Demolition Method Statement

Location: Herbert Street, Manchester, M8 0DG

Method Statement for the demolition of building at Herbert Street, Manchester, M8 0DG

Plan of Work Revisions

The site supervisor is only authorised to make alterations to or deviations from this method of work when agreed with the project manager. A record of any alterations or deviations made by the site supervisor must be kept on a record sheet for return to the office and all operatives informed.

Site Operatives / Supervision

Copies of CITB/CPCS cards & training certificates for all personnel are to be kept in site cabin.

Title	Name	Contact Details
Site Foreman		
First Aider		
Fire Marshall		
Project Manager		
Plant operator		
Demolition operative		
Demolition operative		

Plant and Equipment

All plant and vehicles will be parked in designated areas and immobilised at the close of works each day. All keys are to be removed at all times when not in use.

Plant / Equipment	Checks by
High reach 360deg excavator including attachments	Machine operative

Security of Plant & Equipment

All Plant and vehicles will be parked in designated areas and immobilised at the close of works each day. All keys are to be removed at all times when not in use.

Storage of Highly Flammable Liquids / LPG

Open air compounds will be set up for the storage of fuels and LPG. They will be sited at least 10m from any building and be secured. The floors of the storage area will be well compacted and kept clear of any other flammable materials and waste. COSHH Procedures in place and adequate signage. Adequate fire fighting equipment and spillage kit at hand.

Site Tidiness

Site to be kept tidy and materials to be segregated and stockpiled as work progresses.

All walkways and access to working areas are to be kept clear of trip and slip hazards. Good housekeeping must be maintained throughout the works and regularly monitored and inspected.

Ongoing Operations

Vehicles to be halted at site entrance and then guided onto and off site. Dirt and debris will be cleared immediately.

Adequate precautions will be undertaken to prevent the spreading of dust, including periodic spraying as required.

All barriers and signs etc will be constantly checked and maintained before and during each working day by the Site Foreman.

Environmental

Dust and noise will be monitored during the course of the works. It is accepted that noise cannot be eliminated entirely, but reasonable steps will be taken to reduce any adverse effects of noise generated by the works. Reasonable steps will be taken to reduce dust by water suppression as required in the form of water spraying and spill kits as necessary.

Emergency Procedures

Muster point for emergency procedures will be at the site entrance and alarm will be raised via a claxton horn sounding.

Specific requirements and procedures will be explained to each operative visitor at site induction. Visitors who are not working at the site will not require inductions. They need to be informed of the muster point, see the Fire Plan & Procedures and site traffic management & layout plan for location of muster point.

Responsibilities for Safety Control & Monitoring

Site Foreman must ensure a site induction is carried out for all operatives prior to commencement on site. During site induction all personnel will be made aware of the Specific Working Methods, Site Rules, Accident Reporting and Site Emergency Procedures. These will be adhered to at all times. Weekly toolbox talks will be given and recorded on site. SHEQ Manager is to conduct regular inspections and audits, copies will be left in site file.

Toolbox Talks

- Dust
- Noise
- Housekeeping
- Manual Handling
- Working near Electricity

- Working at Height
- Asbestos Awareness
- Others (please state)

Permit To Work

- Asbestos
- Hot Works
- Electricity
- Other (please state)

Temporary Works

- Standard Scaffold
- Hoarding and fencing up to 1.2m high
- Simple propping systems – 1 or 2 props
- Other (please state)

Operations & Risk Assessments

OPERATION No. 1 – Set Up Site
Confirm service cuts
Confirm asbestos clear building

Note:

- **Written confirmation must be provided by the service provider (for water, electric and gas) prior to work commencing.**

- **Asbestos clearance certificate to be available on site prior to work commencing.**

Erect fencing to block off rear of buildings by extending existing fence lines. Place warning signs of intended demolition to existing gates and site fencing. Receive and emplace site cabin / office and toilet facilities.

Hazards Identified: -
1.1. Electric Shock / Explosion
1.2. Head and Foot Injury
1.3. Manual Handling
1.4. Cranage of heavy cabins
1.5. Knockdown Hazard

Control Measures: -
1.1. No work to take place until services are confirmed isolated (written confirmation only). Detailed work method briefed to all site workers. “Live” areas marked off and warning signs placed in correct location. Competent staff working in conjunction with approved method statements and risk assessments.

1.2. Hard hats, safety footwear, hi-vis vest and gloves to be worn at all times. Good housekeeping, supervised employees and regular site inspections. All other PPE will be defined in the risk assessment for the activity.

1.3. 20kg maximum weight for repetitious lifting of materials. Above 20kg mechanical aids or teamwork to be used. Minimise handling by storing materials close at hand. Operatives must have a valid manual handling certificate and follow procedures in place. Staff induction training and attend regular toolbox talks.

1.4. Adequately rated lifting equipment with Supervision. Safety awareness training to all employees on site. Banksman to be present.

1.5. All operatives to wear high visibility vest / jackets. Reversing manoeuvres to be supervised by banksman at all times.

OPERATION No. 2 – Erection of Scaffold.
Full height independent access scaffold to be erected by Scaffold Company. Scaffold to be tied into existing structure.

Hazards Identified: - see Scaffold Companies Method Statement/Risk assessment
2.1. Falls from height / Risk to others below

Control Measures: -
2.1. Erection by competent and experienced persons under competent direct control and carried out in accordance with statutory requirements and Code Of Practice, to satisfy design criteria (load usage etc). Secure area below during erection. Operatives must be competent and have undertaken; Safety induction, toolbox talks, adequate supervision, PPE are all to be provided prior to commencing working at height.

OPERATION No. 3 – Soft Strip
Operatives using mechanical hand held tools will strip out loose furnishings/fixings. Operatives will remove trunking, pipework, lighting, roof sheeting and falsework. Internal strip of doors, windows, masts, external lighting and dry walls to be removed. Lighting and trays will be stored for reuse on other projects.
Resulting debris / scrap will be loaded through doorway apertures before loading into skips for disposal to licensed facility. Any material from height will be dropped into clearly marked and segregated dropping zone, which will prevent personnel access.

Hazards Identified: -
3.1. Cuts to hands / puncture wounds / vibration
3.2. Fire risk from unauthorised persons
3.3. Risk to others below during dropping zones
3.4. Discovery of suspicious material
3.5. Working at height
3.6. Slip and Trip hazard

3.7 Discovery of needles
3.8. Contamination of waste

Control Measures: -
3.1. Gloves to be worn, trigger times to be noted and obeyed
3.2. Firewood to be pulled back from building to avoid unauthorised lighting and skips containing same will be moved daily.
3.3. Dropping zones will be clearly defined and marked out using high visibility tape / heras fencing and look outs.
3.4. Operatives carrying out stripping out works will take special care during this part of the works in encountering suspicious material (Asbestos based material).
If any suspicious material is encountered during the strip out, then work in that immediate area will cease until such time that the material is identified. If Asbestos is located then the area will be sealed until such time that it is removed by competent and licensed contractors.
3.5. Working at height using genie lift and operatives secured to lift using harness. Operative to remain inside the lift barriers.
3.6. Good house-keeping to be maintained. Walkways and emergency exits to remain clear. Areas around mess facilities to be swept daily.
3.7. Assessment of areas prior to work in immediate area. All the necessary PPE must be worn. Toolbox talk given prior to works commencing on procedures in place if hypodermic needles are encountered. Records kept on location of any needles found. Team briefs to be conducted regularly.
3.8 Separate designated skips to be in place and toolbox talks undertaken to aid understanding of use.

OPERATION No. 4& 6 – Hand Demolition
Operatives using hand held tools and ox/propane cutting torch will remove metal sheets to roof and drop same inwards onto building floor. This work will proceed until stripping work is down to eaves level. Purlins fixed into gable will be cut through to allow gable truss to be cut into small manageable pieces and dropped inwards onto warehouse floor. When truss is reduced to eaves level, scaffold will be reduced below eaves level and all scaffold ties will be re secured. This work will enable machine demolition to progress.

Steel frame to be cut from roof level down, structural engineer to define sequence of cutting where required. This information to be contained in cutting works MS/RA.

Hazards Identified: -
4.1. Inhalation of dust
4.2. Access to working areas
4.3. Debris deflecting through scaffolding onto persons / walkways / highway
4.4. Stability of scaffold as structure is worked down
4.5. Overloading outer walls with resulting debris
4.6. Falls inwards by operatives when walls are reduced

Control Measures: -
4.1. 88/10s half face masks (disposable) and goggles will be worn as required. Dust suppression techniques as required.
4.2. Access to roof areas will be via ladders fitted through scaffold.
4.3. Scaffold will be fully covered with debris netting before demolition commences. The base of the scaffold will be hoarded off using Heras fencing to adequately protect the public and deter trespassers.
Pedestrians will be guided off the footpath into a clearly marked out pedestrian route. As laid out in the specification, windows at ground level will be boarded off to prevent debris deflecting through same.
4.4. Scaffolding will be reduced in height by scaffolders as hand demolition progresses and all ties re-secured.
4.5. Debris to be thrown back from outer wall structures to avoid overloading against same.
4.6. If walls are to be reduced below one metre from working platform then safety harness are to be worn by operatives and secured to scaffold to prevent falls inwards.

OPERATION No. 5 – Machine Demolition

High Reach 360° demolition machine will be brought to site and commence machine demolition. Roof trusses will then be cut through and lowered down to ground floor for processing. External walls to be pulled/pushed inwards in small sections.

Resulting material to be stockpiled outside when processed in readiness for removal in 30cyd roll on roll off skips. Outer walls will be cut through using scrap shear and lowered down inside footprint of building before loading into large roll in roll off skips.

Hazards Identified: -
5.1. Hazard of crushing by partly demolished structures and injury from flying debris
5.2. Noise/Dust
5.3. Stability of outer walls
5.4. Risk to public and unauthorised persons
5.5. Falls by machine through basements/cellars
5.6. Quick Hitch attachment
5.7. Eye damage
5.8. Fire risk.

Measures: -
5.1. Machine operator and site foreman to inspect each day prior to machine demolition to ensure property is free from personnel and equipment. All apertures to be boarded up to prevent debris deflecting through same.
5.2. Ear defenders will be worn as required. Works to be lightly sprayed with water during machine demolition if required.
5.3. Party walls to be left raked back at first level to assist in support. Outer walls to be pulled/pushed inwards in small sections to avoid unnecessary dust and vibrations.

Nothing higher than single storey to be left unsupported during works and all structures to be left safe and in stepped fashion if left overnight.
5.4. Look outs to be in attendance during demolition of outer walls. All look outs to be in full view of machine driver.
5.5. Site investigation prior to machine demolition to identify any basements. (none apparent from inspection of site.)
5.6. Machine operatives to hold current licence to drive category of machine and hold current training certificates for safe operation of Quick Hitch Attachment. Copies of licence and current test certificate for plant to be stored in site office.
5.7. Suitable PPE as defined by the risk assessment to be worn.
5.8. All "Hot works" to cease at least one hour before end of working shift. Site foreman to inspect immediate area prior to leaving site to ensure that any embers are not left smouldering. Adequate fire fighting equipment to be at hand.

OPERATION No. 7 – Site Clearance and Recycling / Disposal of Waste
The site will be left level with surrounding levels and free from loose rubble.
The Contractor is to approach the treatment of demolition waste through the employment of an internal or external specialist waste management contractor in order to collect and segregate the waste at the transfer station.

Suitable arisings (brick, concrete, stone etc) shall be sorted and stockpiled on site for subsequent crushing on site to 6F2.

When dismantling elements such as the roof, steel sheet cladding, pipework, cables, steel structural members, timber etc, the Demolition Contractor shall arrange for these to be segregated on site, and subsequently salvage for recycling.

Hazards Identified: -
7.1. Knockdown hazard from heavy lorries visiting site

Control Measures: -
7.1. Guides will be used to assist heavy Lorries in reversing manoeuvres on site. Entrance to the site will be kept secure at all times. All operatives to wear high visibility vests/ jackets and are excluded from working within a 25metre radius of operated plant.

Working Hours
We are aware that the demolition work is controlled by the Council under Section 60 and 61 of the Control Of Pollution Act 1974., and Section 80 / 81 of The Building Act 1984 through the Demolition Notice process.
The working hours will take place as outlined in the Decision Notice.
Provisional working hours for all demolition works proposed to be:
• 8am – 6pm Monday – Friday
• No working on Saturdays, Sundays or Public Holidays
• Deliveries to/from site will be within off peak times
All demolition removal from the site shall take place during off-peak hours within the agreed working hours.

Any work undertaken outside the agreed working hours shall not be undertaken without prior agreement from the Local Authority.

Access (Vehicle & Traffic Management)

The purpose of this section is to establish the procedures to be adopted in the management of vehicular and pedestrian access and egress to site. The safe access and egress to the site for labour, plant and vehicles is paramount on this project due to the location and traffic routes in the area. A logistics regime will need to be implemented to cope with the constraints of the site, ensuring that the effects on neighbouring parties and the general public is minimal and that their safety remains paramount.

The key aspects to be covered include:
- Primary Routes
- Designated vehicular access routes.
- Designated pedestrian access routes.
- Site hoarding demarcation boundary
- Site security post
- Vehicular / pedestrian demarcation barriers
- Turning circle area for site traffic
- Key signage placements
- Off-loading areas

Health, Safety Legislation and Guidance

The key legislation and guidance in respect to traffic management and logistics that can be referred to alongside this plan includes:

Key Legislation
- Construction (Design & Management) Regulation 2015
- Provision and Use of Work Equipment Regulations 1998
- Lifting Operations and Lifting Equipment Regulations 1998
- Health & Safety (Safety Signs & Signals) Regulations 1996

Key Guidance
- The Safe Use of Vehicles on Construction Sites [HS(G)114]
- Protecting the Public - Your next Move [HS(G)151]

Vehicle Types

Numerous types of delivery vehicles will be used to bring materials to and from site. These include:
- Skip lorries – approx. size 9.1m long x 2.6m wide
- Flat bed vehicles – approx. size 10.0m long by 2.6m wide
- Low Loader (Crane / demolition rig delivery) – approx. size 15.6m long by 2.6m wide

Vehicle Access

Material deliveries to, and removal from, the site will be made via the A road network of the A3220 West Cross Route and A402 Holland Park Avenue, together with the proposed vehicle routing for ingress / egress into the site via the existing gated access point to the east boundary.

Generally materials will be loaded within the site boundary from the designated waste materials storage area or building as promptly as possible. For larger items, these will be hoisted directly from the demolition area onto the vehicle, i.e. large sections of steelwork, glazing.
In order to minimise disruption on local traffic deliveries and collections will be restricted to outside of peak traffic hours, as set out under Section 11.0.
With the A road network being a main thoroughfare through the area, a strict delivery / waste collection procedure will be implemented to ensure main routes and surrounding roads are not over run with site and waste collection vehicles.
All subcontractors and suppliers will be required to give a minimum of 48 hours' notice of deliveries and all sizable vehicles to site must be booked in and scheduled with the site management team.
The movement of materials and site access will be controlled by a Traffic Marshall / Banksman under the Site Managers control. Access and egress routes will also require progressive clearance using brooms, shovels, wheel barrows and wheel wash facilities.
The Demolition Contractor shall encourage all sub-contractors to use public transport to travel to site. All site operatives will be informed that parking is very restricted in the local area and that resident parking bay are not to be used.

Method Statement Compliance

We the undersigned, have read and fully understood this method of work. Any queries, problems or areas not understood have been discussed and clarified with the site supervisor/ project manager as appropriate prior to signing below.

NAME SIGNED

Name	Signed	Date