Penarth Heights Demolition (Noise & Dust) Mitigation Statement

ON BEHALF OF CREST NICHOLSON (SW)

FEBRUARY 2007

LAWSON GROUP

Crest Nicholson (SW) Ltd
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Draft Method Statement

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The method to be adopted for asbestos removal, soft strip and demolition is to be as follows;

1. General

All site and visiting personnel are to be inducted with respect to site safety and are to sign the induction register.

All operatives' tasked with the demolition works are to read and sign this method statement.

Personnel Protective Equipment (PPE) consisting of Hard Hats, Hi Visibility Vest, Safety Boots will be worn at all times. Gloves, eye and ear protection will be worn when necessary.

All operatives will be trained to CSCS standard as a minimum.

At least one first aider will be on site at all times.

Ensure all employees and contractors are conversant with the company health and safety policy and specific method statement, a copy of which will be available for inspection in the Site Office.

All site operatives are to read and sign this site specific method statement and be briefed to the location of ACM's (Asbestos Containing Materials) and other hazardous materials that may be present.

The Site

Former residential flats.

Known Hazards

Close proximity to private housing.

Private dwellings that may be affected by demolition works will be notified by hand delivered letter.

Asbestos Containing Materials (ACM's) may be present on site.

Live services.

Termination of services to be confirmed in writing by Principal Contractor.

Treat all services as Live until proven dead.

If in doubt contact will be made with head office and further investigations with the services provider carried out.

Unauthorised access will be prevented by ensuring all access points and fencing are checked daily and made secure where necessary.

Buildings will be checked for the presence of unauthorised personnel prior to starting hand/mechanical demolition works at the beginning of each working day, following breaks and at the end of each working day.

2. Site Security and Access / Egress

Access to the site will be controlled at all times.

The boundary of the site or phases of demolition will be made secure with heras type fencing or similar.

All visitors to the site will be asked to report to the site office and sign the site visitors register.

Temporary heras fencing and gates will be installed to enclose the demolition zone prior to demolition works commencing.

Access / Egress points will be locked with a padlock and chain when not in use.

Emergency contact telephone numbers will be available within the site office and displayed on the heras fencing.

Access and egress points through the heras fencing to be clearly identified and signed with Site Managers name and contact telephone number clearly identified.

All site entry points to be made secure locked with padlock and chain, when not in use.

3. Site Set Up and Site Compound

Location of Welfare.

Form site welfare compound and separate site parking area with heras fencing.

This will be located in one of the existing car parks or hard standing areas to the front of the site , see site plans attached.

Site welfare is to be located away from demolition zone where possible and fenced off from the demolition works.

An area of the existing car park or hard standing will be allocated for site parking.

Welfare & Offices

Welfare for site will be a canteen with sink, hot and cold running water eating and seating area, microwave and separate drying room.

Soap and hand towels will be provided.

A kettle will be provided for boiling water.

Site office will be located within the welfare compound.

An area of the site office will be made available for site progress meetings and Training / Tool Box Talks.

Signing in book, accident book and first aid facilities will be located within the site office.

Toilet facilities will consist of a two in one unit for use by male, female site operatives and visitors, unit will plumbed into existing foul drainage system when possible or collected in a holding tank.

Existing water supply will be utilised to supply the on site welfare facilities.

A tagged stand pipe will be made available should this be required.

A fire point will be located at the site welfare facilities consisting of Fire Plan, Water Fire Extinguisher, Fire Blanket and Audible Fire Alarm.

A silenced diesel generator will provide power for welfare and site use.

Bunded fuel storage bowser will provide fuel for the site.

Fuel storage bowser is to be located away from existing drainage systems.

Welfare facilities may need to be moved as works progress to allow for the demolition sequence.

Display all relevant notifications on site office / canteen wall as follows;

F10.

F10 Notification of project to the Health & Safety Executive as Construction Design & Management Regulations 1994 and 2000.

Section 80.

Notification to local authority of project as the Building Act 1984 Notice of Demolition.

Insurance Certificates.

Crusher Licence.

Emergency contact numbers.

Accident procedures.

Site Rules.

Condensed Health & Safety Policy.

Existing services plan.

Site plan.

4. **Protection of Members of the General Public**

Private dwellings adjacent to the site will be notified of demolition works via hand delivered letter.

Schools in the vicinity of the site will be notified of demolition works and safety talks given.

Where the site is not already fenced heras fencing will be erected to secure the site boundary.

All access points onto site will be locked at all times when not in use.

Signage will be erected on the site hoarding warning of demolition works in progress.

5. **Accident and Incident Reporting as RIDDOR Regulations 1995.**

Reporting of accidents, incidents and dangerous occurrences procedures will be displayed on the site office notice board.

All accidents, incidents and dangerous occurrences will be recorded.

Site Accident Book B1 510 will be located within the site office.

Form F2508 will be used to notify the HSE of an injury or dangerous occurrence

Details, location and telephone numbers of nearest A & E Department will be displayed on the site office notice board.

6. Traffic Management Plan

Existing road systems will be utilised for site access and egress during the demolition works and a separate access for pedestrians.

All access points will be locked with padlock and chain when not in use.

Site speed limit will be 5mph.

Traffic Management Plan will be displayed on site office wall

7. Scope of Works

Site inductions and walk round of site.

Site set up.

Form welfare and site office compound.

Erect heras fencing to enclose the demolition zone.

Termination of existing services. By Principal Contractor.

Collection and disposal of any Hazardous/Difficult wastes, including fuels/oils.

Removal of asbestos containing materials should any be present.

Notifiable Asbestos removal by specialist sub contractor should any be present.

Soft strip of all non-structural fixtures and fittings.

Progressive mechanical demolition of structures.

Excavation of underground fuel tanks should any be present.

Cleaning and dismantling of fuel tanks should any be present.

Breaking & excavation of ground floor slab/footings and hard standings to a depth of 1 metre.

Processing suitable demolition arisings through mobile crushing plant.

8. Sequence & Method of Demolition

Works To Be Completed As The Following Sequence:

Should Hazardous Materials be Present on Site.

Registration of site with the Environment Agency

It is now a legal requirement under The Hazardous Waste Regulations 2005 that all sites producing hazardous waste must register their premises with the Environment Agency.

Lawson Group Ltd will register the site, the Environment Agency will issue a unique premises code which will be entered onto the hazardous waste consignment note which will accompany each load of hazardous waste leaving the site, see below.

Consignment Note Procedure

The following procedure will be followed for the safe removal and disposal of hazardous waste from site, Cement Bonded Asbestos.

Each waste bin of asbestos (Hazardous Waste) must be accompanied by a Hazardous Waste Consignment Note as The Hazardous Waste Regulations 2005.

There are three parts to the consignment note as follows :

Consignor or the producer of the waste.

Carrier the person collecting the waste.

Consignee the person receiving the waste.

Copy's of Consignment Notes will be returned to site for future reference and inspection.

9. Services

Isolation

Termination of existing electric and gas supplies outside the site boundary will be undertaken by the Principal Contractor.

Confirmation of termination to be in writing from relevant services provider via Principal Contractor.

Existing gas supply systems are to be purged prior to removal.

Services to remain will be located and positions marked on the ground and recorded on site survey drawings.

All main services that pass on or adjacent to the site will be treated as Live.

10. Hazardous/Difficult Waste Management

A Hazardous/Difficult Waste Survey will be conducted upon entering the property. Any Hazardous/Difficult wastes identified will be removed and disposed of by a specialist contractor in accordance with the relevant Regulations under the Environmental Protection Act 1990 Part II.

11. The Works.

Asbestos Containing Materials will be removed as the following Method.

Sample.

Removal and disposal of cement bonded asbestos.

Access to the exterior of the structure will be achieved utilising a Mobile Elevated Work Platforms (MEWP) and full body safety harnesses will be worn whilst work is progressing.

At no time will operatives leave the confines of the platform to access the roof structure.

If in doubt stop work and contact the site Supervisor or Manager.

As will be apparent from this site specific method statement it will not at any time be necessary to access onto the roofs always work from within the mobile elevated work platform provided.

Prior to and during the works, and where required, the materials to be removed will be sufficiently dampened with water spray to prevent the potential release of Asbestos fibre.

All operatives will be issued with full PPE consisting of FFP3 dust masks, safety helmet, disposable overalls, safety Wellingtons (to allow for cleaning), hand protection and eye, ear protection where required.

Contaminated disposable PPE(Gloves, overalls etc) and yard brushes used for this work will be placed into polyethylene Asbestos waste bags for disposal with other Asbestos waste which arise from the work.

Prior to and during the removal of cement bonded asbestos roof sheets and tiles personal and background air monitoring will be carried out by a UKAS accredited asbestos sampling company and all results made available for viewing.

Asbestos roof slate debris will be collected from around the site by hand prior to main stripping works commencing in order to prevent further contamination of the site.

Working from within Mobile Elevated Work Platforms (MEWP) provided and utilising hand held bolt croppers the roof and side cladding sheets fixing bolts will be cut.

By hand one at a time and keeping whole where possible the sheets are to be lowered into the MEWP taking care not to overload the work platform.

The MEWP will transport the cladding to a 40yrd asbestos waste bin.

CBA cladding sheets will be placed by hand into the 40yrd asbestos waste bin.

Removal of roof slates will be as above method by hand working from within the MEWP keeping tiles whole where possible.

Once the asbestos waste bin is full it will be covered with polythene and removed from site under a Hazardous Waste Consignment Note for disposal at a licensed landfill site within the locality.

Floor slabs will be swept clean and any CBA residue will be collected and placed into polyethylene asbestos waste bags in readiness for removal from site.

Demolition

All existing services to be terminated prior to soft strip works commencing.

Phase 1.

Initial soft strip of structures.
Asbestos removal.
Second stage soft strip.

Phase 2.

Demolition of structures with high reach and standard demolition equipment.

First Stage Soft Strip

Removal by hand of all non fixed fittings and fixtures and loose debris to enable asbestos removal to take place.

Operatives carrying out this work will be given a Tool Box Talk to make them aware of the location of ACMs.

Removal of Notifiable Asbestos Containing Materials (ACMs).

All notifiable ACMs will be removed by a licensed contractor in accordance with their Method Statement.

Second Stage Soft Strip

Existing services are to be terminated prior to soft strip commencing.

Herased fenced drop zones will be formed to allow the safe removal of soft strip materials from within the structures.

Commence soft strip on the top floor of each structure working progressively down through each floor.

Each floor will be 100% soft stripped.

Access points and stairwells will be kept clear of soft strip materials.

Temporary back ground and task lighting consisting of 110v transformers and tripod spot lights will be positioned through out the structures to be soft stripped.

Utilising hand tools remaining none structural and loose fittings and fixtures of buildings will be removed in readiness for demolition to include doors, door frames, skirting, suspended ceilings and plasterboard timber partitions.

Fluorescent light tubes will be removed intact and placed in the boxes provided for removal off site as hazardous waste.

Soft strip materials will be removed from the building and managed in accordance with the Site Waste Management Plan.

Existing access doors into the structure will be maintained during the soft strip process to enable the structure to be made secure at the end of each working shift.

Soft strip materials will be removed from the building as above method then utilising a 20tonne tracked excavator with mechanical grab attachment timber and metal arisings will be separated loaded into 40yrd waste bins for disposal at a licensed landfill site or metal recycling plant.

Mechanical Deconstruction

High Reach Demolition.

Water sprays will be positioned within the demolition zone and on the demolition excavators to control dust during the deconstruction works.

The water supply is not left running when not in use.

Utilising 360 degree high reach tracked excavators with MP15 multi purpose processor demolition attachments working from ground floor level deconstruction of the structure will commence working progressively into the structure working top down removing inner walls and outer brick infill panels then demolishing the structure one floor and one bay at a time separating timber and masonry elements as demolition progresses.

The excavator operator and demolition supervisor shall ensure that the structural support elements such as shear walls giving support are to remain in situ wherever possible until such time that all other structures taking support are reduced.

Demolition arisings will be utilised to form a ramp for the excavators to sit on during the demolition of the higher structures.

To eliminate the potential for a build up of demolition arisings on floors during the demolition process the machine operator will step back down each floor to produce a natural run off of materials.
In this manner the machine operative can maintain a clearer view of the live demolition face and pull / clear materials on each floor level as works progress.

Room by room and floor by floor the buildings will be mechanically deconstructed. The block and brick walls will be broke out and allowed to carefully drop onto lower floors. The

demolition excavator will remove debris falling on the floors as works progresses to avoid overloading of floors with debris.

Steel framed structures will be mechanically cut with hydraulic shear attachment and lowered to ground floor level where it will be processed and loaded into metal waste bins for removal from site for recycling.

Standard Demolition.

Where it will not be necessary to use high reach demolition equipment 35 and 25 tonne excavators will be utilised to carry out demolition as the above method.

At no time during the mechanical demolition process will operatives be working in the vicinity of the demolition excavators or structure being demolished.
Hand picking of demolition debris will be carried out upon completion of mechanical demolition.

Ground floor slabs/foundations will be broken out and excavated in readiness for later processing through the on site mobile crushing plant.

Site Waste Management Plan.

Demolition arisings will be appropriately segregated to form stock piles of concrete, brick and asphalt for processing through the on site mobile crushing plant.

Fluorescent light tubes will be collected by a specialist hazardous waste contractor.

Reclaimed metal will be sent to TBC.

Asbestos waste will be taken TBC.

General waste will be sent to TBC.

12. Resources.

A Neath, Projects Manager (Visiting).
D Carey,Health, Safety & Environmental Manager (Visiting).
C Quinnell, Demolition Supervisor.
P Satchell, Soft Strip Supervisor.
Demolition Operatives.

Welfare Facilities.
Cat 345 High Reach Excavators with demolition attachments.
Cat 330 Excavators with demolition attachments.
Cat 320 Excavators with demolition attachments.
Water Bowser
Telehandler
Skidsteer.
Temporary Lighting.
Mobile Crusher.
Loading Shovel.
Heras fencing.

This method statement was compiled by .....

I hereby declare I have read and understood the above method statement.

Signed by Site Foreman..... Date ;.....

Signed by Site Operatives.....

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