

DEMOLITION METHOD STATEMENT



Gaywood Green
Gaywood Avenue
Kirkby
L32 7PQ

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1.0 INTRODUCTION

1.1 The project relates to the demolition works that are to be carried out at Gaywood Green, Gaywood Avenue, Kirkby.

1.2 The buildings to be demolished are set out within site plan below:

- 4nr Apartment Blocks
- 5nr Garage Blocks



Figure 1: Site plan

1.3 The works of the buildings to be demolished are as follows: -

1.3.1 Service Disconnections. All have been undertaken by Livv Housing Group.

1.3.2 Pre Demolition and Refurbishment for notifiable and Non-notifiable works; however if any unforeseen potential asbestos containing materials are suspected/found within the buildings, structures and sub floor structures during the main demolition works, a suitably approved licensed Asbestos Removal Contractor will be contacted and all works suspended until the attendance of such a person.

1.3.3 Form site compound, set up welfare facilities, muster points and secure the site to be demolished, install protective measures within the existing site surface water drainage system to prevent contamination during the demolition process.

1.3.4 Carry out internal soft strip of the buildings, to remove deleterious materials.

1.3.5 Mechanical Demolition of the super structure down to ground slab level. The processing of all materials arising from this element of works which will be transported off site for recycling / disposal.

1.3.6 Demolition of all Garages that are located on site. Retaining Piers are to be constructed to walls which currently create a boundary to properties at the rear of Gaywood Close and Melbourne Crescent.

1.4 PROGRAMME OF WORKS

It is estimated that the demolition works will commence in May 2023 and will have a programme of around 8-10 months dependent upon the final method of demolition chosen by the incoming Contractor.

2.0 WELFARE ACCOMMODATION

2.1 Welfare facilities will be provided by the incoming Contractor to a standard that satisfies the HSE. On site parking will be minimal and a traffic management plan will be produced as part of the Construction Phase Health & Safety Plan once a Contractor is appointed.

2.2 The actual location of the welfare facilities together with staff / visitor parking will be identified on the Traffic Management plan contained within the Construction Phase Health and Safety Plan once produced by the incoming Contractor.

2.3 The Provision of site accommodation will be compliant with respect to the Construction (Design & Management) Regulations 2015.

3.0 WORKING HOURS

3.1 Working hours are to be agreed with local council.

3.2 Working hours in general are thought to be:

- Monday – Friday 08.00 am to 17.00 pm
- Saturday 08.00 am to 12.00 pm – in exceptional circumstances only. To be requested by the Contractor and approved by Client.
- Sunday no working
- The contractor is not to make any deliveries to or from the site between school 'drop off' and 'pick up' hours.

4.0 SERVICES

- 4.1 The client has made arrangements for all services to the site to be disconnected.
- 4.2 A CAT detector will be used by the incoming site supervisor to test for live underground electric cables prior to commencement on site and highlighted using spray marker.
- 4.3 All excavations are to be carried out in accordance with HSG47 – avoiding danger of underground services.

5.0 SAFETY

- 5.1 All necessary registers, accident books, diary, time book, test certificates, method statement, risk assessment, health and safety plan etc will be kept on site under the control of the incoming Site Supervisor and can be inspected at any time. All accidents are to be reported to and entered in the site accident book.
- 5.2 A supply of spare hard hats, overalls, gloves, goggles, masks, welders' gloves, face covering etc will be stored on Site.
- 5.3 At all times the appointed demolition contractor will ensure a high standard of Health and Safety is carried out, at all times, on site.
- 5.4 All operatives on site must wear full PPE in accordance with HSE requirements including safety boots, hard hats and a high visibility vests or coat and LEP (Light Eye Protection) as standard.
- 5.5 'No smoking on site' policy will always be adhered to.
- 5.6 Adequate segregation of pedestrians and vehicular traffic will always be maintained. Reversing of vehicles and plant will always be minimised. This will be highlighted on a site plan and will form part of the site induction for all operatives once a Contractor is appointed.
- 5.7 All works and management is to be in accordance with the Construction (Design & Management) Regulations 2015 and Control of Substances Hazardous to Health 2002 (COSHH).

6.0 SITE ESTABLISHMENT

- 6.1 The Contractor will erect a 2.4m Timber Hoarding around the perimeter of the site to enhance security provisions and to mitigate the spread of dust when the works are being undertaken. There are 2 secure Gates located on site which will provide access to and from the site.
- 6.2 Warning signs (as described below) will be displayed at the appropriate points around the perimeter of the site by the incoming Contractor:

- Danger Demolition in Progress
- Danger Demolition Keep Out
- Personal Protective Equipment requirements
- Warning to Children
- Key Contacts/ Emergency Contact Details
- Site Signboard

6.3 All visitors to the site will be asked to sign in within the site office of the incoming Contractor. They will always be inducted into the activities being carried out that day and whilst they are on site they will wear the required PPE and they will also be escorted by a member of the incoming Contractor staff.

7.0 ASBESTOS

- 7.1 Where asbestos is found onsite, a suitably approved licensed Asbestos Removal Contractor will be appointed to carry out the removal of all asbestos containing products.
- 7.2 The HSE will be notified under the statutory form on the Health and Safety Executive website www.hse.gov.uk of the intended asbestos removals that are to be executed on site.
- 7.3 All works will be carried out in accordance with the Controlled Asbestos Regulations 2012.
- 7.3 All method statements, Risk assessments and transit plans will be included within the CPHSP from the appointed Contractor.
- 7.4 No follow-on activities will be carried out until the Contractor receives air clearance certificates/certificates of re-occupation from the asbestos removal supervisor to confirm that the areas are safe to enter.
- 7.5 Livv Housing Group have undertaken Asbestos Surveys on all 4 Tower Blocks along with the Garages that are located within the site boundary. Asbestos has been found within all locations.

8.0 CABLE STRIP

- 8.1 From areas which are free of asbestos, all electrical cabling will be removed for recycling prior to soft stripping and the demolition of the structure.
- 8.2 No cable-stripping work will commence until the electrical supplies to the site have been irreversibly isolated either to the main distribution board by the local electricity supply company or from the main distribution board by a suitably qualified electrician. In either case an isolation certificate will be required and will be displayed within the site office.
- 8.3 Demolition operatives using hand tools will cut into manageable sections all exposed electrical cabling and any which are easily extracted but which are not

exposed. Large diameter electrical cabling is heavy, therefore it may be necessary to cut cabling into lengths of no more than 2 or 3 metres prior to moving it for further processing. Operatives are to exercise their judgement and experience when handling cut sections of cable to minimise the risks associated with manual handling.

- 8.4 Cabling in trays or otherwise present above floor level will be accessed using an appropriate method of access equipment. An exclusion zone will be created beneath the cable being cut-down using barrier tape to avoid the potential for anyone below the cable to be struck as it is allowed to fall to the floor. Consideration must be given to the possibility of a free end “whipping” due to self-weight.
- 8.5 Any circular saws used must be inspected daily and used only by trained operatives. The use of hand operated, hydraulic cable shears is preferred.
- 8.6 The removal of cable insulation and armour is to be undertaken using a purpose-built machine. Such machines have a number of safety features such as guards and remote emergency stops. All safety features are to be checked on a daily basis. None of the guards or other safety features are to be defeated or overridden. As with all machinery, long hair and loose clothing are to be securely tied-back to reduce the risk of the operator becoming entangled in the equipment.
- 8.7 All waste generated by the cable-stripping is to be disposed of appropriately, i.e.: sheathing is to be placed in a general waste skip.
- 8.8 Under no circumstances is the sheathing to any cabling to be removed by burning.

9.0 SOFT STRIP

- 9.1 An internal soft strip of the buildings will be carried out by demolition operatives once a Contractor has been appointed and will form part of the overall scope of works.
- 9.2 Materials that are to be removed by the internal soft strip can include doors, door frames, fixed and non-fixed furniture, carpets and floor coverings and other materials which obstruct the construction of asbestos removal enclosures.
- 9.3 Operatives will strip out all doors, frames, windows, timber of any description, (not appertaining to roof or main structure) toilets, pipe work, ducting, electrical items and any debris.
- 9.4 Any clean, unpainted constructional timber will be segregated from the general waste. Where this material is free of nails, screws, hinges etc it will be segregated for recycling. Any materials deemed as not suitable for recycling will be removed from site in skips as controlled waste to an appropriately licensed landfill site.

- 9.5 Where possible the materials will be loaded by hand method into skips and removed from the site. Where access for skips is not available the materials will be segregated and stored within the building where they will be removed at a later stage.
- 9.6 Once access for skips is available the materials will be loaded into the skips by use of the excavator and by hand method.
- 9.7 At no times shall operatives gain access to partially demolished or unsafe buildings to recover soft stripped materials, these materials will be removed by mechanical means and when safe to do so by hand method.
- 9.8 All soft stripped materials will be processed and segregated into individual waste/recycling streams. All materials deemed suitable for recycling will be loaded into suitable skips and transferred from the site to a suitable recycling venue.
- 9.9 All waste materials unsuitable for recycling will be transported from the site where it will be taken to landfill facilities.

10.0 WORKING AT HEIGHT

- 10.1 Working at height will be restricted to a minimum, with the majority of high-level demolitions being carried out by mechanical means i.e. Demolition type excavators / Plant fitted with controlled attachments such as mechanical grapples, concrete breakers, concrete pulverisers and buckets.
- 10.2 The main area where working at height will be carried out will be to the plant that is located on the roof of the tower blocks. This will require a crane to safely bring the elements down to the ground floor.
- 10.3 At this moment in time this element of work requires further investigation and a full detailed method statement will be forwarded under a separate cover prior to works commencing.

11.0 DEMOLITION OF BUILDINGS GENERALLY

- 11.1 The primary structure of the tower blocks is of a concrete frame with a core lift shaft continuing throughout the structure.
- 11.2 A pre demolition photographic survey will also be carried of each Apartment Block and a copy will be retained on site as part of the CPHSP.
- 11.3 Prior to any structural demolitions taking place, the site supervisor and plant operatives will walk the buildings to confirm whether or not there are any voids/ basements present. To prevent a collapse of the floor during mechanical demolitions, any voids that are identified will be backfilled level clean hardcore level with the existing ground level.
- 11.4 The site will be enclosed by use of steel and timber type fencing and the extent of the controlled site will be marked on a plan and issued to as part of the Section 80. Warning signs will also be displayed on the site boundary in clear and visible positions.
- 11.5 Should access onto site be required then visitors must first report to the Site Manager within the site office. The site manager will then escort the person onto site and remain with them for the duration of the visit.
- 11.6 The buildings that are to be demolished will be soft stripped as described in **Section 9** above.
- 11.7 All accessible asbestos will also be removed as identified in **Section 7** above in accordance with the Asbestos Surveys that have been undertaken to each Apartment Block.
- 11.8 All steel will be removed from the site in suitable skips that will be transported from the site for disposal.
- 11.9 Prior to commencement the incoming contractor will identify the disposal venues for all waste materials arising from the demolitions.
- 11.10 Once the demolition is complete it is proposed the timber hoarding that has been erected by the Contractor, will remain in place at the site until the new build element of the development is to commence. Site security will also be monitored by a rolling security team until the new build commences.
- 11.11 It is proposed the site will be left as a clean site with no materials present to prohibit and mitigate any potential vandalism or anti social behaviour. As noted within 11.10, the site will be left secure until the new build development commences.

12.0 EXCAVATION OF FLOOR SLABS AND FOUNDATIONS AND THE CRUSHING OF ALL DEMOLITION RUBBLE

12.1 Ground floor slabs and foundations will be excavated by use of a demolition type excavator fitted with a selection of attachments such as bucket, hydraulic hammer etc.

12.2 All slabs and foundations will be processed and reduced in size where they will then be passed through the onsite crushing plant.

12.3 Any voids arising from the demolition excavations, the sides will either be battered back, or smaller excavations will be filled with site won materials if deemed clean. Any materials that are not suitable to be re used will be removed from site and disposed of.

12.4 Crushing

It will be proposed that mobile crushing plant will be in use throughout the contract period and located sensibly close to stockpiles of material to be processed. The resulting crushed product will be stockpiled in an area to be agreed with the Engineer. The equipment to be utilised shall be licensed by a local authority. A water supply shall be connected to the dust suppression apparatus of the crusher which shall be operational at all times during the crushing. No crushing is to take place until the dust suppression system is functioning.

12.5 The crushing plant will be fed by a 360° excavator. Oversize material will be sized in the processing works and the remaining reinforcement will be removed from the discharge conveyor and into a skip unit.

12.6 The crushed product will be removed to stockpile by a rubber tyre or tracked loading shovel.

12.7 The following requirements will apply to the operation of the mobile crusher:

- (a) No attempts shall be made to defeat any safety device.
- (b) No guard shall be removed from any part of the crusher or screen unit whilst the system is in operation.
- (c) During normal operation, the crusher operator will periodically check that: -
 - (i) There is no undue vibration of the crusher
 - (ii) There are no signs of overheating
 - (iii) The crusher is working correctly
 - (iv) The emergency stop is operational