Report No: URDEMO10
Date: 11/07/2022

DEMOLITION PLAN
Heyford Phase 10

PRINCIPAL CONTRACTOR

Langley Road, Pendlebury, Salford, M6 6FG

CONTENTS

1.0 Introduction

This document describes the proposed scope of works and associated demolition procedures to be undertaken on this project. These documents do not constitute task specific Risk Assessments / Method Statements (RAMS).

A separate Construction Phase Plan has been prepared for the works.

The Demolition Plan will be subject to revision to suit project constraints, health and safety, logistical and operational requirements of Urban Regen Ltd.

Buildings 279, 205, 292, POLS and filling area are to be demolished to ground floor slab level. Floor slab and foundation removal shall be subject to separate works assessment within the Construction Phase Plan.

All waste materials generated from these operations are to be removed off site to suitable recycling facilities.

All demolition rubble is to be processed on site to produce a 6F2 type material. These materials are to be re-used within the post demolition remediation works with any surplus product left in stockpile for the Client.

Site Location

The site is located at National Grid Reference 51˚55’49.81 N, 1˚15’46.36 W. The site is located off Camp Road, Heyford, Oxfordshire.

Previous Use

The buildings were formerly used as an office and ancillary building.

Proposed New Use

It is understood the proposed development is to comprise residential properties.

Controls

All demolition works carried out in this project will be done in accordance with;

- *BS 6187:2011 Code of Practice for Demolition*
- *Control of Asbestos Regulations 2012*
- *CDM Regulations 2015*

The works will also comply with;

- *EPA 1990*

Urban Regen Ltd employees will at all times whilst on site comply with the requirements of the '*Health and Safety at Work Act 1974'* etc., the '*Construction (Design and Management) Regulations 2015* and all other relevant safety legislation codes, standards and guidance and '*BS6187:2011 Code of Practice for Demolition'* which have been referred to during the preparation of this document.

2.0 Labour, Plant and Machinery

We anticipate that the following numbers of staff, plant and machinery will be involved in the works:

Site Demolition staff

1 x Project Manager – non-working
1 x Supervisor - working
3 x Plant Operatives
1 x Demolition Operatives (max)
Regular visits by the Demolition Projects Manager or Contracts Manager.

Asbestos Removal Staff

1 x Project Manager - non-working
2 x Asbestos Removal Operatives (max)
Regular visits by Contracts Manager

Plant and Equipment

- 1-2 no 25-35t demolition specification excavator on rotating selector-grab, shear and pulveriser attachments
- 1-2 no Dump Trucks (ADT and/or Forward Tipping)
- 1 no Tractor and Water Bowser for dust suppression
- 1 No Mobile Tracked Crushing Plant
- 40m3 roll-on-off skips for general waste, timber and scrap metal

All plant is to be suitably certificated with copies of the relevant certificates retained on site.

All operators are to hold NPOR/CPCS/CCDO cards and licenses.

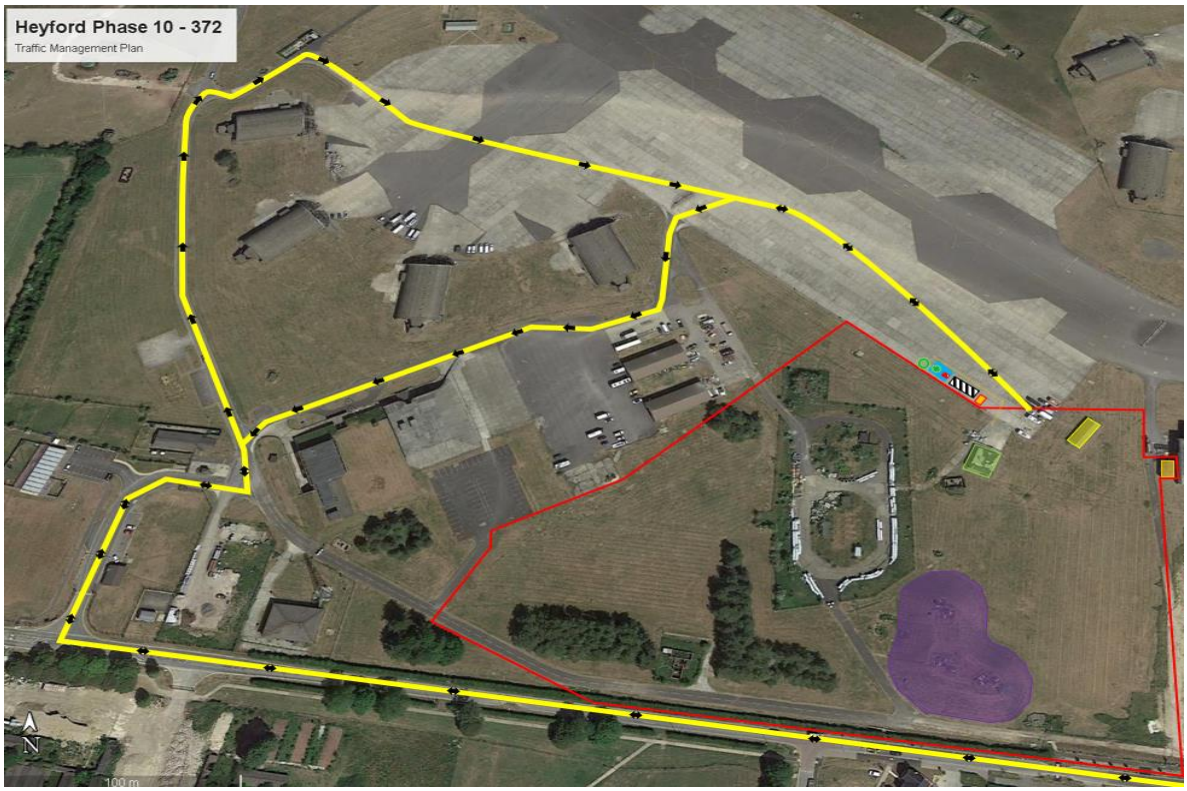
3.0 Welfare Accommodation

Suitable welfare facilities are to be established on site.

The facilities are to comply with the standards of accommodation and welfare provided in *'HSE Document HS (G) 150 Health and Safety in Construction'*. They will comprise of 1 x Project Office, Mess Cabin/Drying Room, Toilet Block/Hand wash Station, Bunded Diesel tank and generator.

Pedestrian barriers are to be used to segregate vehicle and pedestrian transit routes around the welfare facilities.

4.0 Access and Egress



Access will be situated off Camp Road. All deliveries will enter site through this access and proceed to the site office compound for signing in.

Site access signage is to be established in clear visible positions warning both vehicles and pedestrians of the site entrance.

Vehicles associated with the site works will not be permitted to park on roads adjacent to the site.

When vehicles exit from the site, it will be the responsibility of the Urban Regen Ltd gate attendant and the vehicle driver to;

- Carry out a visual inspection of all tyres to ensure that no off site trafficking will be caused by the vehicle. If any material is identified which may cause off site trafficking it is to be cleaned off / removed on site prior to the vehicle exiting.

- Ensure that all open topped wagons and skips are sheeted prior to the vehicle leaving site.

Delivery vehicles accessing the Operational Site are to be accompanied by a member of the Urban Regen Ltd site team at all times.

5.0 Traffic Management Plan (TMP)

The TMP will be based on *'HS (G) 144 The Safe Use of Vehicles on Construction sites'*.

Cars are to be provided with a dedicated parking area with a pedestrian route to the site welfare facilities. If deemed necessary, a pedestrian route will be provided from the site entrance to the welfare facilities to accommodate visitors and site operatives arriving on foot or by bicycle.

A suitable turning point is to be established on site to enable all vehicles to exit in a front facing manner i.e. do not need to reverse onto the public highway. Turning operations are to be supervised by a banksman at all times.

Responsibilities for TMP implementation

Urban Regen Ltd will ensure that the TMP is updated as necessary; and will ensure that a copy of the plan is provided to all subcontractors.

The Project Manager is to ensure that;

- a record of the TMP is held on site in the Construction Phase Plan.
- the TMP is displayed on the Site Notice Board.
- the TMP is to be communicated to all site personnel and visitors.
- the Contracts Manager is informed of update requirements.
- a banksman is allocated for vehicle movements on site.

Basic TMP Rules

- On arrival to site all drivers are to report to the Project Manager/Supervisor.
- Segregation of pedestrians and site traffic is to be maintained at all times.
- Pedestrians are to follow the designated routes at all times. (Pedestrian segregation is provided by crowd barriers and signage where possible).
- On operational site all drivers and passengers must wear Hi-Viz jackets, steel toed footwear and hard hats whenever they exit their vehicle.
- A banksman must be in attendance for all reversing operations on site.
- Reversing of vehicles and plant will be minimised as far as reasonably practicable.
- Ensure that all open topped wagons and skips are sheeted prior to the vehicle leaving site to prevent loss of material and control the release of dust.

- Care shall be taken to ensure vehicle movements are dealt with diligently and are restricted in peak times i.e. pre-school opening, post-school closing times, normal work commuting times etc.
- The Project Manager is to coordinate deliveries so as to minimize any disruption to third parties using the public highway.
- When entering the public highway due care is to be taken to minimize any disruption to third parties.

6.0 Working Hours

Site working hours are as detailed within the relevant planning permission granted by the Local Authority. These are;

8.00 a.m. – 18.00 p.m. Monday to Friday
8.00 a.m. – 13.00 p.m. Saturday

Any works required outside of the specified working hours are to be agreed with the Local Authority prior to the works being carried out.

7.0 Services

Dorchester Homes must provide Urban Regen Ltd with up-to-date utility service drawings for the works. These are to be retained on site in the Construction Phase Plan for reference purposes.

Where possible services should be terminated beyond the site boundary. Any service disconnections should be accompanied by a disconnection certificate and associated plan. These should be provided to Urban Regen Ltd by the client prior to commencement of works.

All service information is to be retained on site in the Construction Phase Plan for reference purposes.

A CAT and Genny will be used by the Urban Regen Ltd Project Manager to locate any live electric services as well as any other detectable services prior to works commencing.

Existing Services

All live services will require disconnection by the client prior to any demolition activity.

9.0 Safety and Work Control

No work is to be carried out outside the scope of any work specific risk assessment and method statement (RAMS). In the event that unforeseen circumstances are encountered, work is to be stopped, a revised method statement prepared, and a re-briefing carried out prior to the works re-commencing.

No works are to be carried out until a '*Permit to Work'* has been issued.

All mobile plant operators are to be in possession of suitable valid certification (NPOR/CPCS/CCDO) for the operation of such plant. It is also a requirement that all site operators / personnel are CSCS accredited.

Records of all certification is to be provided at site induction with copies made and held on site for reference purposes.

Any visitors are required to undertake a visitor's site induction and be accompanied by a member of Urban Regen Ltd at all times when on operational site.

Urban Regen Ltd operates a zero-tolerance policy on health and safety issues. This will be conveyed to all site operators / personnel during the site induction.

All site personnel are to adhere to all Health and Safety protocols at all times.

All necessary health and safety plans, risk assessments, method statements, test certificates, registers, diaries and accident books etc are to be kept on site at all times under the control of the Project Manager.

All site accidents are to be reported to the Project Manager and entered in the site accident book.

All site operatives / personnel on site must wear full PPE in accordance with HSE requirements including safety boots, hard hats and high visibility clothing as a minimum. Additional PPE is to be worn as detailed in the associated RAMS.

A supply of spare Personal Protective Equipment (PPE) including hard hats, disposable overalls, gloves, eye protection, dust masks etc. is to be stored on site at all times.

The integrity of the site boundary is to be inspected daily by the Urban Regen Ltd Project Manager. Any breach identified is to be repaired accordingly.

Exclusion Zones are to be established around demolition operations as detailed in *BS 6187 Code of Practice for Demolition*. The Exclusion Zones are to be defined by the use of HERAS type fencing secured to prevent access to unauthorised personnel. Suitable signage is to be established on the fencing to identify the exclusion zone and the dangers therein. The extent of the exclusion zone is to be detailed in the associated risk assessment and method statement for the works.

Warning signage is to be displayed around the perimeter of the site in clear visible positions indicating the nature of the operations that are taking place on site. A contractor notice board is to be erected at the site entrance informing site visitors of company details and health and minimum safety requirements on site.

A car park is to be established on site to ensure off street parking for all associated site personnel.

Site security is to be maintained at all times.

It is the responsibility of the Project Manager to ensure that;

- all site operatives / personnel are to be competent and suitably trained prior to carrying out any operations on site.
- all site operatives / personnel receive a site-specific induction.
- all site operatives / personnel involved with any works on site shall attend an appropriate method statement briefing.
- risk assessments and method statements are understood by the associated personnel and a signed acknowledgement made prior to leaving any briefings.
- suitable emergency procedures (muster point / fire point / first aid) are identified to all site operatives / personnel prior to commencing works on site.
- all site operatives / personnel are issued appropriate Personal Protective Equipment (PPE) specific to the task and as indicated in the associated risk assessment.
- all site operatives / personnel are appropriately supervised during the works.
- that on completion of, or at the end of any working shift, the work area is made safe and all materials and equipment are stored securely.
- all site operatives / personnel will undergo a daily team talk detailing the tasks to be carried out and the risks involved.

General Documentation

This Demolition Plan must be read in conjunction with the following documentation:

- *Hazards of Demolition (HAZDEM)*
- *Construction Phase Plan (CPP)*
- *Handover Documents.*
- *Site Induction*
- *Site Traffic Management Plan (TMP)*
- *Permits to work*
- *Task specific method statements*
- *COSHH Assessment*
- *Refurbishment and Demolition Survey*
- *Asbestos Plans of Work*

10.0 Protection to the Public

Due to the nature of demolition operations noise, dust and vibrations will always be generated; even when utilising the latest technology. Urban Regen Ltd will endeavour to undertake all works in such a way as to minimise any nuisance to third parties.

The Project Manager is to:

- Take all reasonable measures to minimise the creation of dust.
- Assess wind direction and speed to determine the potential impact of the works on downwind premises / properties.
- Implement dust suppression techniques to minimise the impact of dust from the works.
- Curtail, suspend or re-programme works as necessary to minimise / prevent any potential impact on neighbouring properties / premises.
- Monitor the condition of the public highway.
- Leave hard surfaces in-situ to minimise trafficking off site.
- Utilise a temporary wheel wash or jet wash facility to clean off vehicles prior to them entering onto the public highway if necessary.
- Utilise a road sweeper as necessary to remove any trafficking from the public highway.
- Take all reasonable measures to minimise the impact of noise.
- Ensure all plant is fit for purpose and adequately maintained so as to ensure that noise generation is within the manufacturer's stated maximum noise level.
- Ensure that all works are carried out within the hours specified by the Local Authority.
- Ensure a super-silenced generator is being used to provide electrical power to the site welfare facilities.
- Ensure noisy operations (e.g. use of hydraulic breakers) are programmed to minimise any disturbance.
- Ensure that an accredited consultant is appointed to undertake Noise and Vibration surveys as necessary.

11.0 General Overview of Demolition Works

The works detailed in this plan relate to the complete demolition of all structures to slab level and the processing of all resultant materials for disposal / re-use on the new construction development by Dorchester Homes.

These works will include:

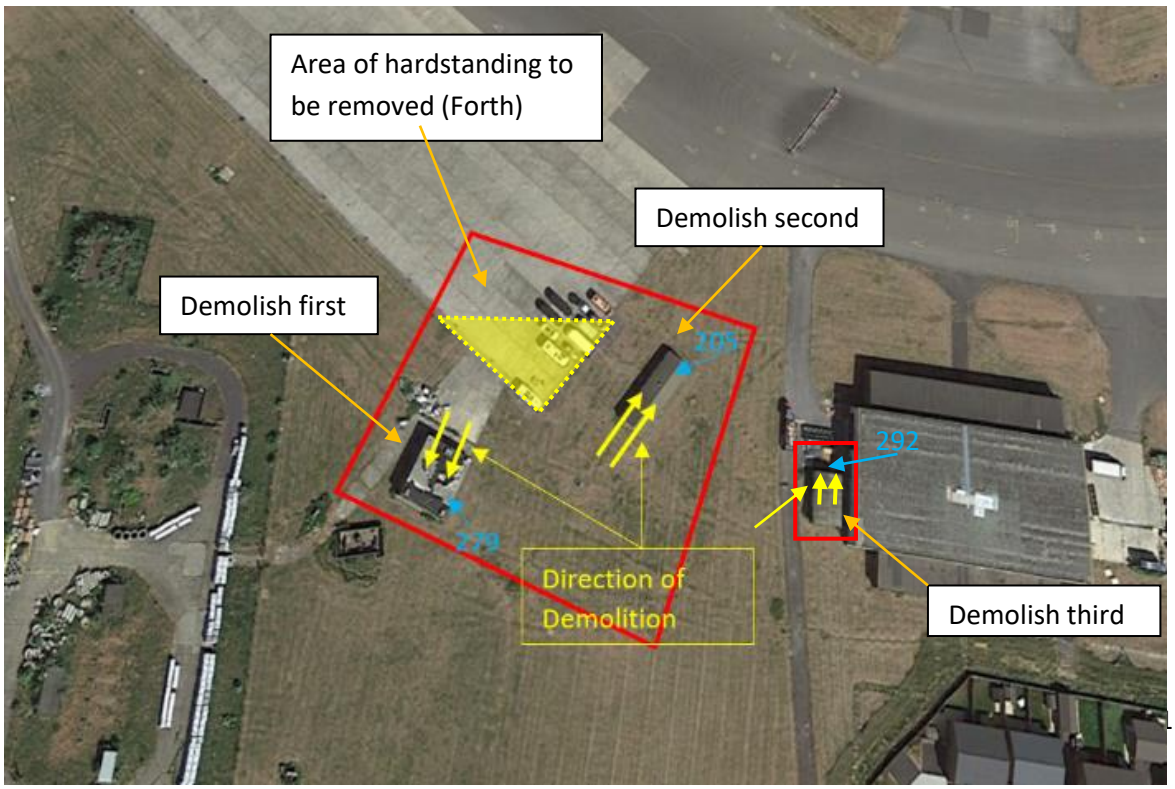
<u>Enabling works (by Others)</u>

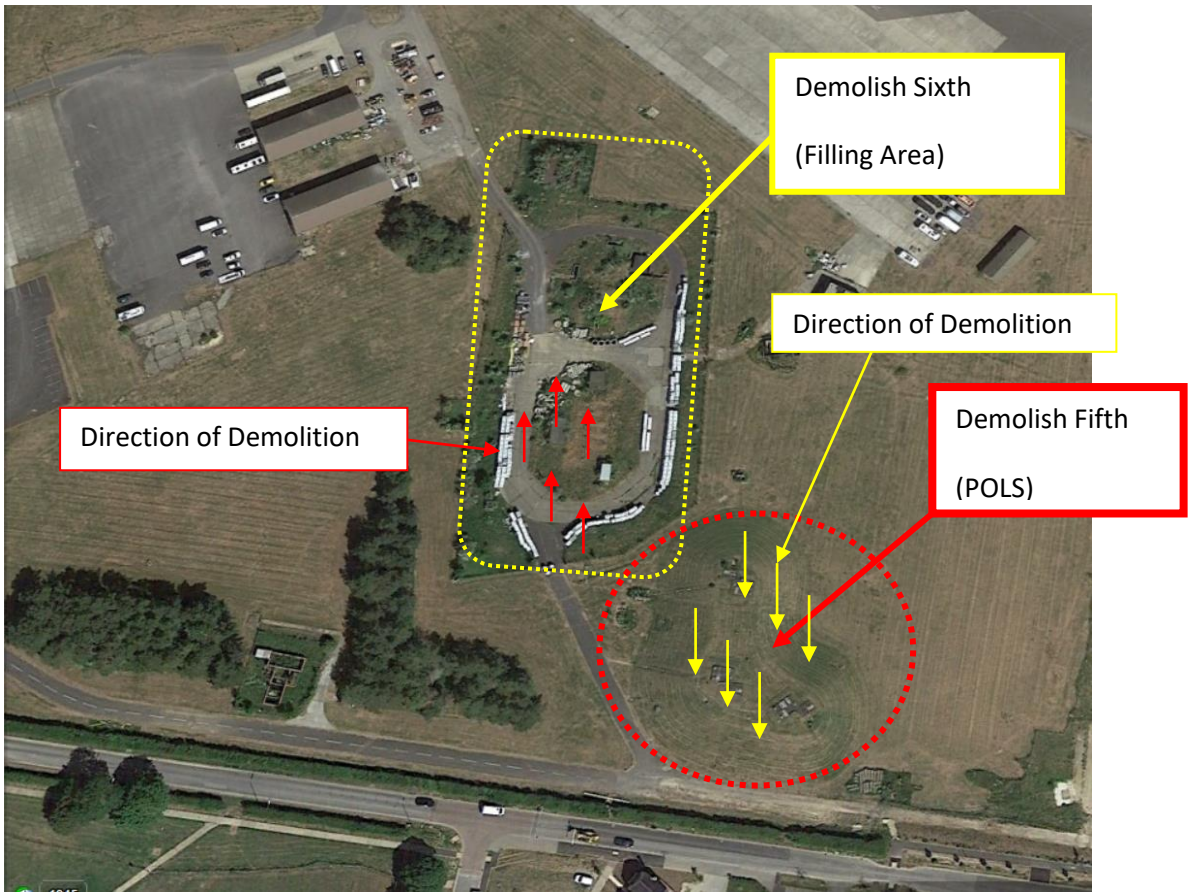
- Remaining service disconnections by Dorchester Homes.

<u>Operational works (by Urban Regen Ltd)</u>

- Protection of remaining services.
- Removal of all asbestos containing material (ACM) from the site.
- Sequential demolition of all structures.
- Processing of all demolition arisings for disposal / re-use.
- Environmental monitoring as necessary.

12.0 Sequencing of Demolition Works





13.0 ACM Removal

Prior to any demolition works being carried out a Refurbishment and Demolition Survey must be carried out to all structures / facilities to identify any ACM's on site.

- In order to comply with the Control of Asbestos Regulations 2012, a Demolition Asbestos Survey has been undertaken for all buildings on site. The survey was carried out in accordance with HSG264 by a qualified and accredited asbestos surveyor. The purpose of the survey was to inspect the buildings in order to identify the presence of asbestos and/or asbestos containing materials. Samples were taken from structural components, surfaces, coatings, fixtures and fittings and sent for laboratory analysis. The findings of the survey and laboratory analysis were then compiled into a report that shows the location, type, classification and quantities of all asbestos identified within the buildings.

- Prior to works commencement, an ASB5 Notification must be submitted to the HSE notifying them that licensed asbestos removal works will be undertaken on site. The notice will provide them with details of the licensed contractor that will be undertaking the works in addition to details of the works

- No demolitions or strip-out works of any sort will take place to the buildings until all identified asbestos containing materials have been removed from the buildings
- Licensed asbestos removal works will only be undertaken by a licensed asbestos contractor

- Background air monitoring will be undertaken external to but in the vicinity of the buildings during the works to verify that no asbestos fibres have been released into the atmosphere

- Each location where licensed asbestos removal works is due to take place will be sealed off into controlled enclosures to make air-tight. Vacuum pumps will be used within the enclosures to create negative air pressure and keep all dust within the enclosure

- Upon removal, asbestos containing materials will be placed into sealed skips and removed from site to licensed landfill in a compliant manner

- Following removal works, the enclosure location will be thoroughly cleaned and sampling will take place to confirm that no residual asbestos fibres are present

- Only when all asbestos containing materials have been removed from a building, and sampling has confirmed that no residual asbestos fibres are present, will a clearance certificate be issued by the asbestos contractor

- Only when clearance certificates are issued for a building can demolition works commence.

PPE

Hard hat (BS EN397) – All operatives
Safety boots (incl. reinforced toe cap and mid-sole) – All operatives
Gloves – All operatives
Light eye protection (Safety Specs – BS EN166) – All operatives
Sundstrom P3 ori-nasal half mask - Asbestos removal
Category 5 Disposable Overalls - Asbestos removal

Working at Height

To gain safe access to ACM's at height operatives are to use mobile elevated work platforms (MEWP's).

MEWP's are only to be operated by CSCS IPAF trained and experienced personnel.

Operatives are to wear a full body safety harness equipped with 1m fall restraint lanyard secured to the approved fixed point within the MEWP basket.

Exclusion zones are to be established to isolate areas being accessed by MEWP's; the ground in which will be firm, level and free from obstructions.

Operatives are not to exceed the safe working load (SWL) of the MEWP as detailed on the relevant test certification.

2 no operatives are to work from the MEWP at all times. In the event of injury, the second operative will lower the basket to ground level. In the event that the controls in the basket do not respond a third trained operator at ground level will use the emergency controls.

Pre Works Checks ACM removal

Project Manager

- Ensure safe and unrestricted access for operatives to remove ACM's.
- Ensure that the working area is clear allowing safe access and safe movement of the MEWP.
- Appoint an asbestos analyst to conduct personal and background air monitoring during the works (the frequency of which is dependent up on material type and condition).

14.0 Soft Stripping

Prior to mechanical demolition operations being carried out, all buildings are to be soft stripped as much as is practicable to minimise the cross contamination of demolition arising's.

All soft strip materials are to be segregated into their relevant waste streams and placed into the associated skip for recycling / disposal off site.

Items for removal include:

- Redundant equipment – particularly Waste Electronic Equipment
- Fixtures & fittings,
- Light bulbs,
- Furniture,
- Carpet tiles,
- False walls & ceilings,
- Timber, services,
- Cables,
- Light fittings,
- Vinyl wall / ceiling lining,
- Non-structural items of equipment.

Pre Works Checks

Project Manager

- Ensure safe and unrestricted access into buildings and structures for operatives to carry out soft strip operations.
- Ensure the working area is safe and not adjacent to any ongoing mechanical demolition
- Ensure all services have been isolated and the relevant certification received.
- Ensure all accessible ACM's have been removed from the immediate work area and clearance certification received.

Soft strip operations

1. Soft stripping is to be carried out by trained and experienced site personnel.
2. Soft stripping is to be carried out using basic hand tools.
3. Soft strip materials are to be segregated as the works progress and disposed of in the relevant skips.
4. Loose soft strip materials, debris etc. are to be collected and bagged at source for placement into the relevant skips.
5. Cable removal is only to be carried out from an open end.

6. Cables are to be cut into manageable lengths using hydraulic cable cutter or disc cutter.
7. Soft stripping activities required at height will be accessed from podiums or scaffold towers erected by PASMA trained personnel.
8. Emergency batteries are to be removed intact mechanically.
9. Batteries are to be placed onto pallets for collection and disposed of off-site (care is to be taken to ensure that batteries are not damaged).
10. Any equipment too large or inaccessible to be soft stripped is to be left in-situ until mechanical demolition commences.
11. Removal of any plant items is to be carried out mechanically.
12. A high level of housekeeping is to be maintained at all times during soft strip operations so as to maintain suitable access and egress in the event of an emergency.
13. Soft stripping operations are to continue until all possible non-structural items have been removed from the buildings or until the desired level of soft stripping has been achieved.

15.0 General Demolition Operations of the Structures

Unless otherwise stated, the methods described below assume ACM removal has been carried out and soft strip operations have been completed.

Building 205

Pre-Works Checks

Project Manager

- Ensure all services have been isolated and the relevant certification received.
- Ensure any remaining services have been protected as necessary.
- Ensure all accessible ACM's have been removed from the immediate work area and clearance certification received.
- Confirm soft strip operations have been carried out to the desired level.

- Ensure that the RAMS specified Exclusion Zone has been established.

Safety Points

- Ensure the banksman is sited external to the exclusion zone but with a good view of the demolition operations.
- Maintain a safe standoff distance of 3m from the building during the demolition operations.
- Ensure that demolition arising's are formed up into a neat pile on the slab of the building / relocated to stockpile ensuring a safe and level finish with no risk of collapse.
- Be vigilant for ACM's. If in doubt stop work and ask the Urban Regen Ltd Project Manager.

Machine Demolition

1. The mechanical demolition works are to be carried out by a demolition spec excavator fitted with an attachment.
2. Commencing work from the gable end of the buildings and are to be demolished in a top down manner, bay by bay.
3. The roof structures are to be removed and located to an adjacent stockpile for processing prior to being relocated to stockpile or loaded into their designated waste streams and skipped accordingly.
4. As the roof structures are removed the brick walls are to be folded onto the footprint of the buildings.
5. As the buildings are reduced to ground level any remaining waste materials are to be segregated from the rubble, placed into their designated waste streams and skipped accordingly.
6. When the demolition operations are complete the resultant rubble is to be relocated to stockpile where it will be processed at a later date.
7. The resultant slab of the buildings is to be scraped clean, pulled up, processed and ground beneath is to be civilised and tracked in.

<u>Building 279</u>

Pre-Works Checks

Project Manager

- Ensure all services have been isolated and the relevant certification received.
- Ensure any remaining services have been protected as necessary.
- Ensure all accessible ACM's have been removed from the immediate work area and clearance certification received.
- Confirm soft strip operations have been carried out to the desired level.

- Ensure that the RAMS specified Exclusion Zone has been established.

Safety Points

- Ensure the banksman is sited external to the exclusion zone but with a good view of the demolition operations.
- Maintain a safe standoff distance of 3m from the building during the demolition operations.
- Ensure that demolition arising's are formed up into a neat pile on the slab of the building / relocated to stockpile ensuring a safe and level finish with no risk of collapse.
- Be vigilant for ACM's. If in doubt stop work and ask the Urban Regen Ltd Project Manager.

Machine Demolition

1. The mechanical demolition works are to be carried out by a demolition spec excavator fitted with a pulveriser attachment.
2. Commencing work from the front of the building and is to be demolished in a top-down manner, pulverising the concrete whilst working through the building.

3. The concrete roof structure and concrete walls are to be pulverised methodically whilst moving through the building.

4. As the roof and walls are being pulverised any steel rebar is to be bailed and placed into designated stockpiles ready for recycling.

5. As the building is reduced to ground level any remaining waste materials are to be segregated from the rubble, placed into their designated waste streams and skipped accordingly.

6. When the demolition operations are complete the resultant rubble is to be relocated to stockpile where it will be processed at a later date.

7. The resultant slab of the buildings is to be scraped clean, pulled up and ground beneath civilised and tracked in.

Building 292

Pre-Works Checks

Project Manager

- Ensure all services have been isolated and the relevant certification received.
- Ensure any remaining services have been protected as necessary.
- Ensure all accessible ACM's have been removed from the immediate work area and clearance certification received.
- Confirm soft strip operations have been carried out to the desired level.

- Ensure that the RAMS specified Exclusion Zone has been established.

Safety Points

- Ensure the banksman is sited external to the exclusion zone but with a good view of the demolition operations.
- Maintain a safe standoff distance of 3m from the building during the demolition operations.
- Ensure that demolition arising's are formed up into a neat pile on the slab of the building / relocated to stockpile ensuring a safe and level finish with no risk of collapse.
- Be vigilant for ACM's. If in doubt stop work and ask the Urban Regen Ltd Project Manager.

Machine Demolition

1. The mechanical demolition works are to be carried out by a demolition spec excavator fitted with a selector grab and shear attachment.

2. Commencing work from the front of the building and is to be demolished in a top-down manner, peeling sheets off with selector grab.

3. The steel frame of the building is to be cut down using a shear attachment.

4. As the building is being demolished waste materials; roofing sheets and steel structure are to be segregated into separate stockpiles ready for recycling.

5. As the building is reduced to ground level any remaining waste materials are to be segregated and placed into their designated waste streams and skipped accordingly.

6. When the demolition operations are complete the remaining stanchion bases are to be removed processed and placed into the correct stockpiles. Civilise the remaining ground and track in.

Area of hardstanding to be removed

Pre-Works Checks

Project Manager

- Ensure all services have been isolated and the relevant certification received.
- Ensure any remaining services have been protected as necessary.
- Ensure that the RAMS specified Exclusion Zone has been established.
- CAT Scan area and issue "Permit to Dig".
- Mark up area of hardstanding to be removed.

Safety Points

- Ensure the banksman is sited external to the exclusion zone but with a good view of the demolition operations.
- Ensure that demolition arising's are formed up into a neat pile in the working area.
- Be vigilant for ACM's. If in doubt stop work and ask the Urban Regen Ltd Project Manager.

Machine Demolition

1. The mechanical demolition works are to be carried out by a demolition spec excavator fitted with a breaker and bucket attachments.

2. Using breaker attachment, break up hardstanding area to be lifted.

3. Starting from edge of the hardstanding peel up concrete slab, using bucket attachments.

4. Pile up any hardcore arisings in the working area.

5. Tidy edge of remaining hardstanding area, using breaker attachment.

POLS

Pre-Works Checks

Project Manager

- Ensure all services have been isolated and the relevant certification received.
- Ensure any remaining services have been protected as necessary.
- Ensure all accessible ACM's have been removed from the immediate work area and clearance certification received.
- Ensure all tanks and pipe work have been decommissioned and clearance certification received.

- Ensure that the RAMS specified Exclusion Zone has been established.

Safety Points

- Ensure the banksman is sited external to the exclusion zone but with a good view of the demolition operations.
- Maintain a safe standoff distance of 3m from the building during the demolition operations.
- Ensure that demolition arising's are formed up into a neat pile on the slab of the building / relocated to stockpile ensuring a safe and level finish with no risk of collapse.
- Be vigilant for ACM's. If in doubt stop work and ask the Urban Regen Ltd Project Manager.

Machine Demolition

1. The mechanical demolition works are to be carried out by a demolition spec excavator fitted with a selector grab, breaker and shear attachment.

2. Prior to demolishing the tanks, all vegetation and topsoil is to be scraped back and stockpiled, from on and around the tanks.

3. Commencing work from the North side of the tanks and is to be demolished in a top-down manner, breaking away concrete surrounds using hydraulic breaker attached to demolition spec excavator.

4. Concrete arisings are to be loaded into dump trucks, and transported to designated stockpiles

5. The exposed steel tanks are to be cut into pieces using a shear attachment.

6. The processed steel is to be loaded into relevant skips and sent to fully licenced facilities to be recycled.

7. As the tanks are reduced to ground and below ground level any remaining waste materials are to be segregated and placed into their designated waste streams and skipped accordingly.

8. When the demolition operations are complete the remaining foundations are to be removed, processed, loaded into dump trucks and transported to the correct stockpiles. When the demolition operations are complete backfill any excavations in layers with suitable fill and compact. Civilise the surrounding ground and track in.

<u>Underground Tanks/Filling Area</u>

Pre-Works Checks

Project Manager

- Ensure all services have been isolated and the relevant certification received.
- Ensure any remaining services have been protected as necessary.
- Ensure all accessible ACM's have been removed from the immediate work area and clearance certification received.
- Ensure all tanks and pipe work have been decommissioned and clearance certification received.
- Ensure that the RAMS specified Exclusion Zone has been established.

Safety Points

- Ensure the banksman is sited external to the exclusion zone but with a good view of the demolition operations.
- Maintain a safe standoff distance of 3m from the building during the demolition operations.

- Ensure that demolition arising's are formed up into a neat pile on the slab of the building / relocated to stockpile ensuring a safe and level finish with no risk of collapse.
- Be vigilant for ACM's. If in doubt stop work and ask the Urban Regen Ltd Project Manager.

Machine Demolition

1. The mechanical demolition works are to be carried out by a demolition spec excavator fitted with a selector grab, breaker and shear attachment.

2. Prior to demolishing the tanks, all vegetation is to be scraped back and stockpiled, from around pipework and where the underground tanks are located.

3. Commencing work from the pipework locations cutting up pipework and placing into relevant skips in readiness for recycling. Pipework is to be cut up using a hydraulic shear attachment, and loaded into skips with selector grab.

4. Demolish pump houses in the filling area, using various attachments such as; hydraulic shear and selector grab. All waste to be segregated and placed into designated skips and/or stockpiles ready for recycling.

5. Break out surrounding concrete on underground tanks with hydraulic breaker. All concrete arising to are to be loaded into dump trucks and transported to designated stockpiles.

6. Using a hydraulic shear, the tanks are to be cut into manageable pieces. Placing steel pieces into skips in readiness for recycling.

7. Break out any concrete within the steel tanks, load concrete arisings into dump trucks and transport to designated stockpiles.

8. Any remaining waste materials are to be segregated and placed into their designated waste streams and skipped accordingly.

9. Remove any foundations of which the underground tanks are sat on, using a hydraulic breaker. Load any arisings into dump trucks and transport to designated stockpiles.

10. When the demolition operations are complete backfill any excavations in layers with suitable fill and compact. Civilise the surrounding ground and track in.

16 Processing of Demolition Arisings

All processing operations are to be undertaken as detailed in NFDC's guidance document "Safe Use of Mobile Crushers in Demolition".

Pre-processing of demolition arisings

During the demolition works hard materials will be generated (brickwork, concrete etc.). As the demolition works progress these materials are to be separated as necessary and relocated and stockpiled ready for processing. Oversized material is to be stockpiled separately for pre-processing prior to being relocated to stockpile ready for processing.

Pre-processing operations are to be carried out utilising 20T – 30T demolition excavators on pulveriser / breaker attachments. Oversized demolition arising are to be pre-processed to a size suitable for the Mobile Crusher to be used.

Processing of demolition arisings

Processing of site derived hard materials is to be carried out utilising a mobile crushing plant licensed by the relevant Local Authority. All processing operations will be carried out as stipulated within the specific license.

Processing operations are to be carried out in a designated area remote from other works and located sympathetically with regards to neighbouring properties.

Prior to any processing being carried out suitable dust suppression facilities are to be in place to control any potential dust generated during the processing operation. The location of the dust suppression equipment will be determined by the type of hard material being processed and the point of dust emission. No processing is to be carried out until suitable dust suppression facilities are in place, sufficient and operational.

The mobile crushing plant is to be serviced by 20T-30T demolition excavators on bucket attachment. Care is to be taken to ensure only suitable hard materials are 'fed' into the mobile crusher. Any oversized or unsuitable materials are to be removed as the stockpile is worked for further pre-processing or disposal.

Processed materials are to be stockpiled adjacent to the mobile crushing plant for re-use within the works.