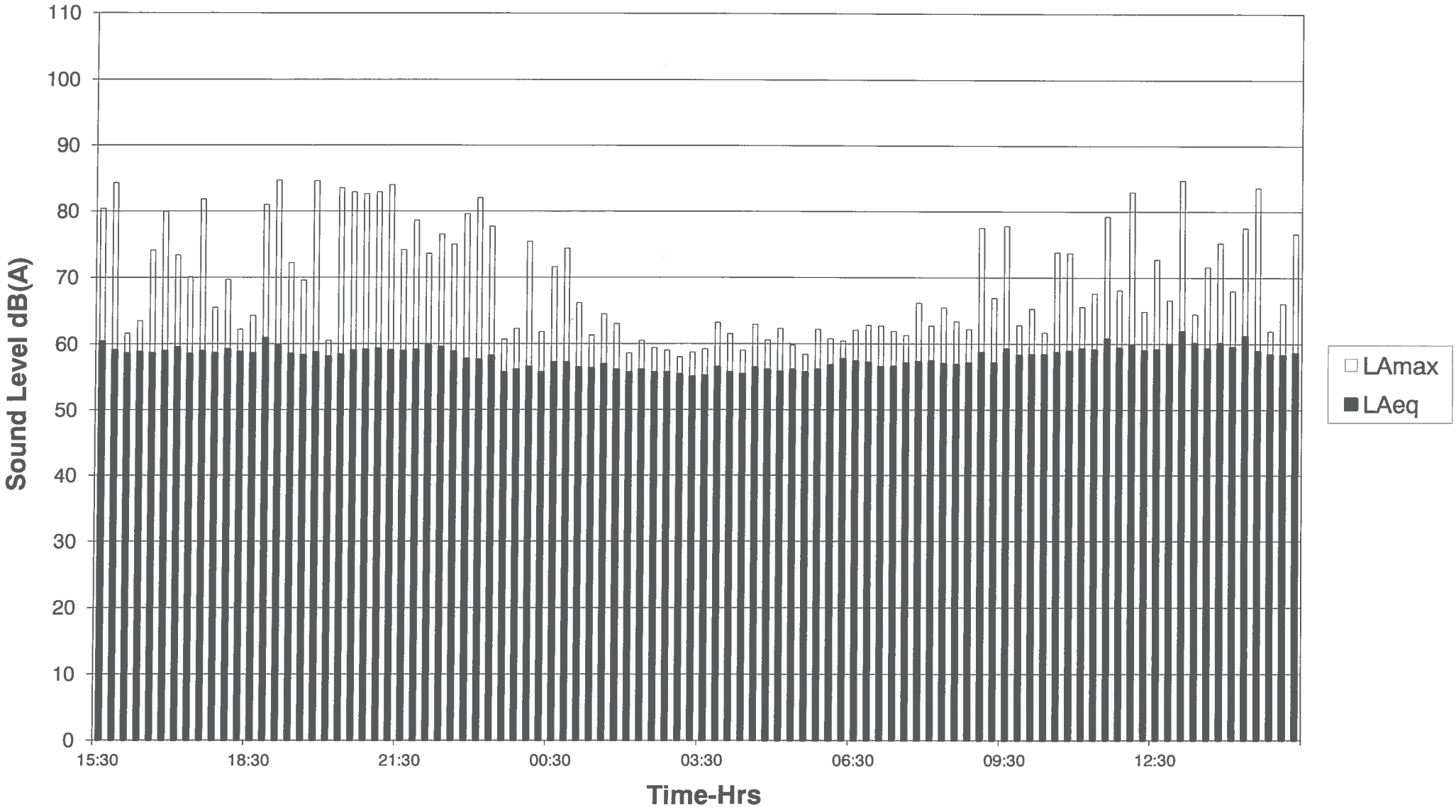
Time History Graph 18919/TH2

11-13 Goodge Street
Position 2
L_{A10} and L_{A90} Noise Levels
Monday 04/02/2013 - Tuesday 05/02/2013



Time History Graph 18919/TH3

11-13 Goodge Street
Position 2
L_{Aeq} and L_{Amax} Noise Levels
Monday 04/02/2013 - Tuesday 05/02/2013



Time History Graph 18919/TH4

Appendix 6:

Dust Risk Assessment

(In line with the GLA's Control of Dust and Emissions Supplementary Planning Guidance)

ERNEST PARK

Dust Risk Assessment

(In line with GLA's Control of Dust and Emissions Supplementary Planning Guidance)

Hazard: Dust Types present: Nuisance dust, silica dust, wood dust, plasterboard ***Risk:*** Dust inhalation Silicosis Lung cancer COPD (chronic obstructive pulmonary disease) Asthma Irritation to eyes Complaints from site neighbours **Location:** 11- 13 Goodge St during soft strip – silica dust	***Controls:*** • Limit number of persons exposed to dust where practicable. • Screen off areas to prevent dust spreading. • Use of remote controlled cutting equipment where practicable. • Use of on-tool extraction where practicable. • PPF2 disposable masks to be worn during welfare set up works. • PPF3 disposable masks to be worn during soft strip • All mask users to have been face fit tested. • Consider powered RPE for long duration works in enclosed areas. • Use water during demolition to suppress dust at ground level. Keep levels down so far as reasonably practical below the Workplace Exposure Limit (WEL) of 0.3 mg/m^3 Time Weighted Average (TWA) over an 8hr period. • Background monitoring of dust to be undertaken within working area at start of works then once a week/month (depending on assessment) to ensure levels are within WEL. • Employees to wear suitable eye protection. • Toolbox talks given to all operatives throughout the works to include dangers of dust, silica dust information, eye protection and fire. • Water suppression whilst using shute. • Water suppression to control nuisance dust. ***Extent to which they control the risk:*** • Reduces the amount of airborne dusts and the possible effects. • Protects neighbouring properties from possible contact with excessive dust. • Protects site operatives from possible contact with excessive dust. • Raises awareness of dangers of inhaling respirable and inhalable dusts