

Science & Industry Museum, Power Hall & De-Carbonisation



Issue: 01

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SHEQ manager on behalf of
H. H. Smith & Sons Ltd
Date: 05/07/2021
Rev: 01

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1. KEY PROJECT INFORMATION

1.1 Contact Information

ROLE & RESPONSIBILITIES	ADDRESS	CONTACT DETAILS
Principal Contractor	H. H. Smith & Sons Ltd Rear of 95 Bury Old Road Whitefield Manchester M45 7AY	Role: Contracts Manager Contact: Ollie Glasse Tel: 07769339078 Email: ollieglasse@hhsmith.co.uk Role: SHEQ Manager Contact: Juan Crous Tel: 07872952425 Email: jc@hhsmith.co.uk Role: QS Contact: Stephen Loster Tel: 0161 280 3509 Email: sl@hhsmith.co.uk Role: Site Manager Contact: Mike Clyne Tel: 0793468710 Email: mikeclyne@hhsmith.co.uk (SMSTS Trained)
Client	Science Museum Group	Ged Berry (Clerk of Works) Ged.Berry@scienceandindustrymuseum.org.uk
Project Manager and Contract Administrator	Gardiner & Theobald LLP Merchant Exchange 17/19 Whitworth Street West Manchester M1 5WG	Lynsay Robinson L.Robinson@gardiner.com T: 0161 817 4040 M: 07824 375 215
Principal Designer and Architect	Carmody Goarke 67-74 Saffron Hill London EC1N 8QX	Rowan Seaford rowan.seaford@carmodygoarke.com 0207 836 2333 Ana Maria Ferreira 0207 836 2333 Ana.maria.ferreira@carmodygroake.com
CDM Advisor to the Principal Designer	PFB Construction Management Services Ltd	Kathi Hill T: 020 7329 1221

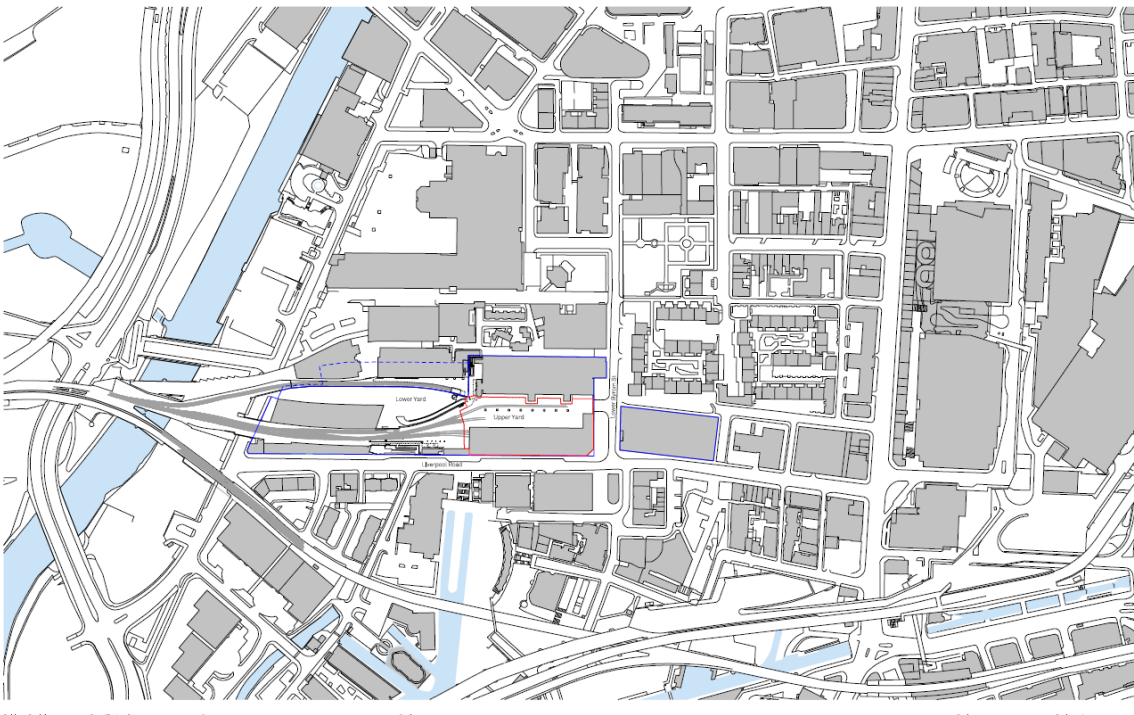
	2 nd Floor 72 Cannon St. London EC4N 6AE	E: kathi.hill@pfbconsult.co.uk
ROLE & RESPONSIBILITIES	ADDRESS	CONTACT DETAILS
Structural Engineer	Conisbee 1- 5 Offord St London N1 1DH	Kevin Clark E: kevin.clarke@conisbee.co.uk
M&E Engineer	Max Fordham Carver's Warehouse 77 Dale Street Manchester M1 2HG	Iain Shaw E: I.Shaw@maxfordham.com

1.2 Site Location

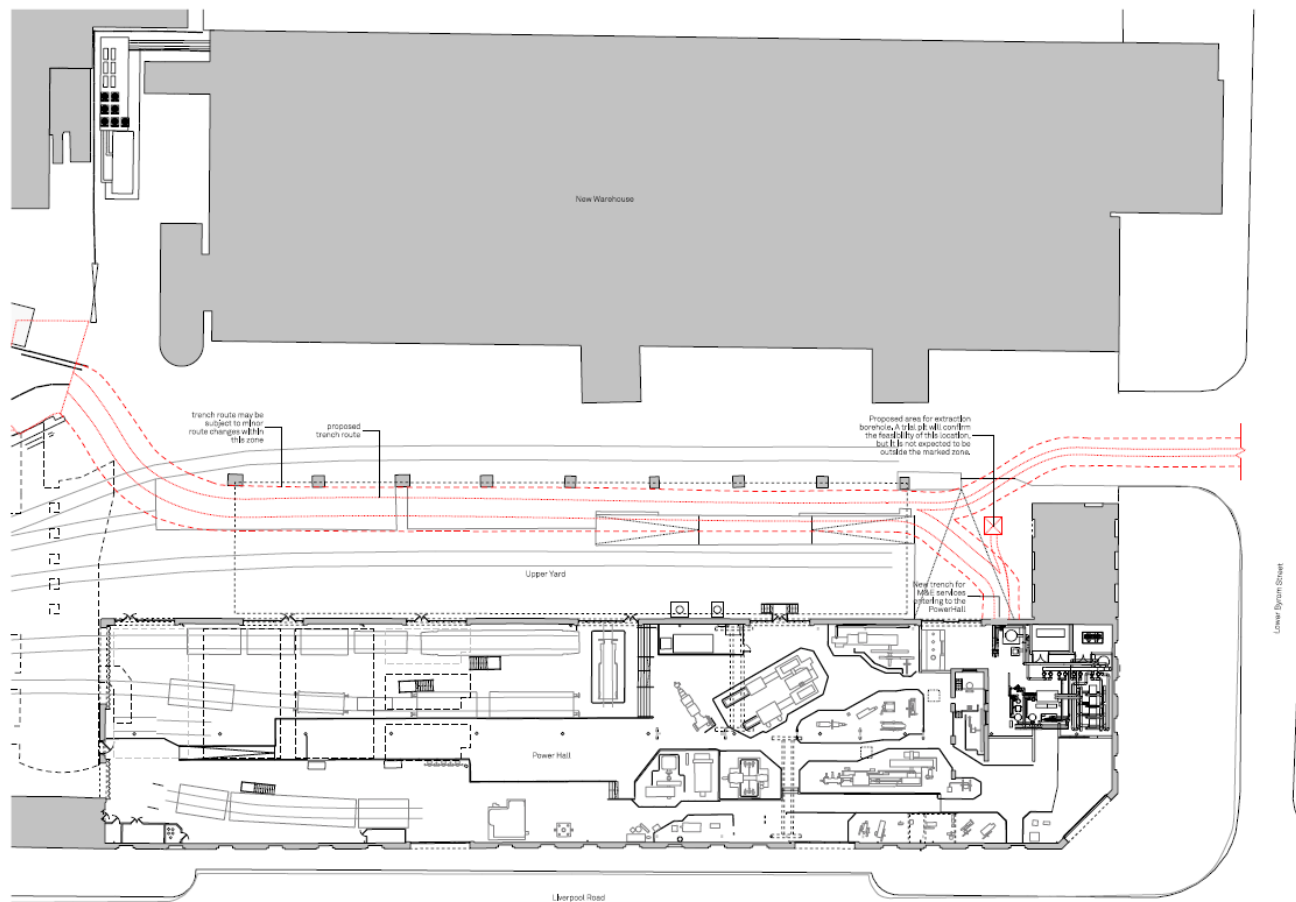
Science & Industry Museum
Liverpool Road
Manchester
M3 4FP

Please see appendix 1 of this document of existing site plan.

Below image; Site location plan



Below image; Proposed site plan, see appendix 2 for full plan.



1.3 Nature of Work / Introduction to Development

The project involves refurbishments and alterations to the Power Hall building including:

Strip Out Works comprise: - Site set up/welfare facilities; temporary works, possible asbestos removal, investigation works and opening up, decommissioning and removal of specified services; remove decking/raised platform areas and associated site clearance.

Construction works comprise: - Bore hole installation, associated pipework, lifting operations, electrical, mechanical, drainage, services; installations including energising commissioning and testing; roofing removal and reinstallation; replacement of windows, doors and rooflights; installation of fixtures, fittings, finishes and decoration; external works, paving/cobble, reinstatement.

1.4 Programme / Timings

Site Set Up Date:	17/03/21
Construction Start Date:	17/03/21
Duration:	12 Months
Estimated Completion date:	18/03/22

1.5 Hours of Work

Where noise on site is likely to affect local residence or business the hours of noisy works will be restricted to;

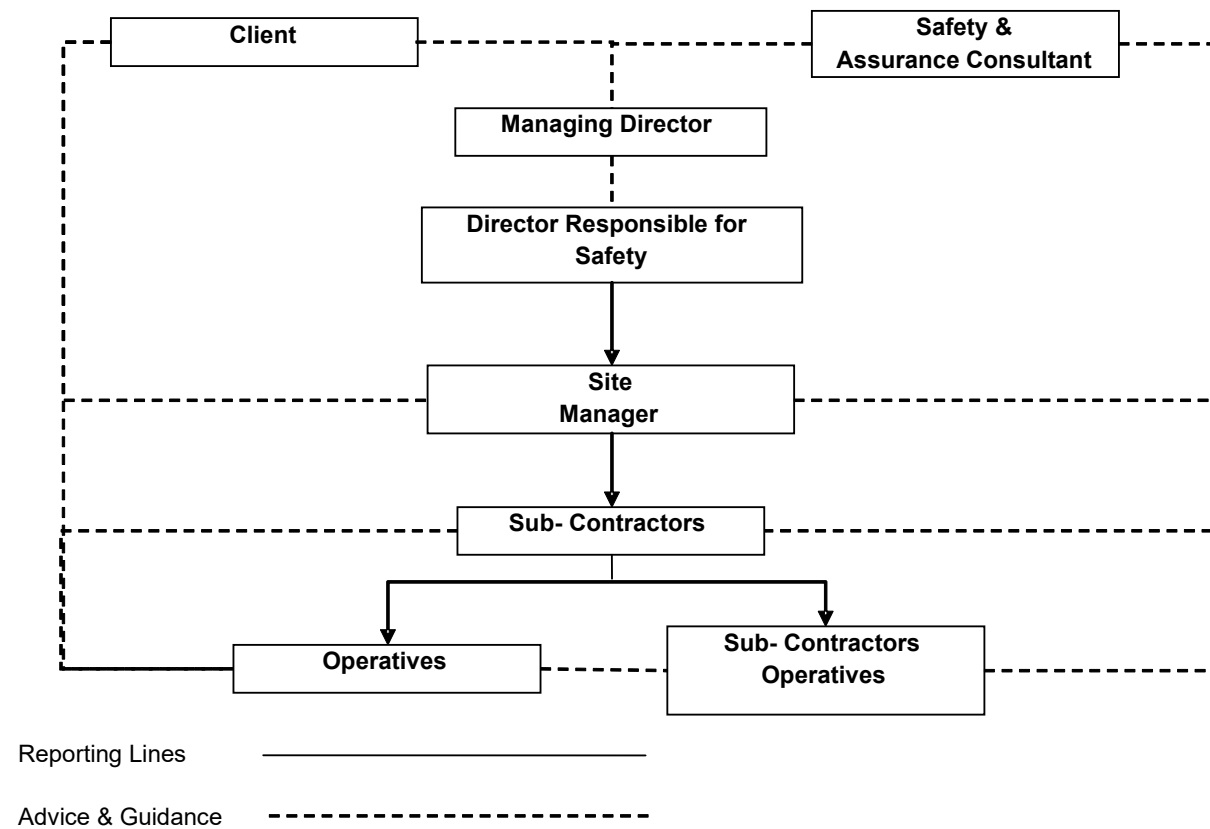
- Monday to Friday 08:00 to 18:00
- Saturday 08:300 to 13:00
- Not work at all on Sundays, Public or Bank Holidays

Any work necessary outside of these hours must be by prior consent in writing from the Client & local authority.

1.6 Development Control

HH Smith & Sons Co Ltd notes that through outlining the proposals included within this document the local authority planning requirements with respect to Construction Logistics Plans will be followed.

2. COMPANY HEALTH AND SAFETY MANAGEMENT STRUCTURE



3. TRAFFIC MANAGEMENT, SITE ACCESS AND RESTRICTIONS

3.1 *Vehicle access to site*

Upon receipt of planning approval/ Conditions, Manchester Council highways – Network Management will be consulted to agree Traffic Management procedures, timings, licences etc.

The Power Hall is situated on the corner of Lower Byrom Street and Liverpool Road. Both are a two lane highway. There is also an entrance to the museum Lower Yard from Water Street.

The Museum entrance to the of the North of the Power Hall will be used for the main site entrance, access will be from Lower Byrom Street.

Lower Byrom Street has a national 30 MPH speed restriction as does Liverpool Road.

Parking

HH Smith will take into account any parking / unloading restrictions imposed by the local authorities or police and will restrict construction traffic parking and unloading to the site as far as practicable.

There is a pay and display car park located on Liverpool Road as well as designated on street parking which will be used by operatives and visitors for the site.

Limited parking will be available on site. Access to the car park will be restricted during site hours and controlled with gates.

Parking around site will be utilised however contractor vehicles will not be permitted to park on footpaths or in a manner that restricts access to other parts of the site or surrounding roads.

On site traffic

Movement of on-site vehicles and MEWP's will be closely monitored and suitable and trained banks man employed. Risk Assessments will be done where the movement of vehicles on site affects other site activities.

Suitable demarcation will be maintained by the HH Smith & contractors to separate vehicle and pedestrian routes at all times throughout the duration of the project.

Pedestrian access

A dedicated pedestrian entrance into the site compound area will be utilised from Water Street.

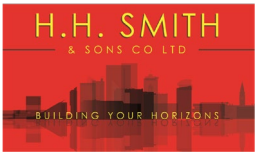
The entrance will be segregated from the construction activities & vehicle movements with barriers from the site entrance to the site office to allow visitors & all operatives to access the office/ welfare without the need of PPE.

A pedestrian gate leading onto construction areas from the compound will be controlled with a key code lock.

Please see appendix 3 of this document for the site set up plans.

Please see appendix 4 of this document for traffic management plan.

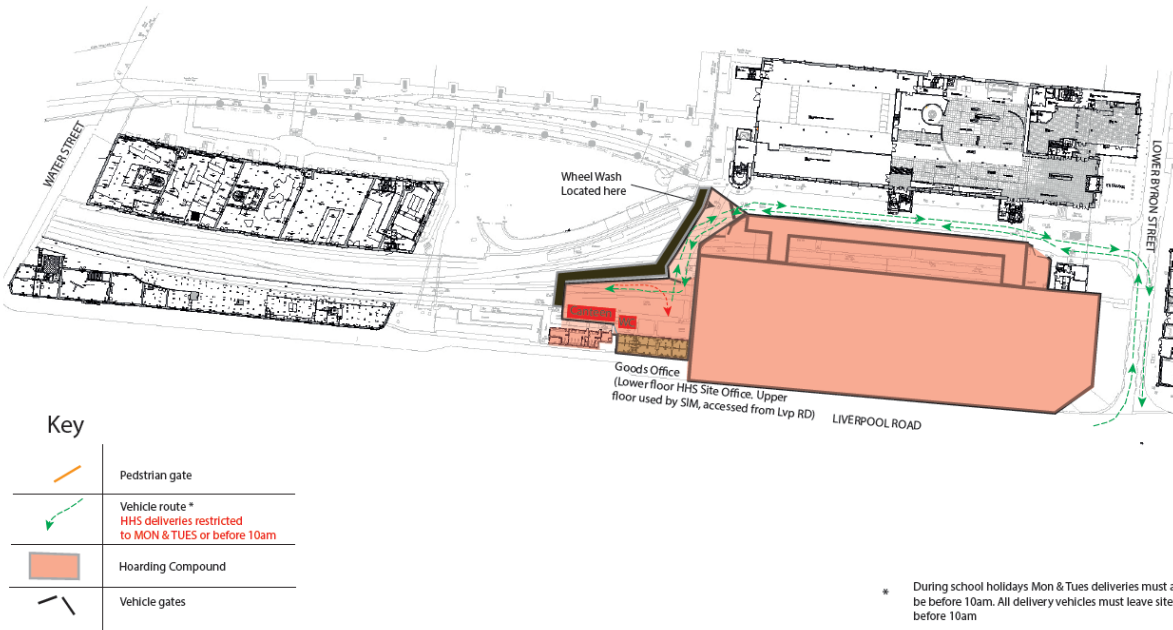
Construction Environmental Management Plan
Science & Industry Museum – Power Hall & De-Carbonisation



Below plan; Site Logistics Plan, full plan in Appendix 3



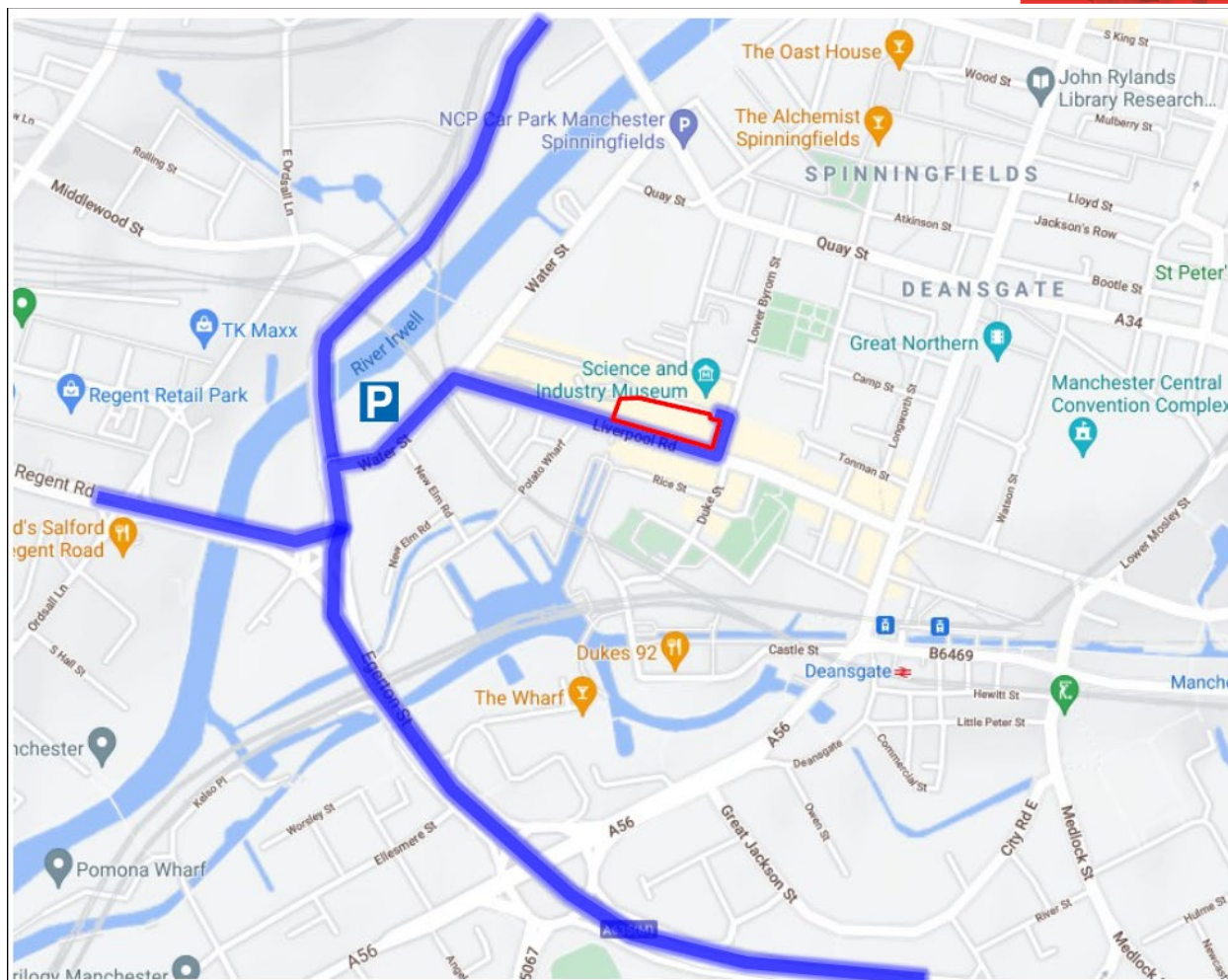
SIM - PH & D Logistics Plan - Power Hall Roof Works
REV A (12/07/21)



Below Image; Google street view of site temporary site entrance



Below plan; Site Set Up & access plan, full plan with keys in Appendix 4



3.2 Deliveries to Site / Supply Chain Management

The site access point for deliveries will be from the existing site entrance off Lower Byrom Street.

The primary contact for all deliveries is the Site Manager who is based on site throughout all operations. No phasing is anticipated, and the single point of contact for deliveries will be in place throughout. An alternative contact in case of unavailability or emergencies is available at HH Smith & Sons Site Offices.

All contract/ operative deliveries **MUST** be arranged & agreed with the site manager or site supervisors in advance. All deliveries no matter the size **MUST** be booked in on HH Smith's Delivery booking IN form on site at least 24 hours prior to the delivery.

Any delivery attempted to site and **NOT** booked in **WILL** be turned away from site.

Delivery routes/ entrance for unloading/ unloading areas will be highlighted with signs.

Deliveries to site will be arranged to avoid peak traffic times of the day within normal working hours to ensure minimal disruption to local business users, residents and traffic movements.

Deliveries are not permitted between: **8:00 – 9:30 am and 16:00 –17:00** in order to avoid the peak congestion periods.

Any deliveries attempted outside the agreed delivery times, or in contravention of the booking in system will not be allowed to enter site and will be turned away. All sub-contractors and suppliers will be advised that non-compliance with the agreed delivery schedule will result in an appropriate sanction which will be identified in all contracts and purchase orders.

Delivery drivers must contact the site manager or site supervisor before entering site. Arrangements will be made for the vehicle to be guided to & from site by banks man.

Deliveries and collections should also be planned to de-conflict with those related to the normal operation of the Site.

Unloading & loading of deliveries & plant;

On arrival at the site, the driver must stop and report to the site office.

Drivers MUST not park or leave vehicles in areas that obstruct the local highways & footpaths.

Prior to deliveries accessing the construction areas/ delivery off load areas HH Smith will make suitable arrangements for the vehicle to be guided to & from site by banks man.

Banks man will guide the vehicle safely to the project offload area, including overseeing any reversing, and his instructions must be followed accordingly.

All delivery drivers must have full PPE (i.e. hard hat, safety footwear, hi-vis vest or jacket and suitable gloves) before entering CDM construction areas

Reversing of vehicles on highways or site should be avoided. If reversing cannot be avoided suitable controls must be implemented; exclude pedestrians, use suitable number of banks man to guide/ control movements, vehicle audible warning when reversing, enough space to manoeuvre etc.

When unloading takes place directly off the public roads banks men must supervise either side of the vehicle to ensure the public are not at risk.

The above TMP will be issued to all suppliers & contractors to ensure the agreed routes & procedures are followed to create minimum disruption on site and on local highways.

3.3 Use of Alternative Modes of transport & deliveries

The design Team currently anticipates that all materials transported to and from the site will be carried out by road.

3.4 Delivery Targets

Appropriate targets will be determined on appointment of sub-contractors and suppliers with the aim of reducing the number and frequency of deliveries thereby reducing the impacts of the construction phase on local residents.

These targets will be monitored monthly and reports issued to supply chain where possible improvement.

4. CONSTRUCTION SITE MANAGEMENT & PROCEDURES

4.1 Unauthorised Access to Site/ Hoarding

There is an existing hoarding surrounding the site perimeter, this will be utilised.

The site entrance will be kept closed at all times and signs will be erected around the perimeter of the site. Pedestrian access to the site will be through the authorised access point only and will be controlled through the booking in system and with the use of digital door locks. Information boards will be sited at entrances to identify access procedures and contact telephone numbers.

4.2 Compound Area

A permanent site office, canteen, drying room & WC facilities will be used.

For details of access to the site compound, plant and materials storage areas, please see Proposed Site Set Up Plan in Appendix 3 of this document.

Security arrangements will comprise of a CCTV system installed to view strategic areas which will be remotely monitored during times when the site is non-operational.

4.3 Plant and Machinery movements

All necessary steps will be taken to reduce noise levels from plant, machinery and work activities in accordance with the Noise at Work Regulations 2005. Where reasonably practicable, noise levels will be reduced at source to their lowest reasonable level.

If necessary the Site Manager will carry out noise assessments with guidance from the Health & Safety Manager, where considered necessary and appropriate measures taken to protect site operatives, residents and members of the public from site noise.

Any possible excessive noisy work activities will be carried out at times that will cause least possible disturbance to the local residents, surrounding business or schools etc.

Noisy plant & equipment will be placed as far as possible from areas that may be affected from the noise. Noise dampening measure will be taken if required to reduce noise reaching sensitive buildings.

Banks man will guide plant if crossing pedestrian routes, highways or any other area where plant may come into contact with public or pedestrians.

4.4 PPE

All PPE will be in compliance with the HH Smith & Sons, H & S requirements, which are included as an appendage to the Health & Safety Plan. As a minimum, hard hat, high visibility vest and safety shoes must be worn at all times on site, and in addition, operatives must wear long trousers and short sleeve shirts as a minimum to protect them from UV radiation. HH Smith & Sons Co Ltd will make sun cream freely available to operatives in hot weather.

PPE requirements for specific high-risk tasks are included in the relevant risk assessments and method statements.

4.5 Security

Security arrangements will comprise of a CCTV system installed to view strategic areas which will be remotely monitored during times when the site is non-operational.
A full site hoarding will be erected around the site and continuously maintained throughout the project.
No authorised access to site will be allowed, particularly by children. The site will be left secure at the end of each working day.

All of the Site workforce and visitors will sign in and out of the site as per the induction briefing on a daily basis.

All of the site workforce & visitors must wear company branded Hi Visibility Vests this will enable easy identification by client representatives, staff etc.

4.6 Buried Services

Services & utility surveys will be carried out before works start copies will be issued to all contractors that may be affected. Hard copies will be kept on site.

Prior to any task where ground will be broken with equipment or tools existing drawings or plans will be checked by the site manager for any possible services within the proposed work area, if no drawings or information is available a buried services survey will be carried out & findings recorded on the PF004.3 Survey for Buried Services survey.

A CAT scan & genny will be used by a competent operative with the relevant qualifications to carry out the buried services survey. If any services are found, they will be exposed and reported to contract administrator.

Prior to excavations works commencing a dig permit to work must be issued by the site manager.

4.7 Temporary support

All temporary works will be designed by competent contractor.

A Structural engineer has been employed to survey and issue any requirements for temporary support during the construction phase.

The temporary design will be issued to a competent person with qualifications relevant to structural work required to review & amendments made if any is required.

Once the design has been agreed a competent contractor will install/ erect the temporary support as per the design. The temporary works will be installed/ erected using the materials/ equipment specified as per the manufacturer instruction guidelines & design.

Once the temporary works have been installed/ erected a competent person will inspect the installation to check if it has been installed as per the temporary design.

Once the installation has been signed off work can commence.

No person can alter or dismantle the temporary support installed unless instructed or advised by a competent person.

4.8 Permit to work

A permit to work system will be in operation for the following hazardous activities within the site demise

- Works involving Hot Works
- Works on Electrical Systems/ services

- Works in Confined Spaces
- Works involving Hazardous Substances
- Works at Height
- Work in any occupied areas
- Works involving breaking ground

4.9 Supply Chain management

All traffic management plans & site logistic plans will be issued to supply chain.
Items to be sourced locally or from the same supplier to reduce the number of deliveries to site.
Suppliers must follow procedures to avoid Deliveries during peak time traffic.

HH Smith & Sons Co Ltd will operate a delivery booking system. Deliveries can only be made by prior appointment and must be carried out under this agreement.

4.10 Intrusive site investigation works and monitoring

PRE-DEVELOPMENT ARBOREICULTURAL SURVEY AND IMPACT ASSESSMENT has been undertaken by the client.

The report & its findings will be reviewed before construction work start to ensure any recommendation or protection measure works is carried out and briefed to the project management team & contractors. A copy of the plan will be held on site and will be included in the site Construction Phase Health & Safety Plan.

4.11 Construction Methods

For details of works to be undertake please see specific method statements contained in Appendix 6.

Cranes used on this project will be mobile cranes and a full lifting plan will be developed specifically for each lift. All cranes will be positioned within the existing site compound.

5. COMMUNICATION & MONITORING

5.1 Monitoring Arrangements

All procedures and proposals identified in this CLP will be monitored and data collected as required to ensure that actual activities can be monitored and compared against the targets set.

Monitoring meetings will be held on a quarterly basis to review findings against targets.

All data identified in the CMEP will be collected by the site manager and will be reviewed on a weekly basis to ensure that targets are being achieved, or to agree measures required to rectify issues identified. The results of the data monitoring will be presented at site progress meetings on a fortnightly basis.

Data to be monitored should include the following:

Noise

Delivery / collection accuracy compared to schedule

Breaches & complaints

- Vehicle routing
- Unacceptable queuing
- Unacceptable parking
- Supplier FORS accreditation
- LEZ compliance
- Contractual conditions compliance

Safety

- Logistics related accidents
- Record of associated fatalities and serious injuries
- Ways staff are travelling to site
- Vehicles and operations not meeting safety requirements

Effectiveness of waste plan

- Percentage of recycled materials used in the development
- Percentage of materials re-used on site
- Percentage of waste recycled

5.2 Consultation and neighbourhood liaison

Prior to commencing works on site a letter drop will be done around the area notifying neighbours & local business of the works start date & expected programme of the works.

The site manager's contact details will be included within the letter and will be encouraged to contact him for any feedback positive or negative.

The proposed site traffic management plans & delivery plans will be agreed with the local council and highways to ensure suitable routes is agreed so minimum disruption is caused to the local highways. Deliveries to site will be arranged to avoid peak traffic times of the day within normal working hours to ensure minimal disruption to local business users, residents and traffic movements.

Prior to any abnormal deliveries due to size or number of vehicles i.e. muck shift wagons, concrete wagons for foundation & slab pours, steel deliveries to site on articulated wagons a leaflet/ letter drop will be done to notify the Neighbours & local business of this.

5.3 Staff training and briefing procedures

General Training

There is a commitment to ensure the training needs of all employees & contractors is reviewed on a regular basis and providing initial and refresher training for all of employees to ensure that adequate safety standards are met and maintained.

Employees will be given information on the risks to their health & safety. Training is linked to capabilities to ensure that anyone given a specific task is capable of carrying this out in the prescribed manner.

In addition, employees and sub-contractors will be provided with adequate health and safety training through induction briefings prior to commencement and “Tool box” talks aimed to make employees aware of the risks and necessary controls prior to commencing an operation.

Site Specific

All personnel employed on the site will receive a Site-Specific Induction before commencing work on site.

Site Liaison

Regular site meetings will be held with all Operatives, Client Representatives and major suppliers, at which the company will present the following information in relation to health, safety & environmental:

- A report on any accident along with any comments, lessons learnt and a copy of the accident report.
- Notes of any meeting between the client/local managers/police/emergency services.

Arrangements for co-operation and co-ordination between the on-site Operatives and major suppliers will be discussed and methods agreed for ensuring that all health and safety decisions will be passed between all parties and to the site operatives.

Meetings to discuss health and safety will be held as and when required either by the Client, the Principal Designer or HH Smith & Sons Co Ltd.

Any unforeseen eventualities during the execution of the works, which could have implications on health and safety, will be brought to the attention of the company’s Safety & Assurance Consultant immediately.

Any of the following events will be reported to the Client, Principal Designer and the Site Manager immediately.

Accident/incident/Near Miss

Visit to site by any Enforcement Agency.

Improvement or Prohibition Notices issued by an Enforcement Agency

Any formal warning issued to Operatives

5.4 Complaint procedure

A Customer Complaint is defined as: A complaint by a Customer during or after the delivery of the service or product.

Receipt and Registration of complaints

The recipient of a complaint shall, without any undue delay, acknowledge the receipt of the complaint and pass the details onto the Quality Representative.

The Quality Representative will record the details of the complaint assign a reference number.

Appropriate corrective actions and responses will be decided on as detailed below then recorded in a report.

Investigation and response to complaints

Where the recipient of a complaint identifies the complaint as being associated with a specific client order or area of work, which is under the control of a specific Contract Manager/Supervisor, it should be referred to him for the initial investigation and provision of a report to the Managing Director.

All other complaints shall be referred to the Managing Director who will forward it to the relevant Manager/Partner for action or if relevant deal with it himself. He may also pass the Customer Complaint Report to the Managing Director if necessary.

Details of any investigation and subsequent actions shall be recorded on the PF039 Feedback Log by the investigating Manager and on issue of a written response the Customer Complaint Report shall be closed.

Where the action includes the issuing of a Non-conformance Report, the Customer shall be informed of its subsequent satisfactory closure.

Once closed the Feedback Log will be updated to show the date the issue was closed and who verified the close out.

5.5 Managing Change

The procedure set out below should be included within the construction phase health and safety plan which should be issued to all contractors & suppliers of the project to incorporate any procedures along with any other documentation produced for the project.

The Site Manager will act as the point of contact for the Principal Designer, Contract Administrator and the Client. If this appointment changes, all parties involved will be notified.

Procedures for considering the health, safety & environmental implications of design elements of the HH Smith & Sons packages.

Where a change in design is required then HH Smith & Sons Co Ltd will consult with the Designer to consider safety implications of possible design changes; for example:

What new hazards arise from the design changes

How these hazards can be designed out or minimised and any additional safety measures that may be required.



Procedures for dealing with unforeseen eventualities during the project execution (resulting in substantial design change and which may affect resources).

HH Smith & Sons Co Ltd will consult with the Designer to consider:

Safety implications of the proposed design changes

What new hazards arise from the proposed design changes

How these hazards can be designed out or minimised and any additional safety measures that may be required.

Liaison with any Sub-contractor who may be involved or possibly manufacturers/supplier may be necessary during consultations, but in all cases the Contract Administrator/Principal Designer will be advised on the outcome and the effect upon this Health and Safety Plan.

Monitoring of Health & Safety Standards

Regular visits will be made by H. H. Smith & Sons Ltd representatives who will carry out site inspections and prepare reports, drawing any non-compliance to the Site Manager's immediate attention. The Site Manager will also carry out ad-hoc safety tours of the site. Any serious situations or continuing non-compliance will be reported to the Managing Director and the Client.

6. WASTE MANAGEMENT

6.1 Site waste management plan

An environmental plan along with a site-specific site waste management plan will be developed for the project.

The construction contract will result in a variety of wastes arising that shall be minimised as far as practicable, and the remainder managed in keeping with UK and international legislation. This plan provides detailed guidance to ensure that waste minimisation and effective waste management is practised. Additionally, resource management and storage & ordering procedures are a crucial element of waste minimisation and thus are included in this plan. Waste practices specified are also designed to achieve the client and HH Smith & Sons aims and objectives for waste management.

The Client Waste Objectives and Targets

The Client's waste objectives and targets should be obtained during the planning stage of the contract/project and incorporated into HH Smith & Sons waste objectives and targets for the duration of the contract/project.

Reduction of wastes from services;
Restricting or suspending use of hazardous substances; and
Identification of areas where energy savings can be made;

HH Smith & Sons Waste Objectives and Targets

Quantify all significant waste streams and their disposal routes
Investigate and report on reuse or recycling possibilities for all wastes;
Set reduction targets for all wastes going to landfill
Review facilities for management of the creation, storage and disposal of hazardous wastes
90% of waste materials recycled via waste transfer station with remaining 10% diverted from landfill to waste to energy.

6.2 Waste Disposal

The waste disposal process will be in line with site waste management developed specifically for the project.

Rubbish, debris, redundant materials, etc will be collected regularly from the work area, placed into segregated skips and not allowed to accumulate. Skips will be lockable and placed on skids to prevent damage to existing surfaces.

Arrangements will be made with a locally licensed Waste Disposal Contractor who will collect the skips regularly for disposal at an appropriately licensed disposal station.

6.3 Demolition works

A specialised demolition contractor will be employed to undertake demolition works.
A copy of the RA, MS and section 80 notice will be on site prior to any demolition works.

The demolition contractor has issued a demolition sequence plan and a copy has been issued to site.

Temporary support of the neighbouring structures may be required.

HH Smith has employed a temporary work engineer which will be working with the demolition contractor to review any requirements for temporary support during the demolition.

6.4 Asbestos

A refurbishment & Demolition asbestos survey has been undertaken of the existing buildings
As per the Survey asbestos containing materials have been identified within the proposed work areas.

If Asbestos is identified and is likely to be disturbed during the proposed works a competent HSE licensed asbestos contractor will be employed to remove the asbestos containing materials under controlled conditions with relevant RA & MS. Before any works can commence in areas where asbestos materials were identified a certificate of reoccupation or waste consignment notes must be issued to HH Smith & a copy kept on site.

Work will not commence until the Site Manager has reviewed the survey information and is satisfied that operatives are not likely to disturb asbestos containing materials (if pending survey shows ACMs to be present).

If asbestos is found to be present but can be left undisturbed during the work the entire workforce will be informed of the known locations of the asbestos at induction and instructed to always check with the site manager before starting work in a new area. They will also be made aware of the need to be vigilant of the presence of asbestos even when the asbestos register/survey shows “all clear”.

H. H. Smith & Sons operatives and sub-contractors will, as a minimum be supervised by an asbestos awareness trained supervisor although most of the current workforce hold asbestos awareness training. Method statements will include reference to asbestos risk control measures.

H. H. Smith & Sons Ltd operatives and sub-contractors will be vigilant of the presence of asbestos, particularly when opening up existing structures and voids. Upon discovery of a suspected ACM they will stop work and inform the Site Manager who will then inform the Client Project Manager. Work will not continue until the suspect material has been given the “all clear” by a competent asbestos surveyor or the material removed by a licensed asbestos removal contractor.

7. ENVIRONMENTAL MANAGEMENT

7.1 Air Quality Monitoring

The air quality will be monitored where there is evidence of airborne hazardous materials or there is a risk of fumes or dust affecting the local area and take the required corrective actions.

7.2 Control of Noise and Vibration

All necessary steps will be taken to reduce noise levels from plant, machinery and work activities in accordance with the Noise at Work Regulations 2005. Where reasonably practicable, noise levels will be reduced at source to their lowest reasonable level and PPE must only be employed as the last resort.

If necessary the Site Manager will carry out noise assessments with guidance from the Health & Safety Manager, where considered necessary and appropriate measures taken to protect site operatives, residents and members of the public from site noise.

Any possible excessive noisy work activities will be carried out at times that will cause least possible disturbance to the local residents, surrounding business or schools etc.

It is not likely that the scope of works will cause significant noise levels, but the client will be given prior notice should this change.

7.3 Control of Dust & debris on highways and air pollution

The existing hard standing tarmac areas leading onto site & car park areas that will be used as delivery areas will be retained during the construction period thus minimise the risk of dust or debris on the highways.

All necessary precautions will be taken to protect the building residents, members of the public and site operatives from the effects of the inhalation of respirable dust that may be caused by the works.

All operations that may create dust will include a type of dust suppression technique, such as damping down or mechanical dust extraction. This applies specially to cutting or grinding operations. All operatives will be issued with and required to wear suitable goggles and masks or respirators, wherever this type of work is being carried out.

Vehicles transporting aggregates or waste to & from site will be suitable covered.

Where there is a stockpile of soil these areas shall be damped down to reduce the risk of dust emissions. The handling of spoil should be kept to a minimum to reduce the emission of dust.

No materials will be burned on site.

Wheel wash will be used to clean deliver vehicle wheels when leaving site.

The site manager will arrange for the surrounding highways to be swept with a road sweep as and when required.

Emissions from plant will be controlled by ensuring plant is in good order by regular services & maintenance. Plant must not be left running for long periods when not used.

The reuse of materials on site will be encouraged.

Plant used on site to crush materials should be done with an environmental permit issued from the local authority. The works must be done as per the procedures within the permit. Where plant is used to recycle materials the appropriate Environmental Permit from the environmental agency shall be obtained.

7.4 Schedule of environmental legislation and good practice

A Register of Legislation applicable to all the activities and operations, which have an effect upon the environment will be included within the site environmental plan.

In addition, where relevant a current record of the various agreements, commitments and conditions associated with obtaining planning approvals, licences and consents have been developed.

In order to ensure that the legal requirements placed upon individuals undertaking specific tasks are communicated at the appropriate point, all environmental procedures, work instructions produced within Environmental Management System will carry a section detailing the legislation, requirements and impact.

7.5 Register of permissions and consents required

Street works – alterations to highways, entrance to site.
Sewer connections – connecting new drawings into existing.
Utilities connections outside the site boundary.

7.6 Environmental Audit Programme

The monitoring and measurement of the activities and operations carried out at the site, which pose significant risks to the environment, and the recording of information to track performance and conformance with the Environmental Policy, Legislation, Assurance Objectives/targets and this Management Plan, will be undertaken through the following:

- Weekly work-place Environmental and Safety Tours by the Site Manager
- Monthly Inspections undertaken by the SHEQ Manager initiating corrective action when appropriate.
- Reports to Senior Management via the management review.
- Periodic review of legislation, the register of significant environmental aspects & impacts
- Third Party Audits and Inspections

The Site Manager will ensure that the monitoring takes place within the specified timescales with guidance and assistance provided by the SHEQ Manager.

Activity or Subject	Responsibility
Monthly Inspection & production of report	SHEQ Manager
6 Monthly Inspections & Production of report and NCRs if applicable	SHEQ Manager
Third Party Audits	Responsible 3 rd Party i.e. Client's Representative with assistance from Site manager &/or SHEQ maaher
Review of Inspection Reports	Managing Director & SHEQ Manager
Close out of NCR	Recipient of NCR
Management Review	Managing Director Responsible Manager Management Team

7.7 Environmental Risk Register

HH Smith & Sons Co Ltd is committed to implementing appropriate strategies and processes that identify, analyse and manage the risks associated with these internal & external influences as a means of minimising the impact of undesired and unexpected events on our business activities.

We will therefore via; the Aspects and Impacts Register, Risks and Opportunities Register, Business Objectives, Commercial Risk Register and the Business Continuity Plan:

- Identify business objectives that reflect the environmental interests of all our stakeholders
- Identify both the environmental threats to the achievement of our business objectives and possible opportunities
- Control and manage our exposure to environmental risk by appropriate risk reduction and mitigation actions
- Regularly review our exposure to all forms of risk and reduce it as far as reasonably practicable or achievable
- Apply robust risk management processes as part of a wider management system
- Educate and train our managers in environmental risk management
- Regularly review the environmental risks we face as a result of our business activities and of the business and economic climate in which we operate
- Identify cost effective risk treatment options
- Identify and regularly measure key risk indicators and take appropriate action to reduce our risk exposure

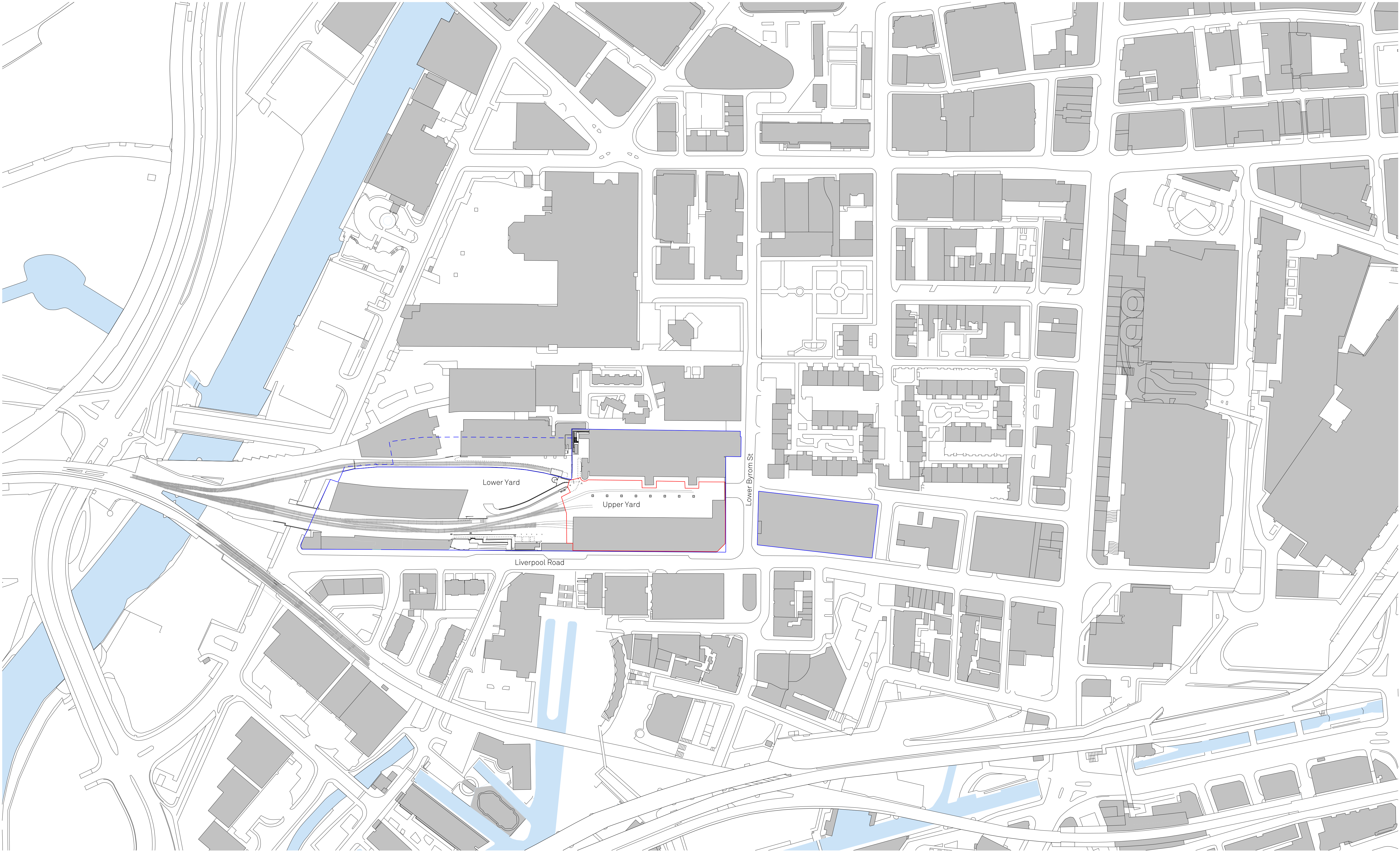
This Construction Environmental Management Plan (CEMP) specific to the **Science & Industry Museum, Power hall & De-carbonisation** & will be designed in response to BS EN ISO 14001: 2015 Environmental Management Systems, HH Smith & Sons Co. Ltd' own environmental policy and Assurance objectives and targets.

The CEMP will be utilised throughout the life of the project and will be regularly reviewed by the Safety & Assurance Advisor to ensure its ongoing suitability to the work undertaken at the site.

A Sustainability Risk Assessment & Mitigation register is intended to ensure that environmental, social and economic (sustainability) issues are assessed, understood and managed in all key procurement decisions that relate to the procurement of goods (products) for the project. This register involves the identification of key impacts on the environment, society and the economy.

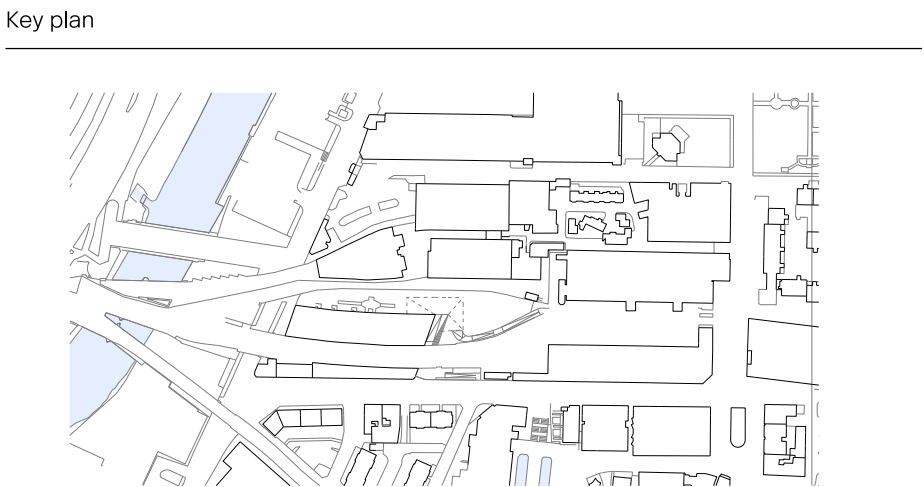


Appendix 1 Existing site plan



Revision	Description	Drawn/Check	Date
P1	Planning	CB0/ML	20/04/21

Key	
	Site boundary
	Ownership boundary
	Ownership/site below ground level



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Drawings are based on survey information provided and subject to changes to accommodate existing building structure and services installation. We have noted discrepancies in the survey information and clarification required following further site investigations by the contractor on site. Do not scale from drawing. Errors to be reported immediately to the Architect. All dimensions must be verified on site. To be read in conjunction with all relevant Architects' Services and Structural Engineers' drawings.

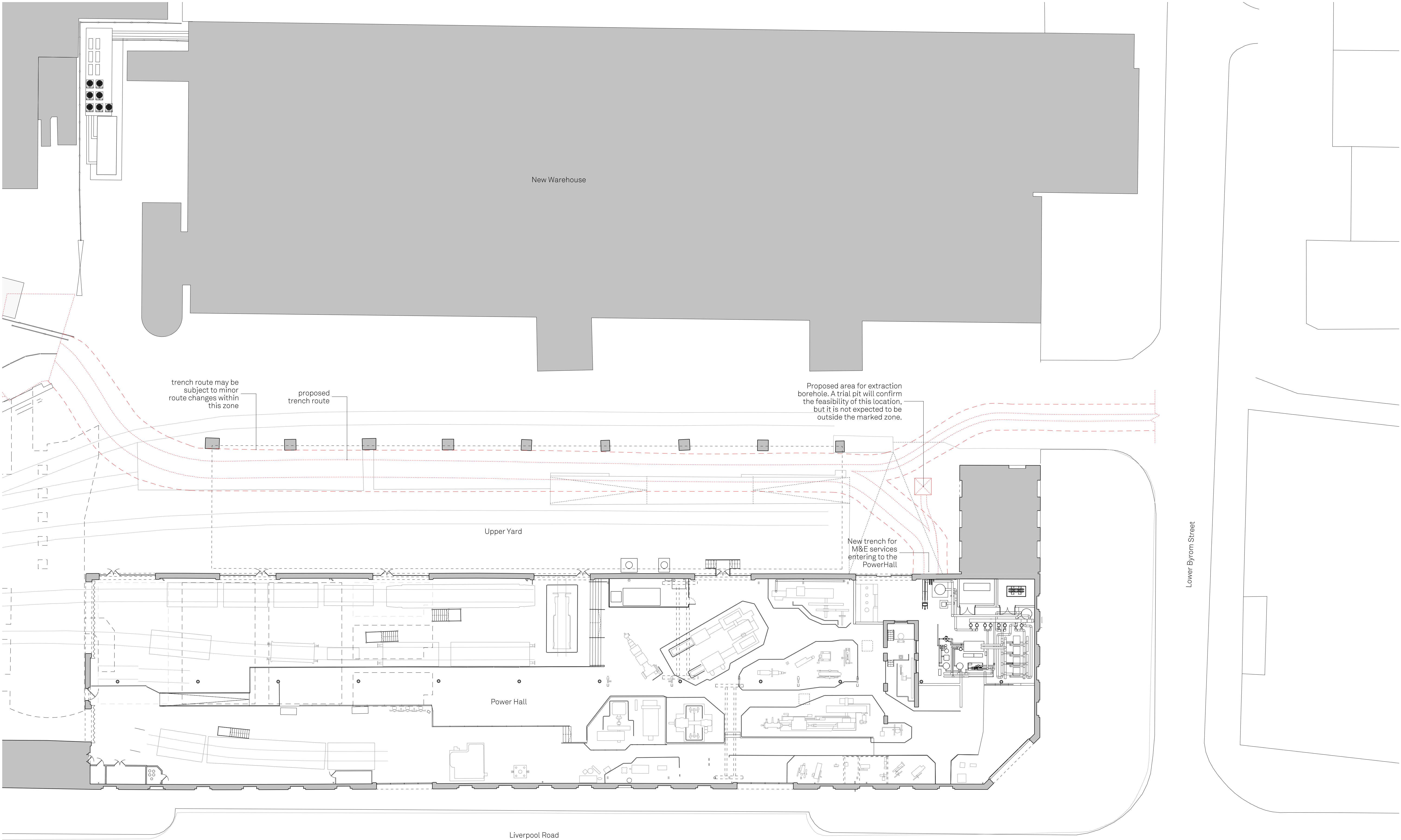
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+44 (0)20 7836 2333 www.carmodygroarke.com

Drawing name		Drawing number	
Site Location Plan		321_1A_X_00_00	
Date of current issue		Issue	
20th April 2021		Planning	
Project name	Power Hall & Decarbonisation	Scale/format	1:1250@A1
Client	Science + Industry Museum	Drawn/Checked	ML
Project number	321	Approved	AMF
		CAD Reference	P/Projects/321/CAD/sheets

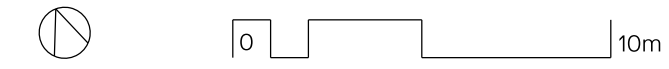
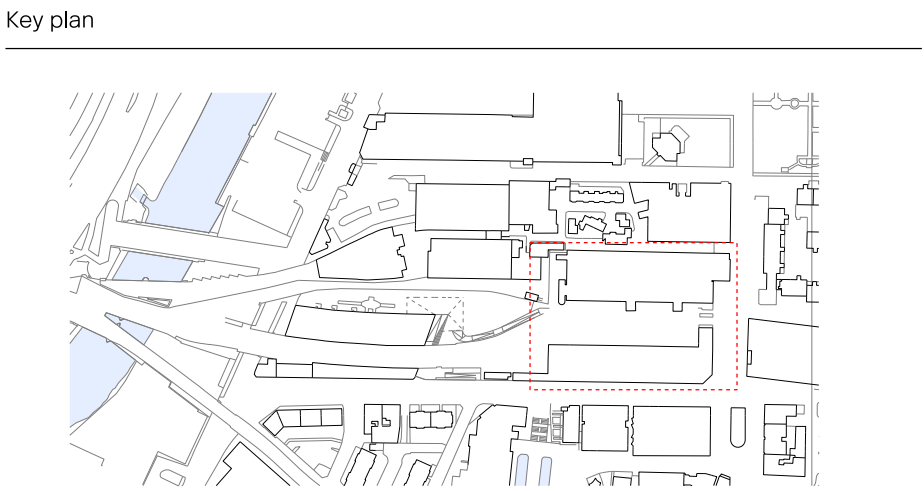


Appendix 2 Proposed site plan



Revision	Description	Drawn/Check	Date
P1	Planning	CB0/ML	20/04/2021

Key
Proposed new trench route



Drawings are based on survey information provided and subject to changes to accommodate existing building structure and services installation. We have noted discrepancies in the survey information and clarification required following further site investigations by the contractor on site. Do not scale from drawing. Errors to be reported immediately to the Architect. All dimensions must be verified on site. To be read in conjunction with all relevant Architects', Services and Structural Engineers' drawings.

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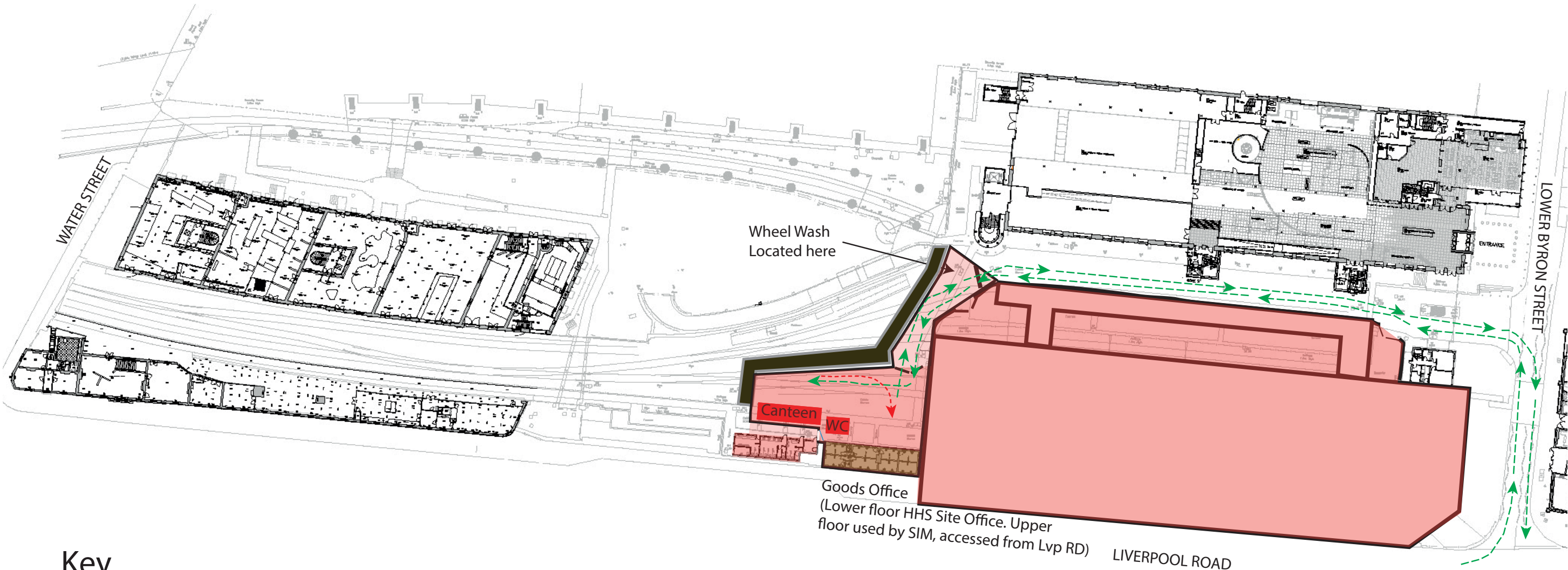
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Drawing name		Drawing number	
Proposed Upper Yard Site Plan		321_1A_P_10_00	
Date of current issue		Issue	
20th April 2021		Planning	
Project name	Power Hall & Decarbonisation	Scale/format	1:200@A1
Client	Science + Industry Museum	Drawn/Checked	ML
Project number	321	Approved	AMF
		CAD Reference	P/Projects/321/CAD/sheets



Appendix 3 Site Set-up

SIM - PH & D Logistics Plan - Power Hall Roof Works
REV A (12/07/21)



Key	
	Pedstrian gate
	Vehicle route * HHS deliveries restricted to MON & TUES or before 10am
	Hoarding Compound
	Vehicle gates

* During school holidays Mon & Tues deliveries must also be before 10am. All delivery vehicles must leave site before 10am

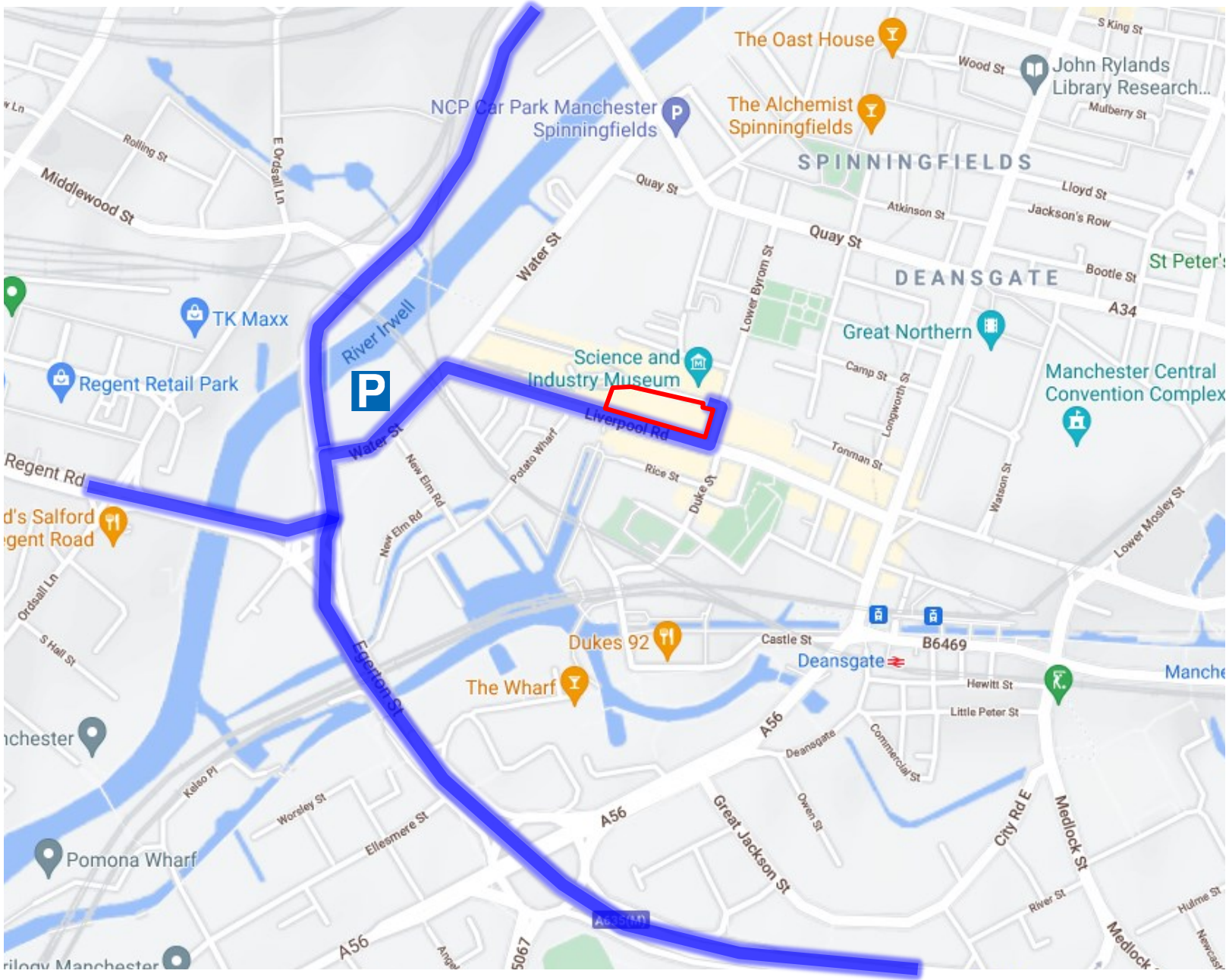


Appendix 4 Traffic Management

Traffic Management Plan

Science and Industry Museum Power Hall

HH Smith & Sons Co Ltd
Rear of 95 Bury Old Road
Whitefield
Manchester
M45 7AY
Tel: 0161 280 3509
Website: www.hhsmith.co.uk



Key	
	Project perimeter
	Main vehicle route to site. All vehicle types.
	Contractor Parking

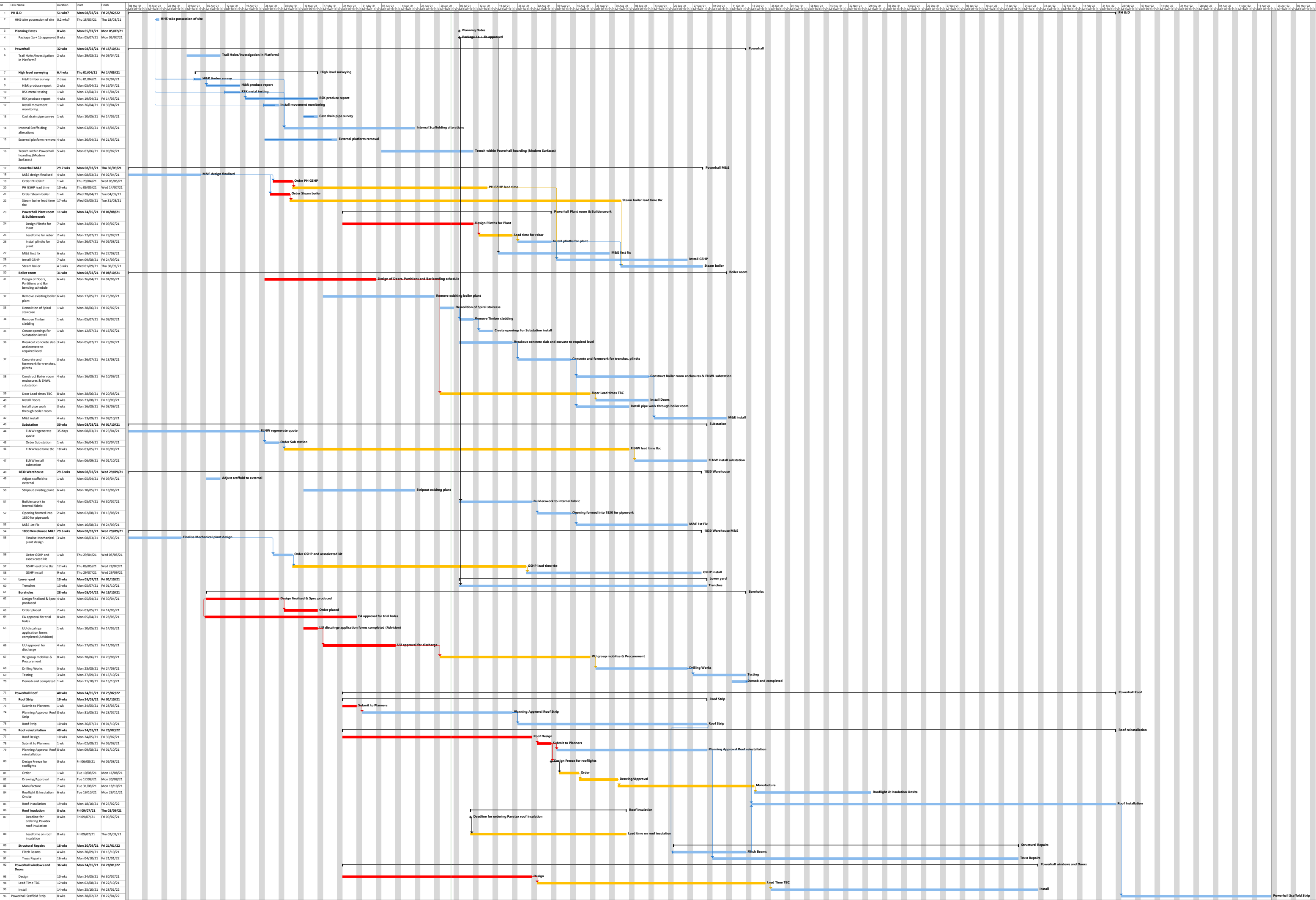
Proposal;/ NOTES

- Delivery times will be restricted to before 10am when the museum is open.
- Delivery restriction in place to avoid disruptions to local business & surrounding residents.
- All contract/ operative deliveries MUST be arranged & agreed with the site manager or site supervisors.
- Prior to deliveries accessing the site suitable arrangements will be made for the vehicle to be guided to & from site by banks man.
- Delivery procedure will be issued to HH Smith's supply chain involved in the project.
- A copy of the approved TM plan will be issued to the council & highways for comments.



Appendix 5 Programme

SIM PH & D - Draft Construction Programme for Comment REV C 02.07.21





Appendix 6 Risk Assessment & Method Statements

Risk Assessment Method Statement COSSH Information Operative Briefed Register 11

Site: **SIM, PH & D**

Task: **Roof Strip**

Start Date: **TBC**

Duration: **TBC**

Labour: **Various HH Smith**

Assessor: **Juan Crous**

Issued By: **Juan Crous**

Issue	Date	Comments
1	26/05/21	Initial Issue

Below is the amendment record for minor or non-material revisions or amendments that do not warrant a full re-issue of the document. All such amendments are highlighted.

Amendment No	Date	Amendment	Page/s

H.H. Smith & Sons Co. Ltd.



Site	SIM – PH&D											
Date	26/05/21				Review Date	N/A			Assessor	Juan Crous		
Task	Roof Strip											
Item	HAZARDS	WHO IS AT RISK	L	S	Risk	CONTROLS	Residual Risk					
							L	S	Risk			
1.	Working at Height (tower Scaffold) Risk of workers falling from height	Operatives	5	5	25	1. Tower scaffold Platform to be erected by competent person for safe access and egress to works. 2. Suitable edge protection at all times. 3. Scaff tag to be used, display whether tower is incomplete etc. 4. Platforms can only be erected, altered or dismantled by a competent person. 5. Platforms to be inspected before first use and findings recorded and kept on site, use scaff tag at all times. 6. For more details please see Company arrangements for Working at Height, & Tower scaffold.	1	5	5			
2.	Materials falling from height Operatives under work area struck	Operatives General Site operatives	4	5	20	1. Work area will be fenced off prior to works commencing if possible. 2. No workers to access area underneath the platform, plant whilst works are being carried out at height. 3. Erect toe boards or debris netting to stop materials from falling 4. Tie equipment down to reduce the risk of falling.	1	5	5			
3.	Manual Handling Risk of strain to workers	Operatives General Operatives	4	3	12	1. No employee to lift any object he does not feel comfortable with lifting. 2. If workers do not feel comfortable lifting object, use lifting aids or extra operatives to help with lift. 3. Wear gloves when handling timber.	1	3	3			
4.	Use of 110V electric reciprocating saw Risk of lacerations or loss of limbs	Operatives	5	5	25	1. Only competent person to operate saw. 2. Unplug saw when replacing blade. 3. Operative must always cut away from body/ limbs, do not use foot or any other part of body to hold or stabilize materials being cut as the saw can jump when cutting. 4. Inspections/ pat certificate supplied with saw from hirer, check and request if not on site. 5. Saw must only be used as per manufactures guidelines/ instructions.	1	5	5			

5.	Dust Risk of workers inhaling hazardous dust	Operatives	5	3	15	1. Workers cutting or creating dust to wear respiratory protection. 2. Operatives face fit tested. 3. Where possible cutting works will be done outside where natural ventilation will be suitable. 4. If cutting is inside & ventilation is poor (dust gathering on equipment etc, dust hanging in air) use suitable ventilation equipment to extract dust and filter air.	1	3	3
6.	Working with electrical equipment Risk of electrical shock	Operatives	4	4	16	1. Where possible hand held/ battery operated equipment will be used. 2. Only 110V equipment to be used on site. 3. Hired equipment inspection documentation to be kept on site at all times. 4. HH Smith equipment will be inspected as required.	1	4	4
7.	Slips, trips and falls Risk of workers suffering from cuts.	Operatives General Operatives	4	2	8	1. Clean works areas after each work shift. 2. Materials to be stored away from access routes 3. All nails removed from wood when stripped back.	1	2	2

Calculation of RISK LEVEL - <u>L</u> ikelihood x <u>S</u> everity = Risk (score)			
Likelihood is	1 could never happen, 2 very unlikely, 3 Possible, 4 likely, 5 very likely		
Severity is	1 very slight, 2 minor, 3 significant, 4 major, 5 fatal		
Score	1 -9 = Low	10 – 18 Medium	19-25= High

Strip slate roof

Location of works:

Power Hall roof, Science & Industry Museum, which is a Grade II-listed building.

Brief Description:

A Risk Assessment (find attached) has been carried out in order to assess the risks to employees posed by stripping a slate roof.

The arrangements will take in account the required legislations.

Sequence of works:

On arrival at site operative to park in designated car park and report to the site office for a site induction immediately.

METHOD – WORKS

Recording

1. The roof will be fully photographically recorded prior to any works; along its length and each slope in sections.
2. Roof to be fully surveyed to record height difference along the length.

Methodology for the monitoring of soft strip for above-ground built heritage (Donald Insall Associates)

1. All necessary approvals are to be obtained before commencing any intrusive works on site;
2. The agreed methodology will be reviewed with the contractor to agree the proposed programme, site visits and the use of 'hold points' for any findings requiring further discussion with MCC;
3. Photographs of all areas to be removed as part of soft strip carried out before commencing any intrusive works on site;
4. Photographs of all areas to be removed as part of soft strip carried out during works. Logs will be made to record any significant discoveries;
5. Photographs of all areas to be removed as part of soft strip carried out following works;
6. Relevant photographs and logs of the soft strip will be collated into a report and deposited in the SIM Archives and shared with MCC.

Structural monitoring works

As the roof finishes are stripped from the structure it will undergo a slight upward movement as the load on it is gradually reduced. This is expected and normal and gives no cause for concern.

The reduced roof load will lead to a corresponding reduction of the friction resistance that helps prevent the truss bearings from sliding, and there is a small risk that outward or inward lateral movement of the roof and/or wall could occur at some of the truss bearings. Due to the superior connection of the trusses to the columns the risk of possible movement at those locations is low.

To enable detection of any unexpected or excessive movement that might occur beyond agreed threshold levels as the roof finishes are removed movement monitoring equipment producing remotely accessible data in real time has been installed at the wall and column heads along the full length of the Power Hall. The movement monitoring data will be reviewed on a daily basis and if any concerning data is observed the relevant works will be halted and the relevant area of the structure inspected by the structural engineer and contractor. Works will only be allowed to proceed following the approval of the structural engineer together with the implementation of any mitigation measures that may be necessary.

Protecting historic fabric

Original roof structure and cast-iron columns will be protected with a combination of correx sheeting and timber hardboard. There will be no fixings into the existing structure. This will protect against any falling objects during the strip. However, priority will be to prevent through careful working by operatives.

The Historic Machines below will be protected from the works by scaffold crash deck.

Skips will be placed within the hoarding and sat on plywood boards to prevent any damage to cobbles. The access routes into the building and to the skips will also be protected by plywood.

Materials to be stripped (the majority are modern and date from 1979-onwards, except where stated):

- Rooflights
- Ventilation cowls
- Slates (some reused historic slates)
- Batten and counter battens
- Any felt/roof membrane
- Insulation board
- Gutter linings including lead work
- Modern Rafters
- Gutter supports
- Redundant high-level pipework

Removal of roof lights

Roof lights removed from underside, accessed via the crash deck.

Light weight tower scaffold constructed on the scaffold crash deck to be used for access.

Remove panes of glass one at time, carefully lifting to crash deck.

Remove rooflight framework by cutting using a electrical hand saw. Care to be taken when cutting near to slates / timber roof structure / cast iron columns to ensure historic fabric is not damaged.

Waste will then be transported to the ground floor via a series of shoots/lifts installed in the crash deck. From there carried to the skips externally using all terrain trolleys. Where passing over historic cobble's plywood sheeting will be used to protect them.

Removal of Slates

Ideally the existing roof finishes will be removed (and the new ones installed) in a balanced manner from ridge to eaves on all pitches simultaneously to avoid a scenario where one pitch is fully or mostly stripped before the others. Such a temporary arrangement of the roof finishes could generate asymmetrical stress distributions within the truss members, and at their bearings, and could exaggerate the roof structure distortions that we know will occur during the strip out/renewal works.

Strip main slate areas using slate ripper tool taking care not to damage slates and ensure as much as possible is reusable. Slates that are to be reused will be determined by specialist slate salvage company. Some slates will be damage when remove the fixings and some slates will not be reusable due to weathering. Load slates carefully by hand into hand carts on the crash decking. Move slates across the scaffold crash deck to the New Warehouse side of the building using the carts.

From there, carefully transport slates by hand and stack on slate pallets on the scaffold loading bays.

The section of diminishing slates is to be photographically recorded prior to removal and marked up in order to be identified clearly at a later date for reuse on the hip ends.

All cuts to be retained and stored separately to increase % reclaim and reduce wastage. And wastage will be recycled and likely used in road replacements.

Pallets to be securely wrapped and lifted down from loading bay and stored safely onsite.

Removal of Ventilation Cowls

Once the slates have been removed and the base of the cowls are fully exposed. Cut out using a metal grinder. Care to be taken when cutting near timber roof structure / cast iron columns to ensure historic fabric is not damaged.

Removal of roof build up

Batten, counter batten and insulation to be removed sectionally following slates in phases as this provides

fall protection whilst working.

Battens removed by pulling out fixings using combination of crow bars, claw or pry bar.

Any felt or membrane is to be lifted following removing of fixings.

All materials to be moved to loading bays on scaffolds where they will be disposed of into a skip via shoots.

Removal of lead flashings to gutters

To remove lead flashing where fixed into masonry, chip out the mortar holding it in place using a Plugging Chisel and Club Hammer. Strip out the section of old flashing and clean out the mortar joint using a wire brush

Pry up the internal edges of the flashing with a small prybar carefully, care to be taken around stone and brickwork.

Move to loading bays and lift to ground. This will then be recycled or sold for reuse.

Removal of Central valley Gutter

Once the valley gutter has been exposed sufficiently cut out flashing using a small grinder. Remove sections of aluminium gutter in sections. Work from the plant deck to ensure the care is taken to avoid any damage to the historic roof structure.

Removal of Modern Rafters and Gutter supports

Following the removal of the above a survey will be completed with Donald Insall to establish which rafters and gutter supports are modern. A full photographic survey will be completed to record the location of the modern rafters and gutter supports.

Access to remove these will be from the crash deck and where necessary from a tower scaffold on top of the crash deck. The surrounding structures will be protected with correx and timber hardboard.

Remove Redundant High-level Pipework

Live Services

Prior to any strip out of the fabric of the building all the services will be isolated, drained/ purged by a competent person.

It will be arranged that services contractors will attend site at the start of the project to make the building safe for strip out.

Electrical services

The electrical services to the plant will be isolated & stripped back by a competent electrical contractor.

Gas service

A competent contractor to isolate the gas back to the incoming main for the building. Once isolated the pipe work will be purged ready for HH Smith to strip back.

Water Service

Water will be isolated & drained off.

Fire Alarm

Fire alarm to be left live & operational during the project.

HH Smith will use break glass points & alarm as mean of raising an alarm in the event of an emergency/ fire.

Air con units/ Refrigerator etc.

Competent contractor to degas any units & issue a degas/ consignment note.

All services must be presumed live until proven under wise by a competent contractor.

All Contractors RA & MS will be issued & on site prior to them starting works on site.

Removal

Protection will be installed to all historic fabric within proximity of the plant to be removed, including exit routes leading to the skip.

Each item to be removed will require a sign off sheet to be completed prior to commencing. This will require sign off from Max Fordham and SIM Estates as well as M&E contractor.

Once sign off completed and protection installed, the pipework will be unfixed from structure Hand tools would be used in areas in close proximity / interfaces with historic fabric. From there it will then be cut up into smaller sections using metal saw or dismantled with hand tools. This will allow the smaller sections to be manually carried out of the building and disposed of in a skip (as above, these routes will be reviewed and adequate protection provided to historic fabric).

Health & Safety

Use of tower scaffold

A tower scaffold will be used below the work area as a working platform where required.

The surrounding structures and access/transport routes will be protected with correx and timber hardboard prior to transporting and erecting the tower scaffold.

A tower scaffold to be erected by competent operatives with the relevant qualifications.

Tower to be inspected before first use and findings recorded on the scaff tag attached to the tower.

Tower to be inspected daily and the findings recorded on the scaff tag attached to the tower every 7 days.

Tower to be inspected & findings recorded on the scaff tag after any alterations to the tower.

Tower must have toe boards and edge protection at all times.

Tower will be footed on the crash deck.

Once tower has been erected works can commence.

Housekeeping

Operatives will be briefed on the site waste management arrangements at the site induction.

All waste (packaging, off cuts, rubble etc.) created by work tasks should be kept in one place within works area ready for collection & disposal.

Waste should be collected in suitable containers & disposed of in skips.

Operatives must clear/ clean work area and surrounding areas from any unwanted materials & rubbish after every work shift or on completion of a task.

Do not store any materials or equipment on access routes or emergency escape routes.

Keep extension cables & trailing leads to corners of building at high level.

Pedestrian/operatives Access Arrangements

The site manager to agree a safe access route to the work place.

HH Smith operatives must only use the access routes as agreed with the site manager.

PPE requirements

The following PPE is a standard minimum requirement on site & must be worn at all times. Further PPE may be required as identified within task specific RA requirements.

HH Smith work areas;

- Hard Hat
- Hi visibility vest
- Safety footwear with steel mid sole & steel toe cap
- Trousers that cover legs (no shorts/ $\frac{3}{4}$ trousers)

Permit to work / Inspections

Various permits required as per RA & MS.

Task/ equipment

Any type of hot work including, welding, flame cutting, abrasive wheel creating sparks or excess heat, soldering etc.

Tower scaffold

Permit/ inspections required

Hot work permit

Tower scaff tag

Hazardous materials within building

Site manager to advice on Asbestos materials within existing buildings.

No works to commence unless a refurbishment & Demolition survey is on site or asbestos removal certification confirming that asbestos materials are not within work areas.

HH Smith operatives have attended a 1 day asbestos awareness course.

Equipment / Machinery needed (PPE required)

Equipment / Machinery

Tower scaffold

Recip saws

Timber

Hand tools

PPE Requirements

Standard Site PPE, Gloves

Standard Site PPE, eye protection & ear protection

Standard Site PPE, Gloves

Standard Site PPE, gloves

Specific Training Arrangements for equipment/plant

HH Smith Operatives to report to the site office for a site induction.

Equipment / Machinery	Specific training
Manual handling	0.5 day awareness course.
Asbestos	0.5 day awareness course.
Tower scaffold	PASMA Use as per manufacture instruction & guidance.
Recip saws	As per RA & MS Use as per manufacture instruction & guidance.
Hand tools	Use as per manufacture instruction & guidance.

COSHH Info

Timber Dust – Respiratory protection

First Aid Arrangements

Operatives will be briefed on the first aid arrangements & first aider on site at the site induction.

HH Smith Site manager & various others on site have attended a 3 day first aid at work course.

The details of the first aider & directions to nearest A&E will be displayed within the site office & canteen notice boards.

Welfare Arrangements

Operatives will be briefed on welfare arrangements at the site induction.

Operatives can use the existing welfare on site.

The W/C facilities must be kept clean, maintained and left as previously found!!

Emergency Procedures

Operatives will be briefed on emergency arrangements at the site induction.

Operatives must adhere to the emergency procedures at all times.

All Fire Escape/ break glass points/ alarms MUST be maintained at all times, do not store any materials or equipment in front of escape doors or on emergency escape routes.

Contact details

Role/ Responsible	Company Details	Contact information
Managing Director	HH Smith & Sons Co Ltd Rear of 95 Bury old Road Whitefield Manchester M45 7AY	Contact: Dave Smith Mob: 0161 280 3509 Email: info@hhsmith.co.uk
SHEQ Manager	HH Smith & Sons Co Ltd Rear of 95 Bury old Road Whitefield Manchester M45 7AY	Contact: Juan Crous Tel: 0787 295 2425 Email: jc@hhsmith.co.uk

H.H. SMITH
 & SONS CO LTD
 BUILDING YOUR HORIZONS

[illegible]

Name: _____ Signed: _____ Date: _____

RA, MS & COSHH Assessment Register

In signing this form I the undersigned confirm that I have been briefed on all aspects of the forthcoming work and fully understand the method of work and associated risk and that I have been briefed on all Site requirements and relevant PPE relating to the task.

Name of Operative	Signature Operative	Date

Site Supervisor declaration

I _____ as designated supervisor/manager can confirm that I have briefed the above operatives in all aspects of the method statement, risk assessments and the Site Health, Safety & Emergency Rules.

Signed: _____ Date: _____