Demolition Method Statement

Nook Farm
Cleator
CUMBRIA
CA23 3EY

CONTENTS

1 Introduction

1.1. The project relates to the demolition works that are to be carried out at Nook Farm, Cleator, Cumbria, CA23 3EY

1.2. The buildings to be demolished are as follows:

- Demolition of main dwelling (1)
- Demolition of the single storey stone and concrete block building immediately South of the dwelling (2)
- Demolition of the agricultural steel frame building to the Southwest of the dwelling (3)
- Demolition of the agricultural steel frame building to the South of the dwelling (4)
- Removal of the concrete floors and concrete yard areas around the agricultural steel frame buildings (5)

The list above is the high-level sequence in which the demolition works will be undertaken, however the main dwelling is adequately segregated from the other works to allow it to be completed out of sequence.

1.3 Site Establishment, Enabling Works and Service Disconnections

Prior to demolition activities the site will be established, the buildings cleared of all loose debris & material and services disconnected. As per below:

1.3.1 Service Disconnections

The electricity to the site is currently switched off at the mains incoming into the dwelling with therefore no live electrical services to the agricultural steel frame buildings or stone and concrete block barns. Prior to commencement of the demolition works Electricity Northwest will be employed to provide a Service Alteration that will move the incoming main from the dwelling and locate it in a temporary kiosk. In addition to this any connections from the dwelling to the agricultural buildings and barns will be fully removed including those for the solar panels located on the roof of steel framed building (4).

There are no mains or local gas connections to the property.

The mains water connection is currently switched off at the stopcock and meter located on the track to the east of the dwelling. This water line runs into the dwelling, prior to commencement of the works this will be diverted to an alternative location as appropriate for site welfare requirements and dust suppression (should it be required)

A CAT detector will be used by the site supervisor to test for live underground electric cables prior to commencement of the removal of any concrete floor areas on site and highlighted using spray marker.

1.3.2 Enabling Works

The site is located on a farm and 300 metres down a private driveway away from the main road. However, a site boundary will be established using existing walls and fence lines where present and temporary Heras fencing where no existing boundary is present. Welfare facilities to be setup as required by the contractors.

1.3.3 Clearing Buildings & Soft Strip

The buildings will be cleared of all deleterious materials ensuring unhindered access to all areas of the buildings. The dwelling will be soft stripped, and all electrical conduits and cable trays will be removed from the agricultural buildings (2-4).

Rainwater guttering and pipes will be removed from the buildings prior to main demolition activities where accessible.

2 Demolition Methodology

2.1 Main Dwelling (1)

The main dwelling will already be soft stripped, and services disconnected and removed from the building.

The slate roof will be removed by individual slates and retained for reuse in the development or recycled. Scaffold access will be established to achieve this and erected by a suitably qualified scaffold contractor.

The roof purlins will be removed by excavator during the demolition stage due to the structural integrity of the building being unknown and this will therefore minimise human contact. It is known that the roof purlins are infested so these will be disposed of.

The demolition contractor will then systematically fold the building inwards down to ground level by the use of demolition excavators. Good quality sandstone will be retained for reuse in the development, whilst poor quality stone will either be recycled as hardcore material and reused in the development or disposed of.

<u>Location of Machine and Demolition Start</u>

The machine will be located on the yard initially working its way through the building front to back, as outlined below.

Utilising the selector grab the Machine operative will remove the roof and place straight into the lay down area ready for removal from site. Once the roof is removed the machine

operative will use the selector grab to push each wall elevation inwards to lower the structure within its footprint. All demolition arisings will be separated into their respective waste streams and placed into suitable containers (i.e. 40yd ROROs). The waste will then leave site and be disposed of at a licenced facility. Demolition arisings shall not be stockpiled excessively on site due to potential fire risks.

Once all waste is removed and the pile mat is installed the site will be complete and ready to be handed over for a construction phase.

2.2 Agricultural Steel Frame Buildings and Single Storey Stone and Concrete Block Building (2-4)

The overall demolition sequence of the agricultural buildings is described in section 1.2.

In general, for all agricultural buildings the roof will be removed first and removed sheet by sheet and lowered to the ground intact where possible to retain the sheets for recycling and to minimise the creation of dust. Roofing sheets will be recycled where possible or if not possible will be disposed of appropriately.

Steel Framed Buildings

For the steel framed agricultural buildings the metal sheets on the sides will be removed following the removal of the roof sheeting and retained for recycling or sent for scrap depending on the quality of the sheets. Some side wall areas of the steel framed buildings are clad in timber boards; these will be removed prior to commencing as they are not structural and their removal will aid access to the superstructure and sheeting.

The superstructure of the steel framed buildings will be completed using mechanical means using the machinery list in section 3.4. With the construction of the superstructures generally being that of a steel portal frame it is the contractor's intent to remove it by working from one end to the other. The steel from the superstructure will be recycled offsite or sent for scrap depending on the quality of the steel sections once removed.

Single Storey Stone & Concrete Block Building

Following the removal of the roof sheets on the single storey stone building, the roof timbers will be removed allowing access to the stone and concrete block walls. These will be mechanically removed using the equipment listed in section 3.4. Care will be taken to retain

any good quality sandstone for reuse in the development, whilst poor quality stone will either be recycled as hardcore material and reused in the development or disposed of.

2.3 Concrete Floors and Concrete Yard Areas

Following demolition of the agricultural steel framed buildings and the single storey stone building (2-4) down to slab level the concrete floors and concrete yard areas can be removed. Demolition of the concrete floors and concrete yard areas will be undertaken through mechanical means and hydraulically pecked. The concrete will be broken up into chunks and stored in a pile. Following this the concrete will be crushed and recycled as hardcore across the development area (water supply to be available if required for dust suppression). The entire site will be cleared of all debris and the ground surface trimmed with hardcore.

3 Site Personnel, Plant & Equipment

3.1 Site Personnel (Main Dwelling - 1)

The contractor will ensure the following resources to carry out the works as required on site:

- Demolition/ Remediation Site Manager
- Demolition Site Supervisor – Working
- First Aiders x 1
- 2 No Plant Operatives (max)
- 2 No Demolition Operatives

Working Hours

08:00am 17.00pm Monday-Friday
No working hours on Saturday and Sunday

3.2 Site Personnel (Agricultural Buildings 2-5)

The contractor will ensure the following resources to carry out the works as required on site:

- Site Manager/Supervisor
- First Aiders x 1
- 2 No Plant Operatives
- 4 No Demolition Operatives

Working Hours

09:00am 17.00pm Monday-Friday
No working hours on Saturday and Sunday

3.3 Plant & Equipment (Main Dwelling - 1)

- 1 x No 30t excavator fitted with a choice either shears, selector grab or bucket attachment
- 1 x No 20t excavator
- 1 x No mobile elevating work platform (“scissor lift”)
- 1 x mobile crusher
- 1 x 40-yard RORO skip for general waste
- 1 x Welfare facilities with Toilet and hand wash facilities

- Various hand tools

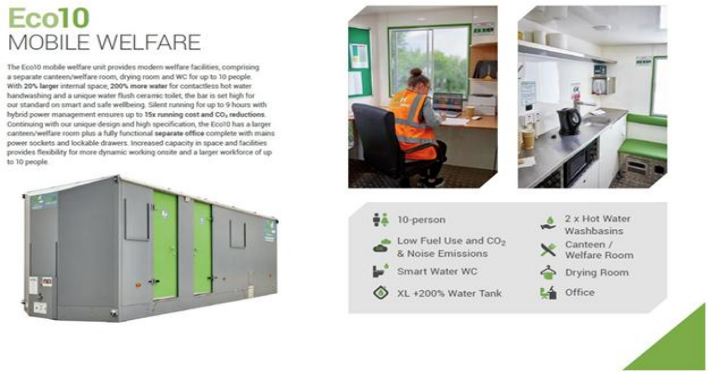
Selector Grab Hydraulic Hammer

3.4 Plant & Equipment (Agricultural Buildings 2-5)

- 1 x 14t excavator fitted with mechanical grabs or hydraulic hammer depending on the task
- 1 x 7t excavator fitted with mechanical grabs or hydraulic hammer depending on the task
- 2 x mobile elevating work platform ("scissor lift")
- 1 x 17m reach Telehandler with stabiliser legs
- 1 x mobile crusher
- Safety netting
- Various hand tools

3.5 Welfare Facilities

The welfare for the demolition works shall be like an ECO10 self-contained unit or suitable. An example of this unit and its specifications are detailed below.



3.6 Exclusion Zones

The demolition contractors will install localised barriers at the ground level to ensure that an area will fully be isolated from site personnel. This practice will be used around the demolition work faces and around demolition plant. All personnel will be briefed on layouts in induction and toolbox talks as the site progresses. The demolition contractor will install specific warning signage at pertinent locations. A public walkway will have to be installed to enable access to the public right of way. Any diversions in the walkway will be signed.

3.7 Operator Qualifications & Training

Contractors to ensure all operators and site personnel are suitably qualified and trained in the use of the plant & equipment and in undertaking the tasks.

4 Safety & Environmental Requirements

- The site is located on a farm and 300 metres down a driveway away from the main road, access to the site is limited and therefore provides a natural exclusion to the site. Only the contractors will be present on site at the time of demolition. However, a site boundary will be established using existing walls and fence lines where present and temporary Heras fencing where no existing boundary is present.
- A supply of hard hats, overalls, gloves, goggles, masks, welders gloves, face visors (when burning equipment is used) etc will be stored on Site.
- At all times the contractor will ensure a high standard of Health and Safety is carried out on site.
- All operatives on site must wear full PPE in accordance with HSE requirements such as safety boots, hard hats, high visibility vets or coat and LEP (Light Eye Protection).
- 'No smoking on site' policy will be adhered to at all times.
- Adequate segregation of pedestrians and vehicular traffic will be maintained at all times.
- Water supply will be available to provide a means of dust suppression if required, however due to the demolition methodology chosen this should be limited to aspects of the work such as demolition of stone walls and subsequent crushing of poor-quality sandstone and concrete.
- Any electrical cabling will be removed for recycling prior to commencing main demolition of the structures.
- No cable-stripping work will commence until the electrical supplies to the buildings have been irreversibly isolated as described in section 1.3.1
- Cabling in trays or otherwise present above floor level will be accessed using a scissor lift. 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.
- Under no circumstances is the sheathing to any cabling to be removed by burning.
- At no time 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.
- The contractors are to ensure themselves of all potential hazards prior to commencement of works through conducting a survey of the buildings to be demolished and the surrounding areas. Hazards to be considered include but not limited to working at height, working with unstable buildings, weather conditions, potential of presence of hazardous materials and people, plant and machinery interfaces.
- In the event asbestos is found onsite, the contractor will comply with the HSE regulations for the identification and removal of asbestos and will engage with a suitably approved licensed Asbestos Removal Contractor if the work is licensable under the regulations. Prior to commencement of the works the contractors are to confirm they understand and will comply with the HSE regulations for asbestos.
- Prior to commencement of the works the contractors are to confirm they understand and will comply with the HSE regulations for Working at Height.
- 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.
- The main areas that working at height will be carried out will be to remove the roofing and wall sheets that have been deemed accessible.
- Where access to work at height may be required access will be gained by use of Scissor Lift type Mobile Elevated Work Platforms

- Due to the height of the agricultural building located southwest from the main dwelling, safety nets will be installed as an additional precaution during demolition works.
- Prior to any structural demolitions taking place, the site supervisor and plant operatives will walk the buildings to familiarise themselves with the building and any potential issues.
- The site allows for ample space to sort & segregate any waste as result of the demolition and consequently areas will be designated for separate waste types.

4.1 Emergency & First Aid Arrangements

4.1.1 First Aid Arrangements

The demolition contractor will provide First Aiders for their works durations. 1x Basic first aider

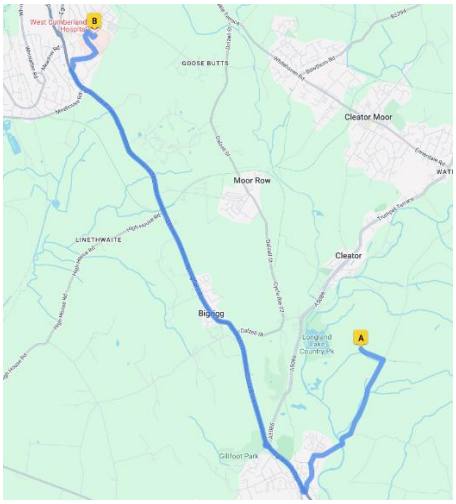
First Aid Measures Required	Rescue / Security Measures
At least one first aider to every 20 operatives	Gate(s) under control of dedicated banks persons.
First Aid box in site office or at defined locations	

First Aiders, Appointed Persons and first aid kit(s) commensurate with the total number of site personnel will to be maintained on site.

4.1.2 Emergency Arrangements

Emergency Rescue	
Fall from height rescue plan	Working at Height Rescue Plan
Tower Crane rescue training to be undertaken	NA
Contact details for emergency services to be posted in prominent areas.	Site Office
Confined Spaces rescue plan	NA

WEST CUMBERLAND HOSPITAL
HOMEWOOD ROAD
WHITEHAVEN, CA28 8JG
24 HOUR A&E
14 MINUTE DRIVE TIME



4.2 Environmental Controls

4.2.1 Dust Control

Dust control is paramount and kept to as low level as reasonably practical and measures will be taken to mitigate nuisance dust to the surrounding locations.

- The workface itself will be doused with water to dampen the source and then water will be applied either by hose or dust suppression systems to capture any further nuisance dust.
- Dust Suppression systems (dust boss) provide a very effective and mobile method of dealing with nuisance dust. These units will be used were reasonably practical and to provide continual and effective reduction of dust emissions. If required.
- Dust monitoring will be used on sites on which it is deemed required.

4.2.2 Noise Control

Noise control is paramount and kept to as low level as reasonably practical and measures will be taken to mitigate nuisance dust to the surrounding locations.

- Hearing protection to be worn by operatives, contractors and visitors in any hearing protection zone (identified by signs) that are in place.
- No noisy works to begin before 08:00 to reduce impact on surrounding residents. If extra noise limitations are in place due to Local Authority or Project specific limitations, these will also be adhered to.
- Vehicles arriving to site before 08:00 may not site idle outside the site and the operatives driving must turn off the engines.
- All plant will be modern and well maintained.

4.2.3 Traffic Management

Although Vehicular movement on this site shall be minimal, with the delivery/collection of plant being the main movements.

4.2.4 Protection Requirements

Limited temporary tree protection has been recommended as per the tree survey. As per the survey, temporary Heras fencing will be in place as appropriate for each of the areas under demolition.

4.2.5 Waste Management

All materials will either be removed from site, reused in the development or sent for offsite recycling as appropriate.

4.2.6 COSHH Assessment Index

To be read in conjunction with COSHH register within the Site Information Pack In accordance with the COSHH Regulations made under the Health and Safety at Work etc. Act 1974, the health of persons exposed to substances hazardous to health in the workplace will be protected. These regulations impose duties upon employers and their employees. Substances hazardous to health in the workplace are either materials or products imported into the

workplace or products produced by the processes. The demolition contractor will ensure that the exposure of employees to substances hazardous to health is either prevented or, where this is not reasonably practical, adequately controlled. So far as is reasonably practicable the prevention or adequate control of exposure will be secured by measures other than personal protective equipment. Where measures taken do not prevent or provide adequate control of exposure in addition to taking those measures, The Demolition Contractor will provide employees with, and ensure proper use of, suitable protective equipment that will adequately control their exposure.