METHOD STATEMENT

UCL Institute of Neurology Demolition interface with the Eastman Dental Clinic (EDC)

256 Grays Inn Rd, London WC1X 8LD

Aconex Notation	BEMP-KBY-SW-ZZ-MS-X-00-0002			
KB Method statement No.	KB-MS-DC1215-002	Revision No.	P03	
Title	Demolition Method Statement (Inter	face with EDC)		
Start Date of Works	May 2020 (TBC)	Duration	c. 5 months	

Revision History						
Document No.	Revision No.	Issue Date	Author	Description of Modifications		
001	00	19.02.2020	C. Varzari	First Issue		
001	P01	18.03.2020	C Varzari	ISG Comments Incorporated		
001	P02	05.05.2020	N Smith	Further Comments Incorporated		
001	P03	26.05.2020	N Smith	Further Comments Incorporated		

This Revision							
	Print Name	Signature	Position	Issued to:			
Author	Nick Smith		Operations director	Keltbray HSQE Dep.			
Checked by							

	Status of This Revision					
Overall	Approval Status	Yes	No	Date		
Cat A	Accepted for implementation. Work may proceed as planned.	\checkmark				
Cat B	Cat B Not accepted for implementation. Resubmission required.					
Date Re	eturned to Contractor					

Sign of by Project Manager	Print Name	Signature	Date
Sign of by Froject Manager	pp. Nick Smith		



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Health and Safety Factors				
Phase	Key Factors			
Design	 Structural knowledge of the structure and site surveys or assessments Structural knowledge of any adjacent structure Equipment and methods selected for Work 			
Planning	 Site knowledge Health and Safety risk assessment Development of safe sequences of work activities 			
Execution	 Workforce Supervision Control of method statements implementation Communication of unplanned discoveries Safety information and training selection 			



1. Introduction

This document outlines the methodology that Keltbray will employ in order to undertake the controlled demolition of the buildings associate with University College London – Institute of Neurology Project.

In particular this document will focus on the demolition interfaces around the Eastman Dental Clinic (EDC). The EDC building is grade 2 listed and therefore further control measures will be implemented when working on demolition works adjacent to this building.

All works will be undertaken in a manner to ensure that the fabric of the EDC is not damaged. Also Keltbray will ensure that environmental and traffic disruption is minimised where possible. The Principal Contractor (ISG), Keltbray and Camden Council will communicate with all neighbours throughout the works via newsletters/ meetings etc.

Keltbray will undertake the works as a subcontractor to ISG. The works will be carried out in separate phases, which will involve site survey, service termination, soft strip, scaffolding, temporary works followed by the structural demolition of the buildings and the groundworks package.

The site address is UCL Institute of Neurology 256 Grays Inn Road, London, WC1X 8LD.

2. Scope of Works

The works package includes the hard demolition of the former Royal Free Hospital to the north of the EDC and Levy Wing to the east (see below). There are also minor elements to be potentially demolished to the south of the EDC, however these are not included in this document as they do not currently form part of the demolition scope.





The current scope of works includes soft strip to all demolished areas but not to the EDC building and only to certain specified areas of the Alexandra wing. This document does not cover brick cleaning as it is not part of the demolition scope of works. The removal of the Riddell fountain within the courtyard is covered by a separate method statement.

All demolition and soft strip works will be carried out directly by Keltbray Ltd with our CCDO trained workforce and will be under the direct control of a Keltbray demolition manager. We have also made allowance for a consultant to advise on specific scope items of soft strip and salvage within the Alexandra wing

The 3D images below are taken from our sequencing sketches and show the buildings pre and post demolition.



The sketch above shows the buildings that are retained:- the EDC building (shown right) & the Alexandra wing of the Royal Free (shown partially hidden by the temporary scaffold in green).



3. Enabling Works

In order to comply with our programme the following activities will be required to be provided/actioned by Keltbray and ISG.

- Statutory Notifications and Consents ISG
- Section 80 Notification ISG
- Scaffold licences/Road closures ISG
- Services terminations/disconnections at boundaries to the building and associated documentation ISG
- Approval of all relevant and submitted Method Statements, Scaffolding and Temporary Works designs -ISG & Keltbray
- Provision of temporary service supplies (power, water, supplies and drainage) ISG.
- Site Traffic access/egress and pedestrian routing Keltbray then taken over by ISG once other contractors are on site
- Establishment and operation of noise, dust and vibration monitoring stations as required
- Establishment of local residents and communications systems, including meetings, monthly newsletters, establishment of a complaints system etc ISG

All of the activities listed below will be completed prior to the outlined works below commencing.

- Demolition Asbestos Survey (R&D)
- Asbestos removal, and clearance Keltbray
- Electrical decommissioning isolation ISG
- Draining down and isolation of water services ISG
- Decommissioning of fire alarm ISG
- Installation of temporary power and water, supplied by ISG and works completed by Keltbray
- Setting out access / egress on site to working areas and demarcate plant routes on site Keltbray until other contractors start on site
- Establish best practicable methods for managing the vehicles entering / leaving the site -Keltbray
- Nominate specialist subcontractor to complete erection of protection encapsulated scaffold as per approved scaffold design - Keltbray
- Establishment of fire routing: fire-fighting equipment and emergency lighting in accordance with separately issued Fire and Emergency procedures Keltbray.
- Structural investigations and floor load testing to determine the size of plant allowable for the floor by floor demolition, and to establish the propping requirements for demolition plant. – Keltbray temp works engineers
- Erection of temporary Welfare facilities that include toilets, changing room, canteen and office by ISG.
- Condition surveys Keltbray
- Protection measures to listed items Keltbray
- Site induction for all personnel ISG & Keltbray
- Method Statement briefings to the workforce on this document Keltbray
- Tool box talks and daily briefings- Keltbray,



4. Method of Works

This section covers:-

- 1. Demolition of the New Wing & Alexandra Wing to the north of the EDC
 - o Existing condition
 - Protection measures
 - o Methodology
- 2. Demolition of the Levy Wing to the east of the EDC
 - Existing condition
 - Protection measures
 - Methodology
- 3. Other demolitions within the site
 - o General Site Practices
 - Scaffolding
 - Lift car removal
 - o Demolition sequence of works
 - Roof demolition
 - Removal of roof plant
 - Floor by floor demolition
 - Removal of arisings

Refer to the plan drawing below that shows the agreed cut line (shown green) between the EDC and the other buildings. The buildings to be demolished are shown red – these interface with the EDC on north and east elevations, the area to the south shown orange is not part of the scope of works and is not covered in this document.





1. Demolition of the New Wing & Alexandra Wing to the north of the EDC

Existing condition

The existing condition of the EDC is well documented in the Eastman Dental Clinic Conservation Report, dated Dec 2018 by Alan Baxter; some shorts extracts are given below.

The EDC (built 1928-31) is of steel-framed construction, clad in brown brick with Portland stone dressings. It comprises four storeys (including a lower-ground floor) and has an 'H'-shaped plan, with later brick extensions added to the south and east (courtyard) elevations. An opening in the north elevation at ground-floor level gives access to a late twentieth-century stair-tower extension, which connects with the New Wing of the former Royal Free Hospital, built in 1989. The EDC was statutorily listed at Grade II in 2007



The Eastman Dental Clinic under construction, 1929

The **former Royal Free Hospital** is immediately to the north of the EDC. The south (New) Wing is connected to the EDC by a four-storey (including lower-ground floor) extension, dating from the late twentieth century. The former Royal Free Hospital comprises four wings surrounding a courtyard: the Alexandra (west), Sussex (north) and Victoria (east) wings, which have four to five storeys (including lower-ground floor), date from 1855–95 and are built of yellow stock brick with stone dressings. The New (south) Wing, built in 1989, comprises a lower ground and ground floor, and is built of yellow stock brick.





The EDC has interfaces with the Alexandra Wing (built 1895) and New Wing (built 1989) that abut along the north side as shown above on the level 1 floor plan of the site.

Also refer to the 3D images below.



The EDC was constructed in 1928 -31 and predates the later addition of the adjoining New Wing and 4-stoey extension that were built in 1989. The EDC is structurally separate and appears to be in sound condition and without structural defects.

It is assumed that the buildings to be demolished abut the EDC but are not structurally connected ie they are not 'keyed in'. This is evidenced by the difference in the level and type of construction on the various interfaces as shown below.

Where necessary the existing condition can be proven by investigations. These would typically be 300mm x 300mm pockets in the adjoining buildings, carefully broken out using electric hand tools.



Photos of the present day junction between the Alexandra Wing and EDC (left) and the same location in 1931 just before the EDC was opened. Not much has changed apart from modifications to the windows and the entrance.

Protection measures



Additional scaffolds and screens (as shown in the figure above) will be erected during the demolition works to ensure protection of the EDC listed building.

The scaffolding will encapsulate the sections of the building that are to be demolished and also provide protection to the façade and windows of the EDC building.

Typically 'monarflex' (a reinforced plastic sheeted material) is fixed to the scaffold to provide an effective screen and to prevent any debris or material coming into contact with the adjacent EDC building. All scaffolds will be kept two metres above the demolition working level to ensure any debris is contained within the demolition work zone.

The scaffolding also provides access to inspect the retained elements and to reduce the visual and environmental impact of the works.

Localised timber ply / scaffold board screens will be fixed to the scaffolding where additional protection is required. The screens and scaffolding will be dismantled as the demolition progresses.



Demolition methodology

The Alexandra wing and New wing were constructed during different periods but similar methodologies will be implemented during the demolition process.

The demolition adjacent to the EDC will be carried out by hand and with small machines working from the roof down to ground level. The sequence and relevant control measures are as follows:-

- All operatives will receive a daily briefing and relevant tool box talks
- All works will be supervised at all times by a competent demolition supervisor
- Prior to commencement the project manager & demolition manager will check the condition of the structure to be demolished and a photographic record will be completed including any intrusive investigation works that are required.
- HOLD POINT If there are pre-existing cracks or abnormal features then advice will be sought from the client and heritage & engineering functions. The RAMS will then be updated as required to reflect the new found condition.
- Temporary works support will be installed to the buildings to be demolished to ensure that the machine/ debris loads can be distributed and that the structure remains stable throughout the demolition process.
- HOLD POINT approval of temporary works installation by the temporary works co-ordination / engineer prior to demolition
- All cut lines will be clearly marked in advance and the location of the listed elements will be briefed out to the workforce.
- Special considerations will be given to all the demolition works in close vicinity of the separation joint by using hand demolition methods and small machine only.
- All services will be isolated and cut along the joint line in advance of the demolition
- HOLD POINT: Keltbray to obtain "Permit to Demolish".
- Any roof coverings will be carefully removed using hand tools to expose the joint between the buildings.
- The operatives will use small and medium hand held breakers such as Hilti TE1000 to break out the brick from the existing separation joint between the two buildings.
- Once the brick wall has been safely detached along the separating joint line, a small size machine will carry on removing the remaining internal walls and structural elements using the standard demolition techniques as described in the following section 3.
- HOLD POINT If significant connections are found to exist or there are abnormal features or conditions then the works will cease and advice will be sought from the client and heritage & engineering functions.
- The methodology will then be revised and re-briefed to the workforce as appropriate.
- This sequence of work will continue working down floor to floor
- All demolition arisings will be cleared off the floor levels as the works progress, typically using a skidsteer loader.
- The demolition supervisor will inspect the joint line and the structure before and after every shift.
- HOLD POINT If any bricks are found to be loose then these will be carefully removed and set aside. If
 there are any larger areas of loose / poor brickwork then the works will cease in that area and advice
 will be sought from the client and heritage & engineering functions. Further support or temporary
 works may then be instructed as appropriate. Note; it is not expected that the adjoining buildings are
 keyed in to the EDC.
- As the demolition advances the old EDC brick façade will be exposed and if it's in good condition then it will be left as is. Where this is not the case then protection measures will be applied as agreed with heritage etc. Currently a felt and baton protection layer has been allowed to be fixed (with screws) on the vertical face of the wall and to protect any capping stones or exposed roof sections.
- Where redundant door openings are exposed to a leading edge then these will be blocked up and tied into the existing structure (fixing detail to be agreed).



- During the general demolition works it shall be ensured that any machines working on the floors and at ground level do not slew near the EDC building. Further control measures include –
 - a no go restricted zone using stop blocks and barriers to prevent the machine from travelling too close to the listed building
 - o an attendant banksman will work with the machine to ensure restricted zones are adhered to
 - machines will be zero swing type where possible to reduce the risk of the rear counterweight fouling the building

in addition the works will comply with the General Site Practices as given below:-

- All site operatives to be given site induction by ISG and Method Statement briefings and to attend regular toolbox talks (at least weekly).
- Daily task briefings held every morning for all operatives on site, prior to start of works
- CITB, CSCS, CCDO certification or equivalent as a minimum requirement for all personnel on site.
- All staff will be briefed on the Outline Demolition Method Statement, the Environmental Management Plan and the Noise, Dust and Vibration Management Plan.
- All signal slingers, 360° excavators, skid steer loaders and crane operators to have CPSP certification. In addition, the certification for the machines will be kept in the site file and will be available for inspection.
- Access platforms, scaffolding, cranes, excavators and lifting equipment will be checked regularly in accordance with current regulations.
- All of the works are to be under the direct control of experienced demolition foremen and managers.
- All holes in floors and exposed edges are to be provided with suitable handrails and toe boards compliant with current legislation.
- Warning signs and notices are to be prominently displayed in and around site.
- All access/egress corridors and staircases are to be kept free from obstruction at all times.
- Debris and materials will be cleared from floors to prevent excessive build up.
- All works at height, as far as reasonable practicable will be carried out utilising either scaffolding or alloy towers in full compliance with current regulations.
- All scaffolding will be erected by trained, competent scaffolders in accordance with a separately
 issued Scaffold Method Statement. All alloy towers will be erected by PASMA trained operatives and
 scaffold tagged.
- First Aiders, appointed Persons and First Aid kit(s) commensurate with the total number of site personnel will to be maintained on site. The names of First Aiders will be displayed in prominent locations.
- Firefighting equipment (carbon dioxide and foam fire extinguishers) under the control of operatives, trained in the use of the same, will be positioned in and around the works.
- Any hot works will be carried out in accordance with a hot works permit from ISG.
- Oxy/propane cylinders will be fitted with flashback arrestors and stored in a dedicated lockable cage in the open air. A fire point will be sited adjacent, complete with fire extinguishers.
- The site will be left in a structurally stable manner at the end of each shift.
- Any future changes to the Method Statement will be agreed with the Project Manager/Project Director prior to execution and the Method Statement reviewed, amended and approved accordingly.



2. Demolition of the Levy wing to the east of the EDC

Existing condition

Some shorts extracts from the Alan Baxter EDC Conservation Report ,Dec 2018 by are given below. **"The Levy Wing** was built at the same time as the EDC, but is separate from it. It comprises three storeys (including a lower-ground floor) and is built of brick with stone dressings. It is arranged around a courtyard, which contains three single-storey concrete huts, of a later date."



1931 aerial view of the site from the south-east. The newly constructed Levy Wing is to the rear of the Eastman Dental Clinic

The EDC abuts the Levy Wing in two locations along the east side as shown above. The old south wing can be seen to the north, this was replaced in 1989 by the New Wing.



The level 1 floor plan (above) and the 3D image (below) show the two locations where the Levy Wing abuts the EDC. The external staircase is also removed as part of the demolition.





Although the Levy Wing and EDC were built during the same period they are separate independent structures. It is assumed that the buildings abut each other, but are not structurally connected or keyed in. This is evidenced by the difference in the level and type of brickwork as shown above right.

Where necessary the existing condition can be proven by investigations. These would typically be 300mm x 300mm pockets in the adjoining buildings, carefully broken out using electric hand tools.

Protection measures



As stated previously additional scaffolds and screens (as shown in the figure above) will be erected during the demolition works to ensure protection of the EDC listed building.

The scaffolding will encapsulate the sections of the building that are to be demolished and also provide protection to the façade and windows of the EDC building.

Typically 'monarflex' (a reinforced plastic sheeted material) is fixed to the scaffold to provide an effective screen and to prevent any debris or material coming into contact with the adjacent EDC building. All scaffolds will be kept two metres above the demolition working level to ensure any debris is contained within the demolition work zone.

The scaffolding also provides access to inspect the retained elements and to reduce the visual and environmental impact of the works.

Localised timber ply / scaffold board screens will be fixed to the scaffolding where additional protection is required. The screens and scaffolding will be dismantled as the demolition progresses.



Demolition methodology

The Levy wing will be demolished using similar methodologies to those adopted for the Alexandra and New wing. That is; the demolition adjacent to the EDC will be carried out by hand and with small machines working from the roof down to ground level. The sequence and relevant control measures are described in the earlier section





3. Description of other works and demolition within the site

Erection of Fully monarflex encapsulated scaffold

The buildings will be fully encased in a demolition scaffold; this scaffold will run from the ground floor level up to the roof level of the building always maintaining a minimum height of at least 2M above the working level. Prior to any operative starting work on the site they will be given a ISG site induction followed by a Keltbray site induction and scaffolding MS briefing. Where they will be briefed on respective method statements and risk assessments. They will sign the appropriate registers to confirm their understanding of the requirements.

- The scaffolds will be erected in accordance with the NASC Note SG4:10 (The Use of Fall Arrest Equipment, etc.) and methods approved by NASC and the HSE.
- The demolition scaffold will be fully encapsulated in fire retardant monarflex; this will reduce the visual impact of the site during the demolition stages.
- Slab edge will be drilled and the eye bolt anchors installed as per the manufacturers guidelines.
- Pull out test will be carried out on a sample number of fixings.
- The fully detailed erection of scaffold will be covered in a separate method statement given by a specialist contractor.

Lift Car Removal

- Lower lift cars to basement level removed either manually or prior to electrical termination.
- Activate emergency brakes.
- Ensure lift shafts and immediate vicinity at sub-basement/pit locations are vacated.
- The lift shaft must be secured at all levels and appropriate warning signage erected.
- At lift motor room, sever wire bonds suspending counterweights at top of pulley wheel, using oxy/propane burning equipment operated under a 'Hot Works' permit system.
- Operator to stand back and work perpendicularly to the line of bonds to prevent injury from possible back injuries.
- Allow counterweights to fall under gravity onto the hydraulic buffer at sub-basement/lift pit level.
- Remove coil of wire bond from roof of lift.
- Board up/prop lift door openings to prevent unauthorised/inadvertent access below working level or debris bouncing out.
- Dismantle lift cars and lift pit equipment, buffers and remove counterweights to provide a clear lift pit.

Removal of roof structures

The roof(s) and high level structures will require removal prior to the demolition of the main structure. Only suitably trained operatives will undertake and supervise the roof works.

HOLD POINT: Keltbray to obtain "Permit to Demolish" from ISG.

- Small machines will be used to remove the roof, where this is not possible operatives will initially remove the slates by hand.
- The operatives will then the cut the roof members using various demolition methods such as "sit cut or drop cuts", to remove the pieces in a controlled sequence whilst maintaining overall stability.
- Where possible the operatives will work from the floor below and by using a safe working platform such as mobile towers.
- Where working from towers is not feasible, all operatives working at height will have undertaken sufficient training in working at height and must utilise rope fall arrest equipment,
- The materials will be progressively cleared off the floor below and then transferred to ground by crane or via a managed drop zone.
- Any stockpiling of material should be minimised as far as possible and access routes to the work area will be kept clear





Removal of roof mounted plant

Roof mounted plant will be cut up into manageable sizes and stored locally until a drop zone or mobile crane is in place to assist with removal.

- Sections will be cut utilising a mixture of electrical grinders, reciprocating saws and oxygen / propane cutting equipment.
- All hot works will be strictly controlled by a permit to work system.
- Leading edges will be protected with a solid double hand rails that will be erected in advance of the works.
- Where this is not possible then any works on leading edges will be risk assessed and suitable trained persons will carry out the work with the correct fall restraint equipment.

Floor-by-floor demolition

HOLD POINT: Keltbray to obtain "Permit to Demolish" from ISG. The Keltbray Demolition Considerations Checklist will also be completed in advance of the works to ensure the following criteria have been met:-

- 2 metre high monarflex screen in place above the working level

- WHP approval of the demolition sequence and size of machines checked against agreed loading on the floors,

- Area is free of all known asbestos (clearance certificate in place where applicable)
- Confirmation all services have been isolated
- Floor load testing to confirm weight restrictions for demolition plant and demolition arisings

- Permit to load for "Drop Zone" (Confirmation that any temp works has been built in accordance with Drawings and Specification)





- Permit to load for "Encapsulation Scaffold" (Confirmation scaffolding has been built in accordance with Drawing and Specification)

- Temporary propping to the floors is in place (if required) in accordance with the temporary works drawings

This section describes the procedure by which the building is reduced top-down one floor at a time. This method utilises mini-excavators, fitted with hydraulic pneumatic breakers or other suitable attachments, and combined with the use of bobcat skid-steer loading shovels to clear the material from the floors.

- A mobile crane will lift the mini excavators and skid-steer loaders on to the working level.
- All lifts will be carried out in accordance with a separately issued lifting plan under the control of a trained, competent slinger/signaller.
- The structures will be demolished using 360° mini-excavators fitted with hydraulic breaker or other suitable attachments such as powered pulverisers.
- The machines will break out the slab in accordance with the agreed sequence. The machine will sit on the existing slab when working, ensuring that only one 360° excavator is in any one bay at any time (a bay being a slab area between usually 4 columns or 2 beams).



 Only the driver is allowed to access the area beyond the A-Frames in order to get in and out of the machine - the plant operator will be position the machine to allow him to safely leave the cab and access behind the barriers.





• Any ramps must be designed by the TWD and approved in advance of the works. A permit to load will be issued.

The debris will be broken down onto the floor below, processed and separated to increase the efficiency of debris removal.

- Hydraulic pulverising attachments will be used as opposed to hydraulic breaking attachments where possible
- Concrete will be removed from any steel members utilising the above mention hydraulic attachments
- The removal of concrete encasing steal members will only be undertaken by hydraulic breakers where no other practical means are available
- Resultant demolition debris will be cleared from the floor using a skid-steer and deposited down the designated well hole/drop zone onto a rubble mattress on the ground slab then transferred to basement level backfilling the basement areas.
- The operation of the well hole will be strictly managed in accordance with the 'Well hole procedure'
- The rubble mattress will be generated by backfilling of basements areas with initial demolition arsing.
- The central area is to be demolished first, from the roof down to ground floor, this is to create an area on the ground floor to segregate / process demolition spoil and to load Lorries.
- As soon as physically possible the central area at ground floor level will be substantially backfilled, to give access to muck away lorries large excavators etc.
- The steelworks will be segregated from the hardcore, and the concrete separated from the steel beams and rebar sections using the hammer, muncher attachments of the machine or the sledge hammers. The long sections of steel members will be cut into short sections (no longer than 1.5M long) and lowered on the ground floor via the new drop zone setup in the location where the derelict building was located.
- For the duration when the mobile crane is on site, the large section of steel members will be lowered to the ground floor using the mobile crane.
- Where possible steelwork will be processed into suitable sizes for the bins at the working level.
- Where not possible the steelwork will be transferred via the drop zone to processing area at ground floor level. Once processed the steel will be loaded into bins via an excavator fitted with a suitable attachment.
- Initially our demolition manager assisted by our lifting supervisor will assess any loads for their weight and size. Our engineer will also be involved should there be any doubt. Once initial weights of steels have been establishes the section supervisor / crane co-ordinator and top ganger will set a specific number and length of steel to be lifted in any one lift therefore controlling the possibility of overloading the crane.
- At basement level waste materials will be cleared out of the building by an a mixture of an additional skid-steer loader / medium sized excavator, and fed to a larger 360° excavator for processing and/or loading away.
- The debris will be loaded into tipper wagons using a 20 30 tonne 360° excavator fitted with grapple and bucket attachments. Steel sections and salvageable materials will be loaded into skips.
- The cutting of any steel or concrete/rebar stanchions and beams will be carried out using oxy/propane burning equipment. And accessed from alloy tower or standard scaffold.
- A 'Hot Works' permit to work system will be enforced when any works of this nature are undertaken and fire extinguishers will be prominent. Hot works will cease one hour before



the end of a working shift and the area thoroughly checked prior to leaving site. All permits to work will be controlled by ISG .

- To prevent inhalation of toxic fumes operatives will wear 'Airstream' helmets or active charcoal Ori-Nazel masks during the burning/cutting of galvanised trunking or when fume densities persist whilst cutting other types of metal. The selection of the mask will be via the personal preference of the operator, subject to compliance with being fit for purpose.
- Only trained and competent operatives will carry out these works and segregate ferrous and non-ferrous material for subsequent recycling.
- Fire extinguishers will be provided and maintained at all areas of hot works. All hot works will be carried out in accordance with BM Hot-works permit system.
- The external brickwork/stonework panels will be demolished in sections and folded onto the floor slab using the 360° excavators. The operation will be executed in a controlled manner, ensuring the stone work being pulled over is not excessive in size and weight.
- The steel/concrete columns will be exposed close to the floor slab. The column will be severed using oxy/propane burning equipment and folded onto the slab. The operation will be executed in a controlled manner, ensuring the column being pulled over is not excessive in size and weight.
- Once the external columns and panels have been demolished the working level slab will be broken out using 360° excavators fitted with hydraulic breaker attachments in a bay-by-bay sequence. The 360° excavator will demolish the penultimate structural bay and will allow sufficient core materials to create a ramp to enable relocating on the lower level. The final bay will be broken out from the floor below.
- The arisings will then be cleared from all floor areas to the drop zone using the skid-steer loaders.
- The building will be demolished down to the 1st/2nd floor level or until a larger 20/30 tonne 360° excavator with extended or standard reach arm and pulverising/shearing attachment can be used safely to reach up and complete the works.
- A pulverising/shearing attachment will be used to remove all structures at all levels down to the ground floor slab level. Assistance will be given to the pulveriser by excavator with hammer attachment for structures at ground level and below.
- The excavator will adopt a logical top down progression removing all walls, columns and slabs down to ground floor level.
- The excavator will progressively break through the ground floor slab and backfill the basement in front of the demolition sequence
- The demolition will be assisted and excess demolition debris progressively cleared / processed by utilising large size excavators.
- Careful consideration will be given to the stability of the building at all times. Any load bearing walls will be identified prior to demolition commencing to ensure that they are maintained until redundant.
- Whilst demolition is in progress, adequate provision will be provided to inspect and survey the existing structure.
- All static noise sources will be sited (as far as reasonable practicable) well away from Party Walls and neighbouring properties to prevent excessive disturbance.
- Dust emissions will be controlled at the working face, drop zone, and loading away area by a fine water spray. The quantity of water emitted by the sprays will be regulated and controlled to prevent any flooding at ground/basement level.
- Where deemed necessary a separation cut between the building under demolition and neighbours building will be undertaken by hand to prevent vibration transfer.
- Fuel for the machines will be kept in a bunded bowser that will be kept in the site designated COSHH area. Spill kits will be kept on site in case of accidental spillage.
- Fuel will be taken to the work face by mobile crane in either the bunded bowser (with lifting certification) or in dedicated in small size drums. Any drums will be stored in drip trays.
- Operatives will wear rubber gloves whilst transporting fuel and when filling the drums.



- Keltbray Ltd will take all reasonable steps to avoid the outbreak of fire, particularly during 'hot' work involving the use of naked flame or intense heat. Where work necessitates the use of such equipment, appropriate and adequate portable fire extinguishers will be readily available. It will be impressed on the workforce that no smoking is allowed on site and the accumulation of rubbish must be prevented.
- Dedicated traffic marshals / banksmans will be deployed at the site entrance to control all pedestrian and traffic movements. They will be dressed in High Visibility clothing (Orange).
- The works will be supervised by a 'top-man' positioned at the working floor level, and a banksman positioned at ground level in full radio communication to control the "drop zone".
- Stringent fire precautions will be implemented and the material arisings regularly cleared to minimise floor loading.
- Operative walkway routes at the working floor will be kept clear at all times. The works will be undertaken from the highest floor downwards, strictly one floor at a time per building.
- PPE requirements for all operatives will be assessed in accordance with specific Risk and COSHH assessments, and enforced accordingly.
- Throughout the works, fine-mist water sprays will be used to control the soft-strip dust emissions at source, at ground level and the drop zone.

Removal of arising from High Level Demolition

Before any demolition is carried out a means of removing the demolition arising from the works area has to be established. Based on the site surveys completed by Keltbray, at this point, it has been decided that Keltbray will form drop zones taking advantage of the existing building geometry or a second option will be utilising the lift shafts within the building. It is in these areas that we intend to transfer the arising down to a larger machine for process and or loading away.

The purpose of the "well hole" or "drop zone" is to be of sufficient size, whist maintaining a secure zone to provide an internal chute for the vertical transfer of demolition arisings to the basement / yard level. Hence the name "well hole" or "drop zone"

- Board up any windows adjacent to the "drop zone" to prevent debris bouncing through, where necessary close off local access within the building adjacent to the "drop zone".
- Ensure all services are decommissioned that are likely to be affected by this operation.
- Prevent access to all areas below working level and provide the appropriate signage. All levels to be closed off as per permit to demolition instructions and design. Warning signs are to be displayed at the light well hole on each floor level to prevent materials being inadvertently dropped down on to the operatives working below. These signs are to remain until such times as the "well hole" is de-commissioned. Also when designated a "drop zone" a drop zone marshal will be permanently placed to police / marshal drop zone activities.
- At working level(s) the edges of the "well hole" will be protected by leaving the brickwork 1.00m high to prevent any loading machine from travelling over.
- Where this is not possible a hand rail no less than 1.00m high will be placed across any leading edges and a sufficiently sized bulk timber or steel member will be securely placed to prevent mechanical plant over shooting the desired stop points on the leading edge(s).
- A marshal will be positioned at the podium level of the well hole, in radio contact with the 'top ganger' in order to control the "drop zone". The drop zone area at the ground level will be barrier off from any access, including the restriction signage and controlled by a drop zone marshal. The operative controlling the podium level drop zone will have direct radio contact with the supervisor coordinating the works on the higher levels. Refer to permit to demolish for instruction and design
- The materials will be relocated from podium drop zone to level 1 where will be loaded away by the use of skid steers



5. Logistics

- All site operatives will receive a site induction and a method statement briefing prior to the start of works on site;

- In case of an emergency Keltbray will follow the site emergency plan.

- An appointed Keltbray first aider including a site first aid kit will be available in the Keltbray site compound

Supervision Details

A trained and authorised Demolition Manager will control and monitor all works on site. Each section of

works will be assigned to an authorised and trained demolition supervisor.

Neighbourhood liaison and communication – managed by ISG

Dust, noise and vibration monitoring will be carried out at least once a week and at the start of each process such as scaffold erection, and as a minimum commencement of demolition for each floor. Records of monitoring will be taken and produces on Keltbray monthly environmental report. For more information of these factors Keltbray will issue an Noise, Dust and Vibration Management Plan and Environmental Management Plan

ISG and Keltbray will also regulate and closely monitor all site traffic activities and impose strict rules applying to the movement of site related vehicles for technical information on vehicle movements see Keltbray

Keltbray management will deal with complaints sympathetically and as soon as reasonably practicable. All complaints received will be recorded, in a site complaints book retained in the site office, investigated, and any corrective action implemented and feedback given to the complainant. Camden Council will be advised of any complaint and actions taken to investigate the validity and any actions which have been put in place to rectify the situation if this is found necessary. This may include local monitoring. Noise, vibration and dust complaints received will be dealt with by the project manager supported by our environmental manager.

Access / Egress

A full traffic management plan will be undertaken and passed onto the work force at the initial site induction and via toolbox talks. The traffic management plan will be revised on a regular basis and prior to any major changes in works activities or site logistics, the following will be the general procedures and working practices:

- Only authorised personnel will be permitted in the building(s) having sat through a ISG induction.
- Access to the building and the working floors will be controlled by a Keltbray Security or Gateman in radio contact with Keltbray Management and Supervisors.
- Access/egress to the working areas will be controlled by a dedicated gateman/security guard.
- Access to high level demolition will be via 1 N° ladder accesses on either scaffold elevation. There
 will be a further two ladder access points for emergency escape purposes only.
- These routes are anticipated to change dynamically during the demolition process; any changes to the routes will be covered in the daily task briefings
- All plant movements around site will be controlled by a competent banksman in accordance with the site traffic plans. The traffic marshal will protect pedestrians whilst marshalling wagons on/off site and minimise mess that vehicles leaving site can cause.
- Pedestrian and vehicular movements will be segregated as much as possible bearing in mind the restrictions imposed by the existing building

Site Welfare

Site welfare will initially be maintained in the area designated by ISG.



All facilities will be cleaned daily to maintain hygiene and to prevent vermin. Any changes to the logistics of the welfare will be planned well in advance and passed on the work force. Welfare on site will be at all times maintained to at least the minimum standard as laid out in the project Health and Safety Plan.

Deliveries and Vehicle Movements

All deliveries to and from site, in particular H.G.V's, will be carefully controlled to ensure minimal disruption to the local environment is caused. The Site Manager will be aware of deliveries to the site in advance. A banksman will control and marshal deliveries. Lorries will not be allowed to cause congestion or nuisance around the site boundary.

An attendant banksman will guide the vehicles into the loading bay where the materials can be safely off loaded away from the general public. However in this instance special care will be needed to protect the public with the use of barriers and traffic marshals on hand to divert the public from the works. Materials to be checked and signed for before the delivery vehicle leaves site. Delivery dockets to be handed in to the site office for filing.

Site hours will be: Monday – Friday: 08.00 – 18.00. Saturday: 08.00 – 13.00

6. Hazards / Risks – Refer to risk assessments for further details

Note For full Risk Assessment refer to site risk assessment library.

Minor injury

First Aid

First Aiders, Appointed Persons and first aid kit(s) commensurate with the total number of site personnel will to be maintained on site. The names and photographs of First Aiders/Appointed Persons will be displayed in prominent locations; First Aiders/Appointed Persons will be issued with a radio to enable immediate contact at all times. First Aider(s) name(s) will be recorded on Keltbray notice board.

Permits to Work

Keltbray will issue a permit to demolish prior to the commencement of the works. Hot works to be carried out in strict accordance with a hot works permit. Hot works will cease one hour before the end of a working shift and the area thoroughly checked prior to leaving site. Any excavations will have a permit to dig prior to any works commencing. The entire permit to work system will be managed and overviewed by ISG.

LOLER / PUWER

Plant Details incl. hand tools and lifting equipment. Records of all plant including records of thorough inspections and weekly inspection logs will be maintained in the Keltbray site office. All electrical equipment must have current PAT test certification.

Special Considerations

All temporary works will be designed by Wentworth House Partnership, our "in house" structural and temporary works engineering department. All designs will be issued to *tbc* Engineering Department for final approval complete with supporting drawings and calculations, and will be subject to checking and approval via Keltbray own engineer.

It should be noted and considered that there is a possibility that further asbestos contaminated materials will be encountered during the demolition operations, following removal of the asbestos identified in the



R&D survey. Should this occur, a separate method statement may be required to be prepared and submitted to the HSE together with an ASB5 notification necessitating a minimum 21 day period before removal works can be undertaken

Temporary Lighting and Power

Keltbray will provide a suitable power source to enable the running of 110V task and emergency lighting and power to provide a safe working environment. The quantity and locations of these services will alter to suit the type and progress of the work.

Personal Protective Equipment

P.P.E required to be worn for these works are:

- Hard Hat.
- Safety boots.
- High visibility vest.
- Eye protection impact glasses for general works and movement on site; see below for tasks requiring specific eye protection.
- Gloves.

Additional P.P.E must be worn in accordance with the attached risk assessments and also where deemed necessary by the works supervisor.

- Dust Mask/ half mask.
- Ear protection.
- Goggles.
- Harnesses.

Hot works P.P.E

- Gauntlets.
- Half mask.
- Goggles.
- Air Stream Helmets (if necessary).
- Adequate supplies of ear defenders, eye protection, dust masks and other safety equipment will be available on site at all times. A personal protective equipment register will be completed and signed by each operative on receipt of the above.

COSHH

For full details of COSHH substances Refer to project COSHH register.

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. Keltbray 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, Keltbray will provide employees with, and ensure proper use of, suitable protective equipment that will adequately control their exposure.



Key Environmental Issues

Keltbray have planned demolition methods to minimise the environmental impacts; the specific information will be related in Keltbray Environmental Management Plan. For the purposes of this document a brief summary is provided below:

The methodology of 'floor by floor' and 'remote' demolition will be utilised to best control the environmental considerations relevant to the works. Our proposals are:

IMPACT VISUAL	<u>CONTROL MEASURES</u> Monarflex: encapsulated scaffold maintained 2m above working level.
NOISE	Monarflex encapsulated scaffold with 2.4m high separation hoarding between demolition zone and public/traffic areas. Use of machines with super silenced attachments. Use of well maintained, Keltbray owned, state of the art plant less than 4 yrs old. All static noise sources will be sited away from neighbouring properties to prevent excessive disturbance.
DUST	Fine water spray techniques will continue to be deployed as they have been for the duration of programme to keep the dust to a minimum. The wheels of vehicles leaving site will be cleaned using a high pressure jet wash if required. Details will be provided in the Environmental Management Plan.
VIBRATION	Site personnel will be instructed in environmental matters and BPM to reduce noise and vibration. They will be informed in the site induction into the surrounding environment. Measurements will be undertaken by a suitably competent person. Keltbray will employ best practical means to minimize vibration. Site personnel will be instructed in environmental matters and BPM to reduce noise and vibration. They will be informed in the site induction into the surrounding environment. Hardcore mats utilised to absorb energy from demolition arisings. Loading of material into vehicles within designated bays only. Sensitive location of drop zones and loading areas. All deliveries to be scheduled to occur during daytime hours only and engines to be switched off when waiting Hydraulic pulverisers, and shears used where ever reasonably practicable to minimise use of heavy breakers Keltbray will aim to use pulverisers wherever possible.
POLLUTION	Constant water control to dampen dust emissions utilising the water hoses, jet wash if required. Monarflex: encapsulated scaffolds. Adequate spill kits will be maintained on site.
DRAINAGE	Any existing gullies on site will have gully covers on protecting them at all times, there will be emergency gully covers and spillage kits on site at all times for any spillages on the road. For





	technical information please see Environmental Management Plan. Discharge license will not be required for the demolition works.					
CONGESTION	Constant traffic monitoring, controlled deliveries on and off site, marshalling compounds, holding areas. Loading of material into lorries within site boundaries only. All deliveries to be scheduled to occur during daytime hours only and engines to be switched off when waiting. For technical information on all traffic movements Keltbray will issue a Traffic Management Plan.					
HEALTH & SAFETY OF PUBLIC	Secure site perimeters, access control and signage. Monarflex: encapsulated scaffolds. Established safety zones. Demolition methodology					
Significant Hazards	Risks	Controls				
Working at height	Falls from height Materials falling from height	Personnel to use only designated and approved access to height, e.g. access scaffolding, man-rider, MEWP, and other approved access.				
		Any persons required to work at or near an open leading edge will wear a full body harness, fall restraint will be used rather than fall arrest by means of using a rope lanyard attached to a suitable anchor that will prevent a fall rather than arrest a fall.				
	Materials dropping from height onto site personnel causing serious injury / fatality	Ensure debris is cleared off leading edges during demolition of the balconies. Exclusions zones will be set up as required.				
Plant / vehicle	Striking of persons / plant /	Plant to work within exclusion zones				
movements	materials / structure	Unauthorised / accidental access to be controlled by forming and maintaining exclusion zones.				
		Traffic routes to be agreed and controlled by traffic marshals				
		Vehicles to be escorted through site by Keltbray traffic marshal. Loading area under control of Keltbray traffic marshal.				
Leading Edges	Falls from height Edge protection Materials dropping from height Fenced off exclusion zones					
Hot Works	Fire	Hot work permits, firewatchers, extinguisher and / or water hose. Fire retardant polystyrene protection in use.				
Noise & Dust	Damage to hearing / respiratory system. Environmental pollution.	Dust suppression. Ear & respiratory protection, exclusion zones.				



7. Control Measures (Permits, Exclusion Zones, PPE etc)							
Permits Required	Yes	No	Assessments (Attach If Yes)	Yes	No		
Hot Works	\checkmark		COSHH	\checkmark			
Crane check list	\checkmark		Noise	\checkmark			
Excavation	\checkmark		Manual handling	\checkmark			
Confined space entry		\checkmark	Electrical Isolation	\checkmark			
Riser shafts	\checkmark						
Further Control Measures / Security	Requirem	ents.					
As stated above, due to the nature of t working areas without express permise	he works b sion for the	eing carri site mana	ed out on the site, no personnel are tager or the supervisor in charge of the	o enter the at area of w	building / /orks.		
Prior to works commencing all relevan removal of hazardous materials, surve scope of works covered by this MS – in	t precaution ys etc. (this nclude spec	ns must be s list is not cific items	e in place e.g. safe access, electrical t exhaustive and items are dependen in section 3 above	disconnec t on the sp	tions, ecific		
Personal Protective Equipment	Yes	No		Yes	No		
Safety Helmet – BS EN 397	\checkmark		Gloves BS EN 388	\checkmark			
Protective Footwear - BS EN 345	\checkmark		Hearing Protection BS EN 352	\checkmark			
High Visibility Clothing - BS EN 471	\checkmark		Fire Proof Overalls - BS EN 531	\checkmark			
Eye protection BS EN166	\checkmark		Body Harness BS EN361	\checkmark			
Face Respirator BS EN 140	\checkmark		Other? (state) Hard Hat EN 12492	\checkmark			
	Vaa	No	Equipment To Do Lload	Vee	No		
Lifting	res	INO		res			
Materials hoist	V (Excavation shoring		V		
	V /		Ventiletion Equipment	1	V		
	V /			V (
Passanger Heist	V		Machanical tools	V (
		V	Lifting alings/abains	V			
test)	\checkmark		Linning sings/chains	\checkmark			
Task Lighting	\checkmark		Mechanical plant (State) hand held breakers, floor saw,	\checkmark			
Scaffolding	\checkmark						
Mobile scaffolds	\checkmark						

8. Resources

Management / Supervision

1no Site manager - visiting

1no Site Foreman

Labour	Plant & Equipment
Operations director (visiting) Project surveyor (visiting) Wentworth House Engineer (visiting) Environmental monitoring officer (visiting) Safety officer (visiting) Demolition Manager Site Manager Site Engineer Section supervisors Up to 15 CPCS operatives, plant operators , banksmen, traffic marshals etc Up to 20 General operatives Up to 20 demolition operatives Up to 10 scaffolders Admin staff	 1 No mobile crane - visiting 1.5 – 30 tonne 360° excavator- hydraulic cruncher / breakers 30 tonne 360° excavator- 20 tonne 360° excavator 4 – 8 tonne 360° excavators- fitted with breaker attachment (for high level demolition). (<i>Size of the plant use, dictated by engineering surveys and HWP calculations</i>) Skid-steer loaders Oxy/Propane Burning Plants Hand tools including, mattocks, nail bars, sledge hammers and screw drivers. Wheelie bins and wheel barrows. Electric and pneumatic hand tools including breakers fitted with vibration reduction devices, petrol saws and grinders.
Materials	

All material deliveries to site will be advised in accordance with Keltbray 'Delivery Access Control' procedures. A record of all materials delivered will be held on site, and these records made available for inclusion in the 'Operations and Maintenance' manual where required.

All timber will be from a FSC approved supplier or re-use from Keltbray pre owned stock.

9. Training & Supervision

Training Certificates Required No Yes No Yes Mobile Elevating Scaffold $\sqrt{}$ $\sqrt{}$ Platform **Mobile Access** Forklift \checkmark $\sqrt{}$ Towers / steps Dumper $\sqrt{}$ Banksman $\sqrt{}$ Excavator \checkmark Abrasive Wheels $\sqrt{}$ Mobile Crane Tower crane $\sqrt{}$ \checkmark Skid steer $\sqrt{}$ Others (Please state):





Overall Assessment of Risk after the Implementation	on of Control Measures (tick one)												
Low Moderate Substantial High													
\checkmark													

10. Emergency Arrangements	
First Aid Measures required	Security Measures required
First aid boxes to be kept onsite at security, site compound, and site office	Exit the building and make your way to the Muster Point, as per the Fire Plan
Report all incidents, near misses and hazards to Keltbray site management or via the Keltbray SOS System	
Rescue Measures	
By demolition team to be trained in rope/harness recovery systems	Appointed Person
Rescue from height training to be undertaken Contact details for emergency services to be posted in prominent areas	Call emergency services 999
Site Address	256 Grays Inn Rd, London WC1X 8LD
Nearest A&E Hospital	University College Hospital 235 Euston Road London NW1 2BU Tel: 020 3456 7890

11. Contractor Monitoring & Compliance				
Who is accountable for monitoring compliance with the method statement?	Demolition Ma	anager		
Will any test / sampling requirements impose compliance standards?	Yes		No	\checkmark
If yes, who will carry them out and with what equipment?				

12. Appendix A – Risk Assessments





Operation/Task Lifting operations using orane KA Marter (A Curing Domulics Multicd Bisinghout Stept Image of the Steph of the		Hazard/Risk Assessment															
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1 Entrepment, personal injury 4 4 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 5 Check all equipment mad lifting test certificates are in date. 1 4 1 4 1 5 Check certificates. 4 1 4 1 5 Check certificates. 7 Singers/ Signaler Signaler Signaler 5 Signaler Signaler <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>maintained betwe</td><td>en items of plant.</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										maintained betwe	en items of plant.						
Image: Starty using barriers and signs. Do not exceed maximum allowed SWL Image: Starty using barriers and signs. Do not exceed maximum allowed SWL Image: Starty using barriers and signs. Do not exceed maximum allowed SWL Image: Starty using barriers and signs. Do not exceed maximum allowed SWL Image: Starty using barriers and signs. Do not exceed maximum allowed SWL Image: Starty using barriers and signs. Do not exceed maximum allowed SWL Image: Starty using barriers and signs. Do not exceed maximum allowed SWL Image: Starty using barriers and signs. Do not exceed maximum allowed SWL Image: Starty using barriers and signs. Do not exceed maximum allowed SWL Image: Starty using barriers and signs. Do not exceed maximum allowed SWL Image: Starty using barriers and signs. Do not exceed maximum allowed SWL Image: Starty using barriers and signs. Do not exceed maximum allowed SWL Image: Starty using barriers and signs. Do not exceed maximing. Image: Starty using barriers and signs. Do not exceed maximing. Image: Starty using barriers and signs. Do not exceed maximing. Image: Starty using barriers and signs. Do not exceed maximing. Image: Starty using barriers and signs. Do not exceed maximing. Image: Starty using barriers and signs. Do not exceed maximing. Image: Starty using barriers and signs. Do not exceed maximing. Image: Starty using barriers and signs. Do not exceed maximing. Image: Starty using barriers and signs. Do not exceed maximing. Image: Starty using barriers and signs. Do not exceed maximing. Image: Starty using barriers and signs. Do not exceed maximing. Image: Starty using barriers and signs. Do not exceed maximing. <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>*Keep work area</td><td>clear with exclusion zo</td><td>ones as</td><td></td><td></td><td></td><td></td><td></td></td<>										*Keep work area	clear with exclusion zo	ones as					
Image: Construct of the construction of the construction and weed SVL in the construction of the construction of the construction of equipment and lifting test certificates are in data. Image: Construction of equipment and lifting test certificates are in data. Image: Construction of equipment prior to any lifting operations. Image: Construction of equipment prior to any lifting operations. Image: Construction of equipment prior to any lifting operations. Image: Construction of equipment prior to any lifting operations. Image: Construction of equipment prior to any lifting operations. Image: Construction of equipment prior to any lifting operations. Image: Construction of equipment prior to any lifting operations. Image: Construction of equipment prior to any lifting operations. Image: Construction of equipment prior to any lifting operations. Image: Construction of equipment prior to any lifting operations. Image: Construction of equipment prior to any lifting operations. Image: Construction of equipment prior to any lifting operations. Image: Construction of equipment prior to any lifting operations. Image: Construction of equipment prior to any lifting operations. Image: Construction of equipment prior to any lifting operations. Image: Construction of equipment prior to any lifting operations. Image: Construction of equipment prior to any lifting operations. Image: Construction of equipment prior to any lifting operations. Image: Construction of equipment prior to any lifting operations. Image: Construction of equipment prior to any lifting operations. Image: Construction of equipment prior to any lifting operations. Image: Construction of										necessary, using	barriers and signs.						
Failure of lifting equipment441616Check all equipment and lifting test certificates are in date. "Thorough check certificates." "Thorough check certificates." "Thorou										"Do not exceed i	naximum allowed SVVL						
Image: Supervisor, SignallerSignallerSignaller1Lifting operations using Tower Crane (TC)Injury from falling equipment and materials44416*Maingers/signaller414416*Maingers/signaller414416*Maingers/signaller414416*Maingers/signaller *Maingers/signaller414416*Maingers/signaller *Maingers/signaller *Maingers/signaller414416*Maingers/signaller *Maingers/signaller *Maingers/signaller *Maingers/signaller *Maingers/signaller *Maingers/signaller *Maingers/signaller *Maingers/signaller *Hard hats, high visibility clothing, gloves and safety fotware to be warn at all times.414416*Maingers/signaller *Maingers/signaller *Hard hats, high visibility clothing, gloves and safety fotware to be warn at all times.414416*Maingers/signaller *Hard hats, high visibility clothing, gloves and safety fotware to be warn at all times.41440Operatives & Supervisor, SignallerSite Manager Supervisor, Signaller1Load in stability3412*Ensure qualified slingers.signallers use approved methods, ref to lifting plant inform the position *Use of gluided during lift in/off to the position *Use of gluided during lift in/off to the position *Use of gluide during lift in/off to the p					Failure of lifting equipr	nent	4	4	16	*Check all equip	ment and lifting test cer	tificates	4	1	4	Lifting	Site Manager
Image: Interpret in the section of equipment prior to any lifting operations.Image: Interpret interpr										are in date.						Supervisor,	
Image: Signalier Signalier Signalier Signalier Image: Signalier Signalier Signalier Signalier Image: Signalier Image: Signalier Signalier Signalier Image: Signalier Signalier Signa										* Thorough check	certificates.					Slingers/	
Image: Instant in the image: Instant i										*Visual inspectio	n of equipment prior to	any lifting				Signaller	
1 Lifting operations using Tower Injury from falling equipment and materials 4 4 1 6 1 4 1 4 1 4 AP, Lifting Supervisor, Signaling under control of appointed singers/signaling under control of appointed singers/signaling between crane driver & singer/signaling under control of appointed singers/signaling under control of appointed singers/signaling between crane driver & singer/signaling under control of "*Keep work area clear & establish exclusion zones for lifting operations." 4 1 4 AP, Lifting Supervisor, Singers/ Signalier 1 Lifting operations. Entrapment , personal injury 4 4 16 *Message appropriate 4 1 4 AP, Lifting Supervisor, Singers/ Signalier 1 Lifting operations. Entrapment , personal injury 4 4 16 *Establish means of signaling gloves and safety footWear to be warn at all times. 4 1 4 Operatives & Supervisor 1 Load in stability 3 4 16 *Establish exclusion zones, erecting barriers with appropriate signaliers. 4 1 3 Lifting supervisor 1 Load in stability 3 4 12 *Entrapment of people in area 3 1 3 Lifting supervisor										*Chock cropp dr	ivers are qualified prior	r to					
Image: Constraint of the second of the sec										commencing lifti	no opertions (e.g. CPC	S training					
Image: Check F91 register Check F91 register Check F91 register Check F91 register 1 Lifting operations using Tower Injury from falling equipment and materials 4 4 16 *All slinging and signalling under control of appointed slingers/signaler 4 1 4 AP. Lifting Supervisor, Slingers/ Slingerslinder Content Slingers/ Slingers/ Slingerslind										card or specific	equipment training)	ouaning					
1 Lifting operations using Tower Crane (TC) Injury from falling equipment and materials 4 4 16 *All slinging and signalling under control of appointed slingers/signaller 4 1 4 AP, Lifting Supervisor, Slingers/Signaller *Keep work area clear & establish exclusion zones for lifting operations. *Establish means of signalling between crane driver & slinger/signaler (i.e. site radio etc.) *Brief everyone involved in lift operations on risks *Use tag lines as appropriate *Hard hats, high visibility clothing, gloves and safety footwear to be warn at all times. 4 1 4 0peratives & Supervisor, Signaller 1 Load in stability 4 4 16 *Establish exclusion zones, erecting barriers with appropriate signage. 4 1 4 0peratives & Supervisor 1 Load in stability 3 4 12 *Ensure qualified slingers.signallers use approved is guide during plan 3 1 3 Lifting supervisor 1 Load in stability 3 4 12 *Ensure qualified slingers.signallers use approved is guided during plan 3 1 3 Lifting supervisor 1 Load in stability 3 4 12 *Ensure qualified slingers.signallers use approved is guided during lift in/off to the po										*Check E91 regi	ster						
Crane (TC)materialsImaterials <t< td=""><td>1</td><td>Lifting operat</td><td>tions using ⁻</td><td>Tower</td><td>Injury from falling equi</td><td>pment and</td><td>4</td><td>4</td><td>16</td><td>*All slinging and</td><td>signalling under contro</td><td>lof</td><td>4</td><td>1</td><td>4</td><td>AP, Lifting</td><td>Site Manager</td></t<>	1	Lifting operat	tions using ⁻	Tower	Injury from falling equi	pment and	4	4	16	*All slinging and	signalling under contro	lof	4	1	4	AP, Lifting	Site Manager
Image: Single in the section of the		Crane (TC)	0		materials					appointed slinger	s/signaller					Supervisor,	0
Image: Signal base in the second se		. ,								*Keep work area	clear & establish exclu	usion				Slingers/	
Image: Second										zones for lifting o	operations.					Signaller	
driver & slinger/signaler (i.e site radio etc.) *Brief everyone involved in lift operations on risks *Use tag lines as appropriate *Hard hats, high visibility clothing, gloves and safety footwear to be warn at all times.Image: Image:										*Establish means	s of signalling between	crane					
BindBi										driver & slinger/s	ignaler (i.e site radio e	tc.)					
Image: Solution of the section of t										*Brief everyone	involved in lift operation	ns on risks					
Image: Selection of the se										*Use tag lines as	appropriate						
Image: State of the state							1			*Hard hats, high	visibility clothing, glove	s and					
Image: Note of the stabilityImage: Note of the stability <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>satety footwear t</td> <td>o be warn at all times.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>										satety footwear t	o be warn at all times.						
Entrapment , personal injury4416*Establish exclusion zones, erecting barriers with appropriate signage. *Limit number of people in area414Operatives & SupervisorSite ManagerLoad in stability3412*Ensure qualified slingers.signallers use approved methods, ref to lifting plan *Load is guided during lift in/off to the position *Use of guide rope31313Lifting supervisorSite ManagerSlips and trips and fall3412*Keep access route clear of obstruction *Install pedestrian access where practicable313Lifting supervisorSite Manager																	
Image: Supervisor Image: Supervisor Supervisor Image: Supervisor Load in stability 3 4 12 *Ensure qualified slingers.signallers use approved methods, ref to lifting plan *Load is guided during lift in/off to the position *Load is guided during lift in/off to the position *Load is guided during lift in/off to the position *Load is guided during lift in/off to the position *Load is guided during lift in/off to the position *Install pedestrian access where practicable 3 1 3 Lifting supervisor Slinger and signaller		Entrapment, personal injury					4	4	16	*Establish exclus	ion zones, erecting ba	rriers with	4	1	4	Operatives &	Site Manager
Image: Signal stability										appropriate signa	age.					Supervisor	
Load in stability 3 4 12 *Ensure qualified slingers.signallers use approved methods, ref to lifting plan 3 1 3 Lifting supervisor Slinger and signaller Slips and trips and fall 3 4 12 *Keep access route clear of obstruction *Install pedestrian access where practicable 3 1 3 Lifting supervisor Slinger and supervisor Slinger and signaller										*Limit number of	people in area						
Image: State in S					Load in stability		3	4	12	*Ensure qualified	slinders signallers us	approved	3	1	3	Lifting	Site Manager
Number Starting pairs Number Starting pairs Number Starting pairs Number Starting pairs *Load is guide during lift in/off to the position Slinger and signaller Slips and trips and fall 3 4 12 *Keep access route clear of obstruction *Install pedestrian access where practicable 3 1 3 Lifting supervisor Site Manager supervisor							5	-	12	methods ref to li	fting plan	2 appi oved			5	supervisor	Cito Manager
Image: Non-State of the state of the sta										*Load is guided	during lift in/off to the c	osition				Slinger and	
Slips and trips and fall 3 4 12 *Keep access route clear of obstruction 3 1 3 Lifting Site Manager Image: Slips and trips and fall 3 4 12 *Keep access route clear of obstruction 3 1 3 Lifting Site Manager Image: Slips and trips and fall 3 4 12 *Keep access route clear of obstruction 3 1 3 Lifting Site Manager Image: Slips and trips and fall 3 4 12 *Keep access route clear of obstruction 3 1 3 Lifting Site Manager Image: Slips and trips and fall 3 4 12 *Keep access route clear of obstruction 3 1 3 Lifting Site Manager Image: Slips and trips and							1			*Use of guide ro	pe					signaller	
*Install pedestrian access where practicable Singer and Singer and Singer and		Slips and trips and fall					3	4	12	*Keep access ro	ute clear of obstruction	1	3	1	3	Lifting	Site Manager
Slinger and								Ť	. ~	*Install pedestria	n access where practic	able	Ĩ		5	supervisor	
											province province					Slinger and	



	Hazard/Risk Assessment															
000	ration/Tack:	Lifting one	rations usin	a tolohandlor					RA Number	1B					Sheet	see footer
Ope	auon/ lask.	Linung ope	rations usin	g teleriaridier					MS Name	Outline Demolition Me	thod Statem	nent				
	otion/Aroo:		to of Nouro	logi					MS No	KB-MS-DC1215-002		RAW	/ritten	n by	Nathan Kennedy	,
LOC	alion/Area.			logy					Name of person	completing Assessmer	nt	Cam	eron	Willc	ock	
									KEY							
	Severity	•		Likelihood	Ris	< Rati	ng			Catastrophic	Extremely	Harr	nful		Harmful	Slightly Harmful
4	Very severe		4	Very high	13-16	Intol	erabl	е	Very likely	16	12	2			8	4
3	Severe		3	High	8-12	Sub	stanti	al	Likely	12	9				6	3
2	Minor		2	Moderate	5-7	Mod	erate	•	Unlikely	8	6				4	2
1	Negligible		1	Low	1-4	Tole	rable		Highly unlikely	4	3				2	1
Ар	proved by:		Cor	nstantin Varzari		Sign	ature)					Date	:	19/0)2/2020
						Ric	k Ra	tina				Ric	k Ra	ting		Monitoring
Itom	Activity			Hazarde/Risks Identifi	ed	5		RR RR	Control			S		PP	Responsibility	Responsibility
1	1 Lifting operations using telehandle			Overturning of the tele	hadler	4	4	16	*Appointed perso duties to Lift Sup *Telehandler fou *Plan access rou overhead service *Keep work area	on will draw a lift plan 8 ervisor nded on a tested grour tte, account for any ha s. clear with exclusion zo	delegate d base. izards, i.e.	4	1	4	AP, Lifting Supervisor, Slingers/ Signaller	Site Manager
				Failure of lifting equip	ment	4	4	16	*Check all equip are in date. *Visual inspectio operations. *Check telehand commencing lifti *Check F91 regi	y barriers and signs. ment and lifting test cer n of equipment prior to ler operator is qualified ng opertions. ster	ntificates any lifting I prior to	4	1	4	Lifting Supervisor, Slingers/ Signaller	Site Manager
				Injury from falling equi materials	ipment and	4	4	16	*All slinging and appointed slinge *Keep work area zones. *Establish means telehandler opera *Brief everyone *Hard hats, high safety footwear t	signalling under contro s/signaller clear & establish exclu s of signalling between ator & slinger/signaler. Involved in lift on assos visibility clothing, glove o be warn at all times.	l of usion iated risks es and	4	1	4	AP, Lifting Supervisor, Slingers/ Signaller	Site Manager
1	Lifting operations using telehander		Entrapment , personal	injury	4	4	16	*Establish exclus appropriate sign *Limit number of *Banksman pers movement aroun	ion zones, erecting ba age. people in area on assissting with teleh d work area.	rriers with andler	4	1	4	Operatives & Supervisor	Site Manager	
			Load in stability		3	4	12	*Ensure qualified telehandler *Refer to lifting p *Load is guided *Use of guide ro *Ensure forks ar manner of balam *Ensure removal prior lifting out.	I/competent person op lan during lift in/off to the p pe, tag lines if requirec e set in mid span posit ced lift. ole slab sections are se	erating position I ion, in the ecured	3	1	3	Lifting supervisor Slinger and signaller	Site Manager	
				Slips and trips and fall	s	3	4	12	*Keep access ro	ute clear of obstructior	n	3	1	3	Lifting supervisor Slinger and	Site Manager

	Hazard/Risk Assessment RA Number 3 Sheet see footer															
0.000	ration/Teals		مارزم مريمانه	n ala atria ta ala					RA Number	3					Sheet	see footer
Ope	eration/ Task:	Drilling/Brea	aking using	g electric tools					MS Name	Outline Demolition Me	thod Statem	nent				•
	otion/Area:			logy					MS No	KB-MS-DC1215-002		RAW	/ ritter	ı by	Nathan Kennedy	
LOC	alion/Area.			ilogy					Name of person	completing Assessme	nt	Cam	neron	Willc	ock	
									KEY							
	Severity	,		Likelihood	Ris	k Rat	ing			Catastrophic	Extremely	Harr	nful		Harmful	Slightly Harmful
4	Very severe		4	Very high	13-16	Intol	erabl	е	Very likely	16	1:	2			8	4
3	Severe		3	High	8-12	Sub	stanti	al	Likely	12	9)			6	3
2	Minor		2	Moderate	5-7	Mod	erate	;	Unlikely	8	6	;			4	2
1	Negligible		1	Low	1-4	Tole	rable	1	Highly unlikely	4	3	;			2	1
Ар	proved by:		Cor	nstantin Varzari		Sigr	nature	9		Hefe			Date	:	19/0	02/2020
				[- D.										
Itom	A otivity	Hozordo/Dioko Idooti	icd	Ris	к Ка	ung	Control			Ris	sk Ra	ung	Responsibility	Ivionitoring		
1 Item	Activity	Drilling/Breaking using electric Electric shock						12	Control	e toole to opouro in ao	od	3	1	2	Drilling	Responsibility
'	tools	Filling/Breaking using electric Electric shock					4	12	condition before	use. PAT equipment	ou	5		5	Operatives	Site Manager
	Drilling/Breaking using electric tools		Eye damage from fly debris/dust	ing	3	4	12	*Establish exclus barriers and sigr *All personnel we wear eye protect * Use of portable	ion zone limiting acce hage brking within exclusion tion, BS EN 166B grac water pumps to suppr	ss using zone to le 1 impact ress dust	3	1	3	Drilling Operatives & supervisor	Site Manager	
					5	4	12	*All personnel we wear hearing pro 102DbA) to BS E	age orking within exclusion stection. (generic nois EN 352.	zone to se level	5	I	3	Operatives & supervisor		
				Inhalation of dust		3	4	12	*Use local water supress dust *Good ventilation *All personnel w FFP3 masks. Th the operative	line/portable hand pun - if not then forced ve orking within work area ese masks are to be fa	nps to entilation a to wear ace fitted to	3	1	3	Operatives & Supervisor	Site Manager Project Manager
	Cuts and abrasions to hands				o hands	3	3	9	*Wear protective	e gloves to BS EN 374		3	1	3	Drilling Operatives &	site Manager
1	1 Drilling/Breaking using electric HAV's tools			4	4	16	* Selection of the vibration levels p * The vibrations Manaufacture ar attached to calcu * The usage will times recorded b * Provide anti vib	e tools to allow for the l ossible. levels pulbished by the e to be feed into the H ulate the permitted usa- be monitored with the by the supvisor in char- oration gloves.	owest SE table as ge. trigger ge.	4	1	4	Operatives & Supervisor	Site Manager Project Manager		

	Hazard/Risk Assessment RA Number 6 Sheet see footer															
000	rotion/Tack:	Woking at	hoight						RA Number	6					Sheet	see footer
Ope	ration/ task.	woking at	neight						MS Name	Outline Demolition Met	hod Statem	nent				
1.00	ation/Area:	LICI Institu	te of Neuro						MS No	KB-MS-DC1215-002		RAV	Vritter	ı by	Nathan Kennedy	
LUC	allon/Area.			ilogy					Name of person	completing Assessmen	t	Carr	neron	Willc	ock	
									KEY							
	Severity			Likelihood	Ris	k Rat	ing			Catastrophic	Extremely	Harr	mful		Harmful	Slightly Harmful
4	Very severe		4	Very high	13-16	Intol	erabl	е	Very likely	16	12	2			8	4
3	Severe		3	High	8-12	Sub	stanti	al	Likely	12	9				6	3
2	Minor		2	Moderate	5-7	Mod	erate)	Unlikely	8	6				4	2
1	Negligible		1	Low	1-4	Tole	rable		Highly unlikely	4	3				2	1
												r				
Ар	proved by:		Cor	nstantin Varzari		Sigr	ature	9		ACK			Date	•:	19/0	2/2020
										·						
-	1					Ric	k Ra	tina				Rid	sk Ro	tina		Monitoring
Item	Activity			Hazards/Risks Identifi	ied	S		RR	Control			S		RR	Responsibility	Responsibility
1	Working at h		Personnel falling from	n height	4	4	16	*Work off approx	oriate working platform	(i.e. allov	4	1	4	Operatives &	Site Manager	
	i i onang at n	Vorking at height Personnel falling from heig							tower (PASMA).	scaffold tower), handra	ails. toe-				Supervisor	ono managoi
									boards, debris n	etting as required.						
									*Scaffold edge p	rotection to be erected	by CITB					
									scaffolders + sca	aff tag						
									*7 day recorded	scaffold inpection to be	e carried					
									out							
									*Visual scaffold	handrail daily checks p	rior start					
									of works.							
									*Alloy towers ere	ected by trained operati	ves					
									*Work involving I	eaning out or if working	g outside					
									appropriate work	ing platform (i.e. Open	leading					
									edge), full body s	safety harness must be	worn at					
									all times connect	ed to appropriate anch	or point					
1	Working at h	eight		Falling materials/equir	oment from	4	4	16	*Work platforms	sheeted to prevent mat	erials	4	1	4	Operatives &	Site Manager
	t on any at t	orgin		height					falling through ga	aps, toe boards.	ornalo			-	Supervisor	ono managoi
									* Exclusion zone	s set up to prevents un	athorised					
									persons accessi	ng at level below work u	using solid					
									barriers and sigr	is.	0					
									*,Exclusion zone	to be installated during	Scaffold					
									protection installa	ation						
									* Exclusion zone	to be reviewed during	demolition					
									activitiy by super	visor						
									*Continues supe	rvision, review of work	process					
									by Keltbray.							
									*Keep working p	latforms and keep clear	r of any					
									obstructions.							
									*Do not store any	y materials/equipment a	at the					
									edges of scaffold	t .						
									*Any opening/ga	ps to be covered using	plywood					
									or other hard typ	e material (e.g steel pla	ates)					
									*Generated wast	e to be cleared progres	sively					
									preventing overlo	bading of the work platfo	orms.					
									^ All Tools to be t	tethered						



	Hazard/Risk Assessment															
_			<u>.</u>						RA Number	7					Sheet	see footer
Ope	eration/Task:	Cutting ste	el						MS Name	Outline Demolition Me	thod Statem	ent				
									MS No	KB-MS-DC1215-002		RAV	Vritter	by	Nathan Kennedy	
Loc	cation/Area:	UCL Institu	ite of Neuro	logy					Name of person	completing Assessmer	nt	Carr	neron	Willo	ock	
									KEY							
	Severity			Likelihood	Ris	k Rat	ina			Catastrophic	Extremely	Harr	mful		Harmful	Slightly Harmful
4	Verv severe		4	Verv high	13-16	Intol	erabl	е	Verv likelv	16	12	2			8	4
3	Severe		3	High	8-12	Sub	stanti	al	Likely	12	9				6	3
2	Minor		2	Moderate	5-7	Mod	lerate		Unlikely	8	6				4	2
1	Negligible		1	Low	1-4	Tole	rable		Highly unlikely	4	3				2	1
Ар	proved by:		Cor	nstantin Varzari		Sigr	nature	•		AG			Date	:	19/0	02/2020
	1			Ι		Ric	k Ra	ting	-			Rie	ek Ro	ting	-	Monitoring
Item	Activity			Hazards/Risks Identifi	ed	S		RR	Control			S		RR	Responsibility	Responsibility
1	1 Cutting steel using oxy/propage Fire/Explosion							16	*Ensure trained	experienced operative	S 1180	3	1		Operatives &	Site Manager
	1 Cutting steel using oxy/propane burning plant Fire/Explosion Eye injury to burner						4	10	 equipment *Daily inspection *Gas bottles in b strap to the colur *Flash back arree *Hot work permit *Fire watchman additionally, live hose line). *Minimise combution *Leak sprays to identify any possist water). 	of hoses and equipment of hoses and equipment ottle cage/trolley, or se nn or oxy cage. stor fitted are requested and iss in place with fire exting water feed available (i.e. ustible materials. be used during checks sible leakage (do not us	ent cured with uisher, e. water s to se soap	7			Supervisor	
				Eye injury to burner		3	4	12	*Eurner to wear *Exclusion zone *Hearing protect EN 352	eye goggles/visor to B is in place ion to be worn by burn	er to BS	3	1	3	Operatives & Supervisor	Site Manager
		Exposure to lead					4	16	*All operative inv briefed in accord prior any work a *TBT/introduction prior any cutting *Full PPE to be overal, gautlets) *Personal hygier *Follow guideline *Use of set up w at the end of the * Kelthrow Lead	oled in lead removal ac dance with set up KB p ctivity. In to be delivered to all b cativity on site lead pro- worn (full/half face mas during cutting works be during working day s set by KB ashing facility before b shift.	tivity to be rocedures ocedures ocedures. k, burning reaks and	4	1	4	Operatives & Supervisor	Site Manager
		Burns Fumes causing respiratory						12	*Hands, arms ar by appropriate c *Leather gauntle *Alternative, leatt overals are not a *Spats or under	lothing (i.e. burning ow lothing (i.e. burning ow is to be worn. her jackets to be worn i vailable. closing to be work belo	if burning	3	1	3	Operatives & Supervisor	Site Manager
		Fumes causing respiratory disease and systemic poisoning						16	*Good natural ve *Use of filtered e minimise fumes *Wear half mask during burning/c	ntilation xtraction fan, if require within the area. / full face filtered prote utting process	ed, to ection	4	1	4	Operatives	Site Manager

					-		Haz	zard	/Risk Assess	nent	•			•	•	
Opora	tion/Took:	Looding w	acone with	oveovetor					RA Number	8					Sheet	see footer
Opera	11011/1d5K.	LUaung wa	agons with	excavalor					MS Name	Outline Demolition Me	thod Statem	nent				
Locat	ion/Aroo:	LICI Institu	to of Nourc						MS No	KB-MS-DC1215-002		RAV	Vritter	n by	Nathan Kennedy	
LUCA	iun/Area.			лоду					Name of person	completing Assessmer	nt	Carr	neron	Willc	ock	
									KEY							
	Severity			Likelihood	Risk	Rati	ing			Catastrophic	Extremely	Harr	mful		Harmful	Slightly Harmful
4 V	ery severe		4	Very high	13-16	Intol	erabl	е	Very likely	16	12	2			8	4
3 S	3 Severe 3 High 8-12					Subs	stanti	al	Likely	12	9				6	3
2 N	2 Minor 2 Moderate 5-7				5-7	Mod	erate)	Unlikely	8	6				4	2
1 N	1 Negligible 1 Low 1-4					Tole	rable		Highly unlikely	4	3				2	1
						1			1			1				
						Sign	ature	Э		nka			_			
Appr	Approved by: Constantin Varzari									*			Date):)	19/0	2/2020
										v						
				1		D '			[<u> </u>				
140.00	Activity Hazards/Picks Identified						к ка	ting	Control				SK Ra	ating	Responsibility	Nonitoring
Item A				Hazards/Risks Identifi	ed d hit hu	5	L	RR	Control		la a dia a	S	L	RK 4	On a notive a R	Responsibility
1 L	oading wag	ons with exi	cavator	Persons being trappe	a nit by	4	4	16	"Exclude all pede	estrian movement from	loading	4	1	4	Operatives &	Site Manager
				wagon or excavator					alea.	a barriar off and aigna					Supervisor	
									recestrian area	is barrier on and signa	ge					
									*Only trained/as	mostant anaratara ta b	o upod					
											e useu					
									(CIID) *Diant aparatara	to be competent and tr	ainad (a a					
									CPCS training/g	ualification)	ameu (e.y.					
										ments controlled by d	odicatod					
									trained banksma	n	euicaleu					
				المناطقة والمحمد والمراجع		4		40			f hughest	4		4	Operatives 9	Site Mencara
				injury to wagon driver		4	4	10	vvagon driver n	iust not remain in Cab I	DUCKET	4		4	Operatives &	Sile Manager
									ti aveis over cab.	wat not atomd on tor of	lorn				Supervisor	
									vvagon ariver n	iust not stand on top of	iorry					
									vvagon driver n	iusi wear correct PPE	when out					
	Injury/damage through failur			n failure of	4	4	16	*Ensure that ma	chinery is in good repa	ir and well	4	1	4	Operatives &	Site Manager	
	equipment			equipment					maintained with	weekly checks up to da	ate				Supervisor	
									*Weekly/daily pl	ant checks recorded						
									*Weekly PUWE	R checks up to date.						

							Haz	zard	/Risk Assess	ment						
One	ration/Task:	Vehicle mo	vement						RA Number	9					Sheet	see footer
Ope	Tation/Task.	venicie mo	vernent						MS Name	Outline Demolition Me	thod Staterr	nent				
	ation/Area	UCI Institu	te of Neuro	loav					MS No	KB-MS-DC1215-002		RAV	/ritter	ı by	Nathan Kennedy	
200				nogy					Name of person	completing Assessmer	nt	Carr	eron	Willc	ock	
									KEY		r					
	Severity			Likelihood	Ris	k Rat	ing			Catastrophic	Extremely	Harr	nful		Harmful	Slightly Harmful
4	Very severe		4	Very high	13-16	Intol	erabl	e	Very likely	16	12	2			8	4
3	Severe		3	High	8-12	Sub	stanti	al		12	9				6	3
2	Minor		2	Moderate	5-7	Mod	erate	•	Unlikely	8	6				4	2
1	T Negligible 1 Low 1-4				1-4	Tole	rable		Hignly unlikely	4	3				2	1
						Sign	oture									
An	Approved by: Constantin Varzari					Sigi	aluie	-		ick			Date		19/0	12/2020
, PI	proved by:		001	istantin varzan						+++			Duic	•	10/0	2,2020
					Ris	sk Ra	ting				Ris	sk Ra	ting	Deserves all life	Monitoring	
Item	Activity		Hazards/Risks Identifie	ed	S	L	RR	Control			S	L	RR	Responsibility	Responsibility	
1	Vehicle move	d or hit by	4	4	16	*All vehicle move	ements controlled by de	dicated	4	1	4	Operatives &	Supervisor			
	around site			vehicle					trained signaller/	marshall					Supervisor,	Site Manager
									*Hi-Visibility clot	hing to be worn to BS B	ENISO				Traffic marshall	
									20471							
									*All vehicles ente	ering/exiting the loading	area will					
									be controlled by	dedicated marshall	the streff: s					
									more hall shall as	a site is loaded/ unloaded,	the traffic					
									*All vehicle enter	ing site will be controlle	ad by					
									Keltbray traffic n	narshalls.	,a by					
				luium te neede as ef m	la li a	4	4	10	* All undeinder men un		alia ata al	4	4	4	On a nativeza 8	Curren isen
				Injury to members of p	DUDIIC	4	4	16	All vehicle move	ments controlled by de	dicated	4	1	4	Operatives &	Supervisor Site Managor
									*Temporary evol	usion zone will be insta	lled using				Traffic marshall	Site Manager
									rigid barriers/ex	andable barriers durin	a				frame marshall	
									deliveries.		9					
									*Erect sufficent	signage & display in ac	lvanced					
									position warning	of site vehicle entrance	e point.					
									*No pedestrian r	novements allowed duri	ng					
									delivery/collectio	n, controlled by the bai	nksman.					
									* Offloading of m	naterial co-ordinated an	nd					
									controlled by bar	nksman, exclusion zone	e set.					
									*Banksman to ha	ave communication with) 					
									operatives during	g loading/unloading ma	terial.					
1	Vehicle move	ements onto	off and	Poor visibility slipperv	roads	3	2	6	* Good external	lighting in loading area	checked	3	1	3	Operatives &	Supervisor
'	around site		, 511 0110	surfaces and pathway	s 50005,	Ŭ	-	0	on regular basis	ignang in loading alea,	Checked	0	•	0	Supervisor.	Site Manager
					-				* Grit/Spill kit ava	ailable and spill respons	se				Traffic marshall	
									procedure in pla	ce.						
				l			· · ·									

	Hazard/Risk Assessment Operation (Texls) It is a set off original RA Number 10 Sheet see footer															
One	ration/Task:	Lising cut o	off arinder						RA Number	10					Sheet	see footer
Ope	Tation/Task.	Using cure	in grinder						MS Name	Outline Demolition Met	hod Statem	nent				
Loc	ation/Area:	UCL Institu	ite of Neuro	loav					MS No	KB-MS-DC1215-002		RAV	Vritten	n by	Nathan Kennedy	
				9)					Name of person	completing Assessmen	t	Carr	neron	Willco	ock	
									KEY							
	Severity	r		Likelihood	Ris	sk Rat	ing			Catastrophic	Extremely	Harr	mful		Harmful	Slightly Harmful
4	Very severe		4	Very nign	13-16	Into	erab	e		16	12	2			8	4
2	Minor		3	Moderate	0-12 5-7	Mod	Stant	a	Likely	12	9	:			0	3
1	Negligible		2	Low	1-4	Tole	rable	-	Highly unlikely	4	3				2	1
· ·	rogigibio			2011	1	1010	abio								-	
Ар	proved by:		Cor	nstantin Varzari		Sigr	nature	3		ACK			Date):	19/0	02/2020
						Ric	k Ra	tina				Rie	ek Ro	ting		Monitoring
Item	Activity			Hazards/Risks Ident	ified	S		RR	Control			S		RR	Responsibility	Responsibility
	tem Activity 1 Using cut off grinder			Hazards/Risks Ident Injury from flying de Eye injury Damage to hearing Inhalation of dust	bris	S 4 4 3 3 3 3 3		RR 16 12 12 12	Control *Ensure only tra used. *Establish exclus access. *Brush attachme person (i.e. store *Grinder inspect PUWER inspect operative. *Protective scree area. Warning signs e *Full face screeer to BS EN 166B i *Hearing protect times while operative *All personnel with wear particle filte *Magk is face for	ined, experienced oper sion zone, prevent unath ent fitted by abrasive wh emen) ed every day and week ion by trained, compete ens to be used to close <u>rected outside exclusion</u> n protection to be worn mpact grade. ion to be worn to BS Ef ating the tool orking within exclusion a er mask to BS EN 143 (atives are norised deel trained dy ent off the <u>n zone</u> at all times N 352 at all zone to FFP33)	S 4 3 3 3	L 1 1 1 1 1	RR 4 3 3 3	Operatives & Supervisor Operatives & Supervisor Operatives & Supervisor Operatives & Supervisor	Responsibility Site Manager Site Manager Site Manager Site Manager
				Cuts and abrasions		3	4	12	*Wear protective *Keep area clea	e gloves to BS EN 374 r of all obstructions.		3	1	3	Operatives & Supervisor	Site Manager
				HAV's		4	4	16	* Selection of the vibration levels p * The vibrations Manaufacture ar attached to calcu * The usage will times recorded t * Provide anti vit	e tools to allow for the lo ossible. levels pulbished by the e to be feed into the HS ulate the permitted usag be monitored with the tr by the supvisor in chargoration gloves.	owest SE table as le. rigger je.	4	1	4	Operatives & Supervisor	Site Manager Project Manager

						Haz	zard	/Risk Assess	ment			_			
000	ration/Tack:	Trimming/Dome with	hand tools					RA Number	14					Sheet	see footer
Ope	Tallon/Task.	mmming/Demo with						MS Name	Outline Demolition Me	thod Statem	ent				
1.00	ation/Aroa:	LICI Institute of Nou						MS No	KB-MS-DC1215-002		RAW	/ritter	ı by	Nathan Kennedy	,
LUC	allon/Alea.		ology					Name of person	completing Assessmer	nt	Cam	eron	Willco	ock	
								KEY							
	Severity		Likelihood	Ris	k Rati	ng			Catastrophic	Extremely	Harn	nful		Harmful	Slightly Harmful
4	Very severe		4 Very high	13-16	Intole	erabl	е	Very likely	16	12	2			8	4
3	Severe		3 High	8-12	Subs	stanti	al	Likely	12	9				6	3
2	Minor		2 Moderate	5-7	Mod	erate		Unlikely	8	6				4	2
1	Negligible		1 Low	1-4	Tolei	able		Highly unlikely	4	3				2	1
Ap	proved by:	C	onstantin Varzari		Sign	ature	9		Aff			Date	:	19/0	02/2020
									-~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						
					Ris	k Ra	ting				Ris	sk Ra	iting	Responsibility	Monitoring
Item	Activity		Hazards/Risks Identifi	ied	S	L	RR	Control			S	L	RR	Responsibility	Responsibility
1	Trimming/demo with hand tools Injury from poorly maintained				4	4	16	*Ensure only tra	ined, experienced ope	ratives are	4	1	4	Operatives &	Site Manager
	wrongly used tools							carrying out the	works					Supervisor	Project Manager
								*Operatives give	n briefing on work to b	e carried					
								out MS and RA.							
								*Daily inspectior	n of all tools to be carrie	ed out.					
			Eye injury from flying	debris	3	4	12	*Eye protection	to be worn to BS EN 1	66B impact	3	1	3	Operatives &	Site Manager
								grade.						Supervisor	Project Manager
			Inhalation of dust (pot	ential	3	4	12	*Damp down to s	suppress dust with wate	er	3	1	3	Operatives &	Site Manager
			cause of lung cancer,	, if inhaled)				*Good ventilation	if not then forced ve	ntilation				Supervisor	Project Manager
								*All personnel we	orking within work area	to wear a					
								minimum FFP3 s	standard masks. These	masks are					
								to be face fitted	to the operative						
								*Continuous che	eck by site supervisors	for correct					
								RPE protection v	wear, including clean s	having					
								cneck.							
			Cuts and abrasions		3	4	12	*Wear protective	aloves to BS EN 388		3	1	З	Operatives &	Site Manager
	Cuts and abrasions					-	12		90103 10 DO EN 000		5		0	Supervisor	Project Manager
	Slips and trips					3	12	*Ensure that acc	ess/egress are kept cl	ear at all	4	1	4	Operatives &	Site Manager
						-		times	3 · · · · · · · · · · · · · · ·					Supervisor	Project Manager
								*Ensure that mat	terials are stored corre	ctly and					,
1								removed as soor	n as practicable						
								*Ensure a good	level of lighting						
								Cover slippery w	alkways with non-slipp	ery					
								materials		-					

Trimming/demo with hand tools	Damage to hearing	4	4	16	 * Establish hearing protection zone from the work area. * Erect signage warning site operatives of the hearing protection. * Hearing protection to be worn by all operatives working within the exclusion area to BS EN 352. * Provide hearing protection for all operatives undertaking the works 	4	1	4	Operatives & Supervisor	Site Manager Project Manager
	Strains & sprains to muscles and joints	4	4	16	*Ensure only trained, experienced operatives carry out the task *Operatives given briefing on work to be carried out *The hand tools selected are the lightest available to undertake the task. *Work area to be kept clear at all times *Material stored correctly on delivery and continual use. *Continual training of operatives exposed to possible risk. *20 kg max manual handling weight, 1/2 filled rubble bags.	4	1	4	Operatives & Supervisor	Site Manager Project Manager
Trimming/demo with hand tools	Asbestos	4	2	8	*Esnsure only trained, experienced asbestos operatives are carrying out the works *The working area to be cleared prior KB demolition/trimming works *Work areas to be marked by site engineer using spray paint. *Obtain clearance permit/permit to enter from Skanska prior demo/trimming works.	4	1	4	Operatives & Supervisor	Site Manager Project Manager
	HAV's	4	4	16	 * Selection of the tools to allow for the lowest vibration levels possible. * The vibrations levels pulbished by the Manafacturer are to be feed into the HSE table as attached to calculate the permitted usage. * The usage will be monitored with the trigger times recorded by the supvisor in charge. * For these works the working gang will consisit of 3 men so that the trimming works can be shared. * Provide anti vibration gloves. 	4	1	4	Operatives & Supervisor	Site Manager Project Manager



							На	zard	/Risk Assess	ment						
_		L							RA Number	20					Sheet	see footer
Ope	eration/Task:	Supervisir	ng site works	S					MS Name	Outline Demolition Met	thod Staten	nent				
				_					MS No	KB-MS-DC1215-002		RAV	Vritter	n by	Nathan Kennedy	/
Loc	ation/Area:	UCL Instit	ute of Neuro	ology					Name of person	completing Assessmen	ıt	Can	neron	Willo	ock	
									KEY	g						
	Severity	,		Likelihood	Ri	sk Rat	ina			Catastrophic	Extremely	/ Har	mful		Harmful	Slightly Harmful
4	Very severe		4	Very high	13-16	Into	erab	le	Very likely	16	1	2			8	4
3	Severe		3	High	8-12	Sub	stant	ial	Likely	12	9	•			6	3
2	Minor		2	Moderate	5-7	Moc	lerate	ə	Unlikely	8	e	\$			4	2
1	Negligible		1	Low	1-4	Tole	rable	e	Highly unlikely	4	3	3			2	1
		1				0.		-				1				
Ар	proved by:		Co	nstantin Varzari		Sigr	aur			NG			Date	ə:	19/0	02/2020
-	1					Ris	sk Ra	atina				Ri	sk Ra	atina	L	Monitoring
Item	Activity			Hazards/Risks Iden	tified	S		RR	Control			S		RR	Responsibility	Responsibility
1	Supervising	site works		Eye injury due to ft	/ing debris	3	4	16	*Ensure that exc they are complie about work activity plant within the at *Minimise number zone/area, when banksman if required training (e.g. CSCS, CP, *Daily Brief to al notifying them at activities, any ch day, deliver sepa required. *Everyone in pro- protection grade *Minimise number zone/area.	lusion zones are in place in place, notifying all op ity in the area including area. er of operative in the we e plant is operated, use uired. person operating is competent/trained ar octification and is up CS, IPAF, BROKK etc. I operative is carried ou pout site/work zone or a anges to be notified th arate recorded briefing. eximity of activity to we 1 impact to BS EN 166 er of operatives in the v I operative is carried ou pout site/work zone or a anges to be notified the	ce and beratives i moving ork d has all to date) it, area rough the , if ar eye SB work ut, area rough the to date	3	1	3	Operatives & Supervisor Operatives & Supervisor	Site Management
1	Supervising	site works		Noise induced hear	ing loss	3	4	12	required. *Ensure that exc complied with. *Noisy works sig Restrict number zones and arour *Ensure all withing	lusion zones are set up nage indicated. 's of operatives inside id the noisy areas in zone wear hearing p	and noisy rotection	3	1	3	Operatives & Supervisor	Site Management
				Slips and trips		2	4	8	*Ensure that app place, and comp *Safe means of place, altered/ad progress. *Good standard *Store materials *Ensure adequa available *Make sure that accordance with *Daily Brief to al notifying them at activities, any ch day, deliver sepa required.	propriate safe access ro lied with. access into the works a ljusted as required, folk of house keeping in an appropriate manr te natural or task lightin works are carried out in method statement. I operative is carried ou oout site/work zone or a hanges to be notified the arate recorded briefing.	oute is in area are in owing work ner g is n at, area rough the if	2	1	2	Operatives & Supervisor	Site Management

1	Supervising site works	Noise induced hearing loss	3	4	12	*Ensure that exclusion zones are set up and	3	1	3	Operatives &	Site Management
						complied with.				Supervisor	
						*Noisy works signage indicated.					
						*Restrict numbers of operatives inside noisy					
						zones and around the noisy areas					
						*Ensure all within zone wear hearing protection					
						to BS EN 352					
		Slips and trips	2	4	8	*Ensure that appropriate safe access route is in	2	1	2	Operatives &	Site Management
						place, and complied with.				Supervisor	
						*Safe means of access into the works area are in					
						place, altered/adjusted as required, following work					
						progress.					
						*Store meterials in an appropriate manner					
						*Ensure adequate patural or task lighting is					
						*Make sure that works are carried out in					
						accordance with method statement					
						*Daily Brief to all operative is carried out					
						notifying them about site/work zone or area					
						activities, any changes to be notified through the					
						day, deliver separate recorded briefing, if					
						required.					
1	Supervising site works	Dust causing respiratory	3	4	12	*Ensure that dust is suppressed by damping down	3	1	3	Operatives &	Site Management
	caper nonig ene norne	problems	Ŭ			using portable water pumps or water hose line.	Ŭ		0	Supervisor	ene management
						*Ensure where appropriate that RPE particle					
						masks are worn to BS EN 149 and as a minimum					
						FFP3 masks to be used.					
		Compliance with method	2	4	10	*Ensure that all works are corriad out in	2	1	2	Operativas 8	Site Management
		statement	3	4	12	Ensure that all works are carried out in	3	'	3	Supervisor	Site Management
		Statement.				statement				Supervisor	
						*Ensure that all operatives are briefed and are					
						fully uderstand the tasks RAMS briefiend sheet is					
						signed.					
						*Report any changes to site environment or site					
						conditions to manager.					
						*If site condition changes, STOP all work activites					
						immidiately, make sure that area is safe and					
						report to your line manager/supervisor.					
1	Supervising site works	Other contractors working	3	4	12	*Ensure that exclusion zones are in place and	3	1	3	Operatives &	Site Management
		around or within the area.				they are complied with.				Supervisor	
						*Visual signage in place, notifying all operatives					
						about exclusion areas.					
						*Install additional internal exclusion zones, if					
						necessary.					
						"ivinimise number of operative around the					
						exclusion zone, where possible, or extend					
						exclusion zone if required.					
						Daily Task briefing, as is fully aware of site					
						activities within the work areas					
						acuviues within the work areas.					

							Haz	zarc	/Risk Assess	ment					•		
One	ration/Task	Excavation	of trial bold	es in footwave					RA Number	21					Sheet	see footer	
Ope	Tation/Task.			23 III 100lway3					MS Name	Outline Demolition N	ethod Stater	ment					
1.00	ation/Aroa:	LICI Institu	ito of Nourc	logy					MS No	KB-MS-DC1215-002	2	RA۱	Nritte	n by	Nathan Kennedy	/	
LUC	alion/Alea.			лоду					Name of person	completing Assessm	ent	Car	neror	n Willc	ock		
									KEY								
	Severity	,		Likelihood	Ris	k Rati	ng			Catastrophic	Extremel	y Har	mful		Harmful	Slightly Harmful	
4	Very severe		4	Very high	13-16	Intol	ərabl	е	Very likely	16	1	2			8	4	
3	Severe		3	High	8-12	Sub	stanti	al	Likely	12		9			6	3	
2	Minor		2	Moderate	5-7	Mod	erate	•	Unlikely	8		6			4	2	
1	Negligible		1	Low	1-4	Tole	rable		Highly unlikely	1	;	3			2	1	
		1															
A			0			Sign	ature	9		inter			D-1		10/	00/0000	
Ар	proved by:		Col	nstantin varzari						*			Date	ə :	19/	02/2020	
						I			1								
						Ris	k Ra	tina				Ri	sk Ra	atina		Monitoring	
Item	Activity			Hazards/Risks Ider	ntified	S	L	RR	Control			S		RR	Responsibility	Responsibility	
1	Excavation o	in	Interface with publi	с	3	4	12	*Ensure exclusion	on zones are in place	with	1	1	1	Operatives&	Site Manager		
	footways							adequate solid b	arriers (heras fencin	and				Supervisors	Ű		
	-								signage.								
									*Ensure license	is in place and displa	yed on						
									barrier								
									*Pedestrian barr	riers to be used to rec	lirect public						
									around works								
				Penetration of live	services	4	4	16	*Ensure existing	survev information is	available	1	1	1	Operatives&	Site Manager	
				causing fire/explos	on and injury				*Liaise with statu	utory authorities					Supervisors		
				0 1					*Complete cat/q	enny cable detection	survey						
									*Ensure permit t	to dig is applied for ar	d issued						
									before comment	cing work							
									*All excavation w	vork is carried out by	hand when						
									working near live	e servicecs							
							*Material bagged	d up and removed for	re-use or								
									disposal								
				Even wating Materia		2	4	0	* Motorial Darra	dup and ramavad fa		2	1	2	Operativas	Site Managar	
					i causing trip	2	4	ŏ	disposal	eu up anu removed to	re-use of	2		2	Supervisors	Site manager	
				i iazdi u					Designated wood	te storaged aroa/load	na have				Supervisors		
									Designated Wash	ie siorayeu area/10au	ny Days						

							Haz	zarc	/Risk Assess	ment					-		
One	ration/Task	Excavation	of trial bold	es in footwave					RA Number	21					Sheet	see footer	
Ope	Tation/Task.			23 III 100lway3					MS Name	Outline Demolition N	ethod Stater	ment					
1.00	ation/Aroa:	LICI Institu	ito of Nourc	logy					MS No	KB-MS-DC1215-002	2	RA۱	Nritte	n by	Nathan Kennedy	/	
LUC	alion/Alea.			лоду					Name of person	completing Assessm	ent	Car	neror	n Willc	ock		
									KEY								
	Severity	,		Likelihood	Ris	k Rati	ng			Catastrophic	Extremel	y Har	mful		Harmful	Slightly Harmful	
4	Very severe		4	Very high	13-16	Intol	ərabl	е	Very likely	16	1	2			8	4	
3	Severe		3	High	8-12	Sub	stanti	al	Likely	12		9			6	3	
2	Minor		2	Moderate	5-7	Mod	erate	•	Unlikely	8		6			4	2	
1	Negligible		1	Low	1-4	Tole	rable		Highly unlikely	1	;	3			2	1	
		1															
A			0			Sign	ature	9		inter			D-1		10/	00/0000	
Ар	proved by:		Col	nstantin varzari						*			Date	ə:	19/	02/2020	
						I			1								
						Ris	k Ra	tina				Ri	sk Ra	atina		Monitoring	
Item	Activity			Hazards/Risks Ider	ntified	S	L	RR	Control			S		RR	Responsibility	Responsibility	
1	Excavation o	in	Interface with publi	с	3	4	12	*Ensure exclusion	on zones are in place	with	1	1	1	Operatives&	Site Manager		
	footways							adequate solid b	arriers (heras fencin	and				Supervisors	Ű		
	-								signage.								
									*Ensure license	is in place and displa	yed on						
									barrier								
									*Pedestrian barr	riers to be used to rec	lirect public						
									around works								
				Penetration of live	services	4	4	16	*Ensure existing	survev information is	available	1	1	1	Operatives&	Site Manager	
				causing fire/explos	on and injury				*Liaise with statu	utory authorities					Supervisors		
				0 1					*Complete cat/q	enny cable detection	survey						
									*Ensure permit t	to dig is applied for ar	d issued						
									before comment	cing work							
									*All excavation w	vork is carried out by	hand when						
									working near live	e servicecs							
							*Material bagged	d up and removed for	re-use or								
									disposal								
				Even wating Materia		2	4	0	* Motorial Darra	dup and ramavad fa		2	1	2	Operativas	Site Managar	
					i causing trip	2	4	ŏ	disposal	eu up anu removed to	re-use of	2		2	Supervisors	Site manager	
				i iazdi u					Designated wood	te storaged aroa/load	na have				Supervisors		
									Designated Wash	ie siorayeu area/10au	ny Days						

						Ha	zard	/Risk Assess	ment						
Operation/Tack:	Erection of	protoction	coeffold and monoflay					RA Number	23					Sheet	see footer
	Election of	protection						MS Name	Outline Demolition Me	thod Statem	nent				
Location/Area	LICI Institu	te of Neuro	loav					MS No	KB-MS-DC1215-002		RAV	Vritter	n by	Nathan Kennedy	
Location/Area.			iogy					Name of person	completing Assessmer	ıt	Carr	neron	Willc	ock	
								KEY							
Severit	/		Likelihood	Ris	k Rati	ing			Catastrophic	Extremely	Harr	mful		Harmful	Slightly Harmful
4 Very severe		4	Very high	13-16	Intol	erab	le	Very likely	16	12	2			8	4
3 Severe		3	High	8-12	Sub	stant	ial	Likely	12	9				6	3
2 Minor		2	Moderate	5-7	Mod	erate	9	Unlikely	8	6				4	2
1 Negligible		1	Low	1-4	Tole	rable)	Highly unlikely	1	3			_	2	1
	1				1			I							
Approved by:	Approved by: Constantin Varzari					ature	e		ACK			Date):	19/0	02/2020
					Ris	sk Ra	ting				Ris	sk Ra	ting	Responsibility	Monitoring
Item Activity			Hazards/Risks Identifi	ed	S	L	RR	Control			S	L	RR	reependiolinity	Responsibility
1 Erection of monaflex	protection so	affold and	Falls from height		4	4	16	*Only CITB scaf *Scaffolders to v	folders to erect scaffold vear full body harnesse	ling s with	4	1	4	Operatives& Supervisors	Site Manager
								lanyards or use	inertia reel devices						
								*Above 4m scaft	olders must be anchore	ed					
								*No one to use s	scaffolding until hand ov	/er					
								certificate is issu	ued.						
								*Once handed o	ver weekly inspections	to be					
	Folling metariolo							recorded in F91	scaffold register						
	Falling materials				4	4	16	*Exclusion zone	must be established be	low	4	1	4	Operatives&	Site Manager
	Falling materials							scaffold erectior appropriate sign	n works, using solid bar age.	riers and				Supervisors	

							Haz	zard	/Risk Assessi	nent	•					
000	ration/Tack:	Plant move	mont oroun	d aita/work area					RA Number	24					Sheet	see footer
Ope	Talion Task.	FIANT NOVE		IU SILE/WOLK ALEA					MS Name	Outline Demolition Me	thod Staten	nent				
	ation/Area:	LICI Institu	ite of Neuro						MS No	KB-MS-DC1215-002		RAV	Vritter	ו by	Nathan Kennedy	
LOC	alion/Alea.			юду					Name of person	completing Assessmer	nt	Carr	neron	Willc	ock	
									KEY							
	Severity			Likelihood	Ris	k Rati	ing			Catastrophic	Extremely	Harr	nful		Harmful	Slightly Harmful
4	Very severe		4	Very high	13-16	Intol	erabl	е	Very likely	16	1:	2			8	4
3	Severe		3	High	8-12	Sub	stanti	al	Likely	12	g)			6	3
2	Minor		2	Moderate	5-7	Mod	erate)	Unlikely	8	6	;			4	2
1	Negligible		1	Low	1-4	Tole	rable		Highly unlikely	4	3				2	1
												1				
4.00	proved by a		Cor	atantin Varzari		Sign	nature	•		inter			Data		10/0	2/2020
Ар	proved by.		Cor	Istantin varzan						*			Dale		19/0)2/2020
						1				·						
						Ris	sk Ra	tina				Ris	sk Ra	atina		Monitoring
Item	n Activity Hazards/Risks Identified					S	L	RR	Control			S	L	RR	Responsibility	Responsibility
1	Moving Plant around site/work Persons being trapped or hit					4	4	16	*Exclude all pede	estrians from area. W	herever	4	1	4	Operatives&	Site Manager
	Moving Plant around site/work Persons being trapped or hit excavator								practicable areas	s to be barriered off ar	nd signed.				Supervisors	Ũ
									*Only trained/co	mpetent operators to b	e used				-	
									(CPCS)							
									*Erect barriers to	o segregrate plant and	other					
									activities on site							
				Overturned excavator		4	4	16	*Only trained/co	npetent operators to b	e used	4	1	4	Operator &	Site Manager
									(CPCS)						Banksman	Ũ
									*All vehicle move	ments controlled by de	edicated					
									trained banksma	n						
									*Ensure that mad	chinery in good repair	and well					
									maintained - dail	y/weekly log book						
									*Ensure that rout	te to be travelled is clea	ar of					
									obstructions, rea	sonably level, not liable	e to					
									move/subside.							
									Ensure that oper	ator is familiar with the	site layout					
	Holes through the slab/evisting				:			40	and other hazard	ls						
	Holes through the slab/existing				existing	4	4	16	"Unly trained/col	npetent operators to b	e used	4	1	4	Operator &	Site Manager
	ground								(UPUS)	monto controllad by de	diantad				Banksman	
									All vehicle move	ments controlled by de	ucaled					
									*Encure that and	ll rator is familiar with th	o cito					
									lavout and other	havarde	5 316					
									* Avoid large one	ning plywood protecte	d areas					
									Avoiu large ope	printing ply wood protecte	u areas.					

	•		•				Haz	ard	/Risk Assessi	ment					-	-
One	ration/Task	I king mec	hanical or (electrical band tools					RA Number	25					Sheet	see footer
Ope	Tation Task.	Using mee							MS Name	Outline Demolition	Method State	ment				
	ation/Area	LICI Institu	ite of Neuro	alogy					MS No	KB-MS-DC1215-0	02	RAV	Vritter	ר by	Nathan Kennedy	1
Loc				Jogy					Name of person	completing Assess	ment	Carr	neron	Willc	ock	
									KEY							
	Severity			Likelihood	Ris	k Rat	ing			Catastrophic	Extreme	y Harr	nful		Harmful	Slightly Harmful
4	Very severe		4	Very high	13-16	Intol	erabl	e	Very likely	16		2			8	4
3	Severe		3	High	8-12	Sub	stanti	al		12		9			6	3
2	Minor		2	Moderate	5-7	Mod	erate		Unlikely	8		6			4	2
1	Negligible		1	LOW	1-4	TOIE	rable		Hignly unlikely	4		3			Z	1
Ар	Approved by: Constantin Varzari					Sigr	nature)		ACK			Date):	19/	02/2020
						Ris	sk Ra	ting				Ris	sk Ra	ating	Posponsibility	Monitoring
Item	Activity			Hazards/Risks Identifi	ed	S	L	RR	Control			S	L	RR	Responsibility	Responsibility
1	Activity Hazards/Risks identified Using mechanical and electrical hand tools Eye damage from flying deb dust				ng debris/	3	4	12	*Establish exclus barriers and sigr *Everyone within protection to BS	sion zone limiting a nage n exclusion zone to EN 166B grade 1 i	ccess using wear eye impact	3	1	3	Operatives& Supervisors	Site Manager
	Damage to hearing					3	4	12	*Establish exclus barriers and sigr *Everyone withir protection (gene 352.	sion zone limiting a nage n exclusion zone to ric noise level 102[ccess using wear hearing DbA) to BS EN	3	1	3	Operatives& Supervisors	Site Manager
				Inhalation of dust		3	3	12	*Damp down dus *Clear dust/slurr *All within exclus mask to BS EN 1	st y regularly ion zone to wear p 143	article filter	3	1	3	Operatives& Supervisors	Site Manager
		Cuts and abrasion to hands					4	8	*Wear protective	e gloves to BS EN 3	374	2	1	2	Operatives& Supervisors	Site Manager
	Vibration white finger					3	4	12	*Use modern, we vibration mountir *Train operatives *Rotate labour. *Provide correct *Use well-mainta	ell-maintained equip ngs etc) s to use plant Rotation log to be r type of gloves ined, damped, moo	oment (anti- naintained dern machines	3	1	3	Operatives& Supervisors	Site Manager
	Shock with electric tools				bls	4	4	16	*Cables and tool *Inspect before	s must be in good use	condition	4	1	4	Operatives& Supervisors	Site Manager

							Haz	ard	/Risk Assessı	ment				-		-
000	ration/Took:		honical or a	alastrias band task					RA Number	25					Sheet	see footer
Ope	Tation Task.	Using mec							MS Name	Outline Demolition	Method Stater	nent				
1.00	ation/Δrea	LICI Institu	ite of Neuro	blogy					MS No	KB-MS-DC1215-00)2	RAV	Vritter	n by	Nathan Kennedy	/
LOC	allon/Arca.			Jogy					Name of person	completing Assessm	nent	Carr	neron	willc	ock	
									KEY					1		
	Severity	1		Likelihood	Ris	k Rat	ing			Catastrophic	Extremely	/ Harr	nful		Harmful	Slightly Harmful
4	Very severe		4	Very high	13-16	Intol	erabl	e	Very likely	16	1	2			8	4
3	Severe		3	High	8-12	Sub	stanti	al		12	9	9			6	3
2	Minor		2	Moderate	5-7	Mod	erate		Unlikely	8	6	5			4	2
1	Negligible		1	Low	1-4	lole	rable		Highly unlikely	4		3			2	1
Ар	Approved by: Constantin Varzari						nature)		Hefe			Date): 	19/	02/2020
						Ris	sk Ra	ting				Ris	sk Ra	ating	Responsibility	Monitoring
Item	Activity			Hazards/Risks Identifie	ed	S	L	RR	Control			S	L	RR	Responsionity	Responsibility
1	Using mechanical and electrical hand tools Eye damage from flying det				g debris/	3	4	12	*Establish exclus barriers and sigr *Everyone within protection to BS	ion zone limiting acon nage nexclusion zone to w EN 166B grade 1 in	cess using vear eye npact	3	1	3	Operatives& Supervisors	Site Manager
				Damage to hearing		3	4	12	*Establish exclus barriers and sigr *Everyone within protection (gene 352.	tion zone limiting act nage n exclusion zone to v ric noise level 102Dl	cess using /ear hearing bA) to BS EN	3	1	3	Operatives& Supervisors	Site Manager
		Inhalation of dust				3	3	12	*Damp down dus *Clear dust/slury *All within exclus mask to BS EN 1	st y regularly ion zone to wear pa I43	rticle filter	3	1	3	Operatives& Supervisors	Site Manager
		Cuts and abrasion to hands					4	8	*Wear protective	e gloves to BS EN 37	74	2	1	2	Operatives& Supervisors	Site Manager
	Vibration white finger					3	4	12	*Use modern, we vibration mountir *Train operatives *Rotate labour. I *Provide correct *Use well-mainta	ell-maintained equipr ngs etc) s to use plant Rotation log to be ma type of gloves ined, damped, mode	ment (anti- aintained ern machines	3	1	3	Operatives& Supervisors	Site Manager
	Shock with electric tools					4	4	16	*Cables and tool *Inspect before u	s must be in good co use	ondition	4	1	4	Operatives& Supervisors	Site Manager

				· · · ·			Haz	zard	/Risk Assess	ment						
One	eration/Task	Scaffolding							RA Number	32					Sheet	see footer
Ope		Ceanolaing							MS Name	Outline Demolition Met	thod Statem	nent			1	
Loc	ation/Area:	UCL Institu	te of Neuro	bloav					MS No	KB-MS-DC1215-002		RAV	/ritten	ı by	Nathan Kennedy	
				- 3,					Name of person	completing Assessmen	t	Olive	er Lor	ng		
	• •								KEY				<i>.</i>			
4	Severity	, 	4	Likelihood		sk Rat	ing arabi	~	Vondikoh	Catastrophic	Extremely	Harr	ntul		Harmful	Slightly Harmful
4	Severe		4	High	8-12	Sub	erabi	e al		10	12	2			6	4
2	Minor		2	Moderate	5-7	Mod	erate	ai 5	Unlikely	8	9				4	2
1	Nealiaible		1	Low	1-4	Tole	rable		Highly unlikely	4	3				2	1
									3 9 9 9 9							
Ap	proved by:		Co	nstantin Varzari		Sigr	nature	9		Hefe			Date	:	19/0	02/2020
	1					Ris	sk Ra	tina				Ris	sk Ra	tina		Monitoring
Item	n Activity Hazards/Risks Identified						L	RR	Control			S	L	RR	Responsibility	Responsibility
1	Activity Hazards/Risks Identified Scaffolding Scaffolders falling Image: Scaffold in the second state of the second s				materials	4	4	16	*Work to be car accrodance with *Work from boa possible and avo *Use ladders to o avoid climbing o *Where working unavoidable alwa (i.e. safety harnes required. *Works to be ca trained operative *Work from boa *Provide protect	ried out by trained oper SG4.15, TG20:13. rded scaffold platforms bid working from the oper climb scaffold where pr pen scaffold tubes without edge protection ays connect fall arrest e ess, inertia reel etc.) erected to EN12811 std s/inertia reel to be used rried out by competent es only. rded platforms.	ratives in where en edge. actical and n is equipment where and	4	1	4	Operatives & Supervisor, Traff ic marshall, Slinger Operatives & Supervisor	Site Manager
1	Scaffolding Scaffold users falling Materials/Tools falling from				g	4	4	16	working scaffold unathorised pers *Ensure that sca and safe condition be inspected bel *7 day inspection *Ensure that per appropriate safe *Ensure that sca platforms and us	ers to prevent entering sons into the working ar affold is maintained in a on throughout period of fore use and scaff tagg n is carried out and rec sons using the scaffold ty awareness affold users work from b the ladders for access	of ea. complete use. To ed. corded. have poarded	4	1	4	Operatives & Supervisor	Site Manager
	Materials/Tools falling from scaffold				4	4	16	*Ensure that the sheeting and con use and installed *All scaffold tools	scaffold specification f ntainment is fit for the in correctly during erecti to be tethered.	or ntended on	4	1	4	Operatives & Supervisor	Site Manager	

•						Haz	zard	/Risk Assess	ment						
ration/Tack:	Working in	the cure						RA Number	34					Sheet	see footer
Tation Task.	WORKING III							MS Name	Outline Demolition Me	thod Staten	nent				
ation/Aroo:	LICI Inctitu	to of Nourola						MS No	KB-MS-DC1215-002		RAW	/ritten	n by	Nathan Kennedy	
alion/Area.			Jgy					Name of person	completing Assessmer	nt	Cam	eron	Willco	ock	
								KEY							
Severity	,	L	Likelihood	Risł	< Rati	ng			Catastrophic	Extremely	Harr	nful		Harmful	Slightly Harmful
Very severe		4 \	√ery high	13-16	Intole	erabl	е	Very likely	16	1:	2			8	4
Severe		3 F	ligh	8-12	Subs	stanti	al	Likely	12	9				6	3
Minor		2 N	Voderate	5-7	Mod	erate	•	Unlikely	8	6				4	2
Negligible		1 L	_OW	1-4	Tolei	rable		Highly unlikely	4	3				2	1
	~			Sign	ature)		Ick			_ /		10/5	0/0000	
proved by:		Cons	stantın Varzarı						-AA			Date	:	19/0	2/2020
	l													l	
1					Dic	k Do	ting				Die	k Do	ting	[Monitoring
Activity		L.	Hazarde/Risks Identifie	he	9	I	RR	Control			S		RR	Responsibility	Responsibility
Working in t			Sunburn	eu	2		8	*Workers to wes	ar close woven fabric t-	chirte & full	2	1	2	Operatives &	Site Manager
WORKING IN U	ie Sull		Skin cancer		2	-	0	length trousers &	l close woven fabric t-	n avnosad	2	'	2	Supervisor	One Manager
								narts		ii cxposed					
								parts							
			Daha darifar					*D.:	ta ha avallahla O	1		_	0		014
		IL.	Dehydration		2	4	8	*Drinking water	to be available & opera	tives to	2	1	2	Operatives &	Site Manager
		IF I	Heat exhaustion					take heat breaks	; , , , , , , ,					Supervisor	
	5	Sun stroke						on to be provided							
							[^] I oolbox to be g	iven to personell on this	s subject						
	ration/Task: ation/Area: Severity Very severe Severe Minor Negligible proved by: Activity Working in the second	ration/Task: Working in ation/Area: UCL Institu Severity Very severe Severe Minor Negligible proved by: Activity Working in the sun	ration/Task: Working in the sun ation/Area: UCL Institute of Neurok Severity I Very severe 4 Severe 3 Minor 2 Negligible 1 I proved by: Cons Activity 4 Working in the sun 5	ration/Task: Working in the sun ration/Area: UCL Institute of Neurology Severity Likelihood Very severe 4 Very high Severe 3 High Minor 2 Negligible 1 Low Constantin Varzari Activity Hazards/Risks Identifie Working in the sun Sunburn Skin cancer Dehydration Heat exhaustion Sun stroke	ration/Task: Working in the sun ration/Area: UCL Institute of Neurology Severity Likelihood Risk Very severe 4 Very high 13-16 Severe 3 High 8-12 Minor 2 Moderate 5-7 Negligible 1 Low 1-4 proved by: Constantin Varzari Activity Hazards/Risks Identified Working in the sun Sunburn Skin cancer Dehydration Heat exhaustion Sun stroke Dehydration	ration/Task: Working in the sun ration/Area: UCL Institute of Neurology Severity Likelihood Risk Rati Very severe 4 Very high 13-16 Intole Severe 3 High 8-12 Subs Minor 2 Moderate 5-7 Mod Negligible 1 Low 1-4 Tole proved by: Constantin Varzari Sign Activity Hazards/Risks Identified S Working in the sun Sunburn 2 Dehydration 2 Sun stroke 2	Haz Interview of the sun iation/Area: UCL Institute of Neurology Severity Likelihood Risk Rating Very severe 4 Very high 13-16 Intolerabl Severe 3 High 8-12 Substanti Minor 2 Moderate 5-7 Moderate Negligible 1 Low 1-4 Tolerable proved by: Constantin Varzari Activity Hazards/Risks Identified S L Working in the sun Sunburn 2 4 Dehydration 2 4 Skin cancer 2 4	Hazard Hazard Interview of the sun Severity Likelihood Risk Rating Very severe 4 Very high 13-16 Intolerable Severe 3 High 8-12 Substantial Minor 2 Moderate 5-7 Moderate Negligible 1 Low 1-4 Tolerable Proved by: Constantin Varzari Activity Hazards/Risks Identified Signature Working in the sun Sunburn 2 4 8 Dehydration 2 4 8 Dehydration 2 4 8	Hazard/Risk Assess RA Number MS Name RA Number MS Name MS No Name of person KEY Severity Likelihood KEY Severe 4 Very high 13-16 Intolerable Very likely Severe 3 High 8-12 Substantial Likely Minor 2 Moderate 5-7 Moderate Unlikely Nomor 2 Moderate Unlikely Highly unlikely Negligible 1 Low 1-4 Tolerable Highly unlikely Activity Hazards/Risks Identified Signature Signature Vorking in the sun Sunburn Skin cancer Signature Prinking water take heat breaks "Sunscreen lotic "Toolbox to be g	Hazard/Risk Assessment Ra Number 34 MS Name Qutline Demolition Me MS No Qutline Demolition Me MS No KEY UCL Institute of Neurology Key Likelihood Risk Rating Catastrophic Very severe 4 Very high 13-16 Intolerable Very likely 16 Severity Likelihood Risk Rating Catastrophic Very severe 4 Very high 13-16 Intolerable Very likely 16 Severe 3 High 8-12 Substantial Likely 12 Minor 2 Moderate John Solution Negligible 1 Low 1-4 Tolerable High workers to wear close woven fabric to be grave to be available to be available to be available to be available to be provided Proved by: Constantin Varzari Signature Johninking water to be available & opera	Hazard/Risk Assessment ration/Task: Working in the sun RA Number 34 ration/Task: UCL Institute of Neurology MS Name Outline Demolition Method Statem utcl Institute of Neurology MS No KB-MS-DC1215-002 Name of person completing Assessment KEY Severity Likelihood Risk Rating Catastrophic Extremely Very severe 3 High 13-16 Intolerable Very likely 16 11 Severe 3 High 8-12 Substantial Likely 12 9 Minor 2 Moderate 5-7 Moderate Unlikely 34 6 Negligible 1 Low 1-4 Tolerable Highly unlikely 4 33 proved by: Constantin Varzari Signature Jume Jume Jume Jume Jume Working in the sun Sunburn 2 4 8 "Workers to wear close woven fabric t-shirts & full length trousers & use barriers cream on exposed parts Working in the sun Sunburn 2 4 8 "Drinking water to be available	Hazard/Risk Assessment ration/Task: Working in the sun RA Number 34 RA Number 34 MS No KB-MS-DC1215-002 RA W MS No KB-MS-DC1215-002 RA W Name of person completing Assessment Cam KEY Severity Likelihood Risk Rating Catastrophic Extremely Harn Very severe 31-High 8-12 Substantial Likely 12 9 Minor 2 Moderate 5-7 Moderate Unlikely 12 9 Minor 2 Moderate 5-7 Moderate Highly unlikely 4 3 Proved by: Constantin Varzari Signature Signature Jume Addition Risk S Working in the sun Sunburn 2 4 8 *Ontrol S 2 Dehydration 2 4 8 *Drinking water to be available & operatives to take heat breaks 2 4 8 *Drinking water to be available & operatives to take heat breaks 3 2 2<	Hazard/Risk Assessment RA Number 34 RA Number 34 MS Name Outline Demolition Method Statement Lation/Area: UCL Institute of Neurology MS No KB-MS-DC1215-002 RA Writer Severity Likelihood Risk Rating Catastrophic Extremely Harmful Very severe 4 Very high 13-16 Intolerable Very likely 16 12 Severe 3 High 8-12 Substantial Likely 12 9 Minor 2 Moderate 5-7 Moderate Unlikely 8 6 Negligible 1 Low 1-4 Tolerable Highly unlikely 4 3 proved by: Constantin Varzari Signature Signature Mater 2 1 Activity Hazards/Risks Identified S L RR Control Risk Rating Linght trousers & use barriers cream on exposed parts 2 1 Dehydration 2 4 8 *Unriking water to be available & operatives to take heat breaks *Sunscreen hotion to be provided *Toolbox to be given to personell on this subject 2 1 <td>Hazard/Risk Assessment ration/Task: Working in the sun Rate RA Number 34 MS Name Outline Demolition Method Statement iation/Area: UCL Institute of Neurology MS No KB-MS-DC1215-002 RA Written by Severity Likelihood Risk Rating Catastrophic Extremely Harmful Cameron Willc Severe 3 High 8-12 Substantial Likely 16 12 9 Severe 3 High 8-12 Substantial Likely 12 9 9 Minor 2 Moderate 5-7 Moderate Unlikely 8 6 9 Minor 2 Moderate 5-7 Moderate Unlikely 4 3 9 proved by: Constantin Varzari Signature Misk Rating Control Risk Rating Control Si L R Activity Hazards/Risks Identified S L RR Control Si L R Morking in the sun Sunburn Skin cancer 2 4 8 *</td> <td>Hazard/Risk Assessment Sheet Sheet Ration/Task: Working in the sun Sheet RA Number 34 Sheet Sheet Sheet MS No KErMS-DC1215-002 RA Written by Nathan Kennedy Name of person completing Assessment Catastrophic Extremely Harmful Hathan Kennedy Name of person completing Assessment Catastrophic Extremely Harmful Hathan Kennedy Name of person completing Assessment Catastrophic Extremely Harmful Hathan Kennedy Severe 3 Hath RAWritten by Nathan Kennedy Minor 2 Moderate Unitskip Sever 3 Hath Barbon Sever A Hath Sever Sature Unitskip Barbon Sature Proved by: <th colspan="</td></td>	Hazard/Risk Assessment ration/Task: Working in the sun Rate RA Number 34 MS Name Outline Demolition Method Statement iation/Area: UCL Institute of Neurology MS No KB-MS-DC1215-002 RA Written by Severity Likelihood Risk Rating Catastrophic Extremely Harmful Cameron Willc Severe 3 High 8-12 Substantial Likely 16 12 9 Severe 3 High 8-12 Substantial Likely 12 9 9 Minor 2 Moderate 5-7 Moderate Unlikely 8 6 9 Minor 2 Moderate 5-7 Moderate Unlikely 4 3 9 proved by: Constantin Varzari Signature Misk Rating Control Risk Rating Control Si L R Activity Hazards/Risks Identified S L RR Control Si L R Morking in the sun Sunburn Skin cancer 2 4 8 *	Hazard/Risk Assessment Sheet Sheet Ration/Task: Working in the sun Sheet RA Number 34 Sheet Sheet Sheet MS No KErMS-DC1215-002 RA Written by Nathan Kennedy Name of person completing Assessment Catastrophic Extremely Harmful Hathan Kennedy Name of person completing Assessment Catastrophic Extremely Harmful Hathan Kennedy Name of person completing Assessment Catastrophic Extremely Harmful Hathan Kennedy Severe 3 Hath RAWritten by Nathan Kennedy Minor 2 Moderate Unitskip Sever 3 Hath Barbon Sever A Hath Sever Sature Unitskip Barbon Sature Proved by: <th colspan="</td>

					·		На	zarc	/Risk Assess	ment							
000	ration/Tack:	Fire Prove	ntion in offi	20					RA Number	36					Sheet	see footer	
Ope	Talion/Task.								MS Name	Outline Demolition Me	thod Staten	nent					
	ation/Aroa:	LICI Institu	ito of Nouro	loav					MS No	KB-MS-DC1215-002		RAV	Nritte	n by	Nathan Kenned	/	
LOC	alion/Alea.			юду					Name of person	completing Assessmen	nt	Oliv	er Lo	ong			
									KEY								
	Severity			Likelihood	Ris	sk Rat	ing			Catastrophic	Extremely	/ Har	mful		Harmful	Slightly Harmful	
4	Very severe		4	Very high	13-16	Intol	erab	le	Very likely	16	1:	2			8	4	
3	Severe		3	High	8-12	Sub	stant	ial	Likely	12	g)			6	3	
2	Minor		2	Moderate	5-7	Mod	lerate	Э	Unlikely	8	6	6			4	2	
1	Negligible		1	Low	1-4	Tole	rable	•	Highly unlikely	1	3	3			2	1	
Ap	proved by:		Cor	nstantin Varzari	natur	e		Alp			Dat	e:	19/	02/2020			
					Ris	sk Ra	ating				Ri	sk R	ating	Responsibility	Monitoring		
Item	Activity			Hazards/Risks Identi	L	RR	Control			S	L	RR	Пеорополонну	Responsibility			
1	Image: matrix							16	*Provision of me *Procedure for of *Training and ap *Provision of fire emergency light *Display fire ins *Evaluation drills *No smoking pol	eans to raise alarm calling emergency servi opointment of fire warde e alarms, hoses, extingu ing (tested & examined) truction notices s licy	ces ens uishers &	4	1	4	Fire wardens	Fire wardens	
2	Housekeepin	g		Fire impede evacuati	ion	4	4	16	*Regular clearin *Prohibit storage *Avoid use of fla *Orderly storage	g or waste & rubbish e in access/egress area immable materials e policy	as	4	1	4	Fire wardens	Fire wardens	
	Arson 4						4	16	*Adopt security *Install security *Remove all con *Securely store	oriented culture lighting nbustible waste asap waste		4	1	4	Fire wardens	Fire wardens	
	Electrical fire/Explosion 4							16	*Test & inspect systems *Prevent source *Fire checks/ins	all static & portable elec of ignition spections carried out	trical	4	1	4			

							Ha	zard	/Risk Assess	ment					•		
0	rotion/Tool		tion on oite						RA Number	37					Sheet	see footer	
Ope	Talion/Task.	File prever							MS Name	Outline Demolition Me	thod Statem	nent					
	ation/Area	LICI Institu	te of Neuro	logy					MS No	KB-MS-DC1215-002		RAV	/ritter	n by	Nathan Kennedy	,	
LOC	alion/Area.			logy					Name of person	completing Assessmer	nt	Olive	er Loi	ng			
									KEY								
	Severity	/		Likelihood	Ris	k Rati	ing			Catastrophic	Extremely	Harr	nful		Harmful	Slightly Harmful	
4	Very severe		4	Very high	13-16	Intol	erab	е	Very likely	16	12	2			8	4	
3	Severe		3	High	8-12	Sub	stant	al	Likely	12	9				6	3	
2	Minor		2	Moderate	5-7	Mod	erate	;	Unlikely	8	6				4	2	
1	Negligible		1	Low	1-4	Tole	rable		Highly unlikely	1	3				2	1	
Ap	proved by:		Cor	astantin Varzari	Sign	ature	9		Hefe			Date):	19/()2/2020		
						Ris	sk Ra	tina				Ris	sk Ra	tina		Monitoring	
Item	Activity Hazards/Risks Identified								Control			S	L	RR	Responsibility	Responsibility	
1	Activity Hazards/Risks Identified General Fire/explosion/arson						4	16	*Provision of me *Procedure for of *Training/appoin *Provision of fire emergency lighti *Display for fire *Evacuation drills *No smoking pol	ans to raise alarm calling emergency servi tment of fire wardens e, alarms, hoses, exting ing (tested & examined) instruction notices s icy	ices uishers &)	2	1	2	Fire wardens	Site Manager	
2	Housekeeping Fire, impede evacuation						4	16 16	*Regular clearing *Prohibit storage *Avoid use of fla *Orderly storage *Adopt security *Install Site secu	g of waste & rubbish e in access areas mmable materials e policy oriented culture urity		2	1	2	Fire wardens Fire wardens	Site Manager Site Manager	
				Electrical fire/Explosic	on	4	4	10	*Remove all com *Securely store *Test & inspect a systems *Prevent source	ibustible waste asap waste all static & portable elec s of ignition	trical	1	1	1	Fire wardens		

							Haz	ard	/Risk Assessı	ment						
One	ration/Task:	High reach	demolition						RA Number	49					Sheet	see footer
Ope	Tation Task.	riiginteach							MS Name	Outline Demolition Me	thod Statem	nent				
	ation/Aroa:		to of Nouro						MS No	KB-MS-DC1215-002		RAV	Vritter	ı by	Nathan Kennedy	,
LOU	alion/Area.			юду					Name of person	completing Assessme	nt	Olive	er Loi	ng		
									KEY							
	Severity			Likelihood	Ris	sk Rati	ng			Catastrophic	Extremely	Harı	mful		Harmful	Slightly Harmful
4	Very severe		4	Very high	13-16	Intol	erabl	е	Very likely	16	12	2			8	4
3	Severe		3	High	8-12	Sub	stanti	al	Likely	12	9	1			6	3
2	Minor		2	Moderate	5-7	Mod	erate		Unlikely	8	6				4	2
1	Negligible		1	Low	1-4	Tole	rable		Highly unlikely	1	3				2	1
Ар	proved by:		Cor	nstantin Varzari		Sign	ature	;	4	ffr -			Date	:	19/0	02/2020
						Ris	k Ra	ting				Ri	sk Ra	iting	Posponsibility	Monitoring
Item	Activity			Hazards/Risks Identifi	ed	S	L	RR	Control			S	L	RR	Responsibility	Responsibility
2	Overturning Injury from fa	of excavator	als and	Damage to plant, prop equipment Serious injury or fatali	ierty &	4	4	16	*Supervisor & Ex local conditions a *Plan access rou Overhead service *Keep work area necessary, using *Ensure level are demolition proce *Keep work area necessary, using *Exclude all oper demolition activit *Demolition guar *PPE to be worn visibility clothing, safety footwear).	Accavator Operators will and check ground con ute, account for any ha es a clear with exclusion z g barriers and signs a for setting up excav ss a clear with exclusion z g barriers and signs a clear with exclusion z g barriers and signs ratives from exclusion z y is taking place ds to be fitted to all pla a t all times (hard hats gloves, eye protection Erect crash deck, pr	assess ditions azards, i.e. cones as ator during cones as zone while ant s, high n and rotection	1	1	1	Operative supervisor Operative supervisor	Site Manager
3	Unplanned c	ollapse		Damage to plant, prop equipment	erty &	4	4	16	*Work areas to b person prior to w working system	be assessed by compe orks commencing to s	etent Safe	1	1	1	Operative supervisor	Site Manager

4	Collapse of basement	Damage to plant, property & equipment Serious injury or fatality	4	4	1	16	*Ensure basements are 'punched' through suitably backfilled	1	1	1	Operative supervisor	Site Manager
5	Persons being hit/entrapped by pla	Serious injury or fatality	4	4	1	16	*Only trained/competent operators to be used (CPCS card holder). Use traffic marshal/banksman *Ensure exclusion zones are in place with adequate solid barriers and signage.	1	1	1	Operative supervisor	Site Manager
6	Flying debris	Eye injury	4	4	1	16	*Ensure exclusion zones are in place with adequate solid barriers and signage. *Exclude all operatives from exclusion zone while demolition activity is taking place. *Work area sheeted/enclosed where practicable *If necessary erect debris netting screens to prevent fiving debris	1	1	1	Operative supervisor	Site Manager
7	Noise	Damage to hearing	4	4	1	16	*Ensure exclusion zones are in place with adequate solid barriers and signage must be complied with *Exclude all operatives from exclusion zone while demolitions activity taking place	1	1	1	Operative supervisor	Site Manager
8	Dust	Inhalation of dust created from breaking	4	4	1	16	*Use fine water spray to suppress dust *All within work area to wear particle filter mask to BS EN 143	1	1	1	Operative Supervisor	Site Manager

							На	zard	/Risk Assess	ment					•	•
One	vration/Task:	Lleing vohio	ular plant c	at boight					RA Number	44					Sheet	see footer
Ope		Using venic	ulai pianta						MS Name	Outline Demolition Met	thod Staterr	nent				
1.00	cation/Area	LICI Institut	to of Neuro	logy					MS No	KB-MS-DC1215-002		RAW	/ ritte	n by	Nathan Kennedy	
LOC	allon/Area.			logy					Name of person	completing Assessmen	nt	Cam	neror	n Willc	ock	
									KEY							
	Severity	,		Likelihood	Ris	k Rat	ing			Catastrophic	Extremely	Harr	nful		Harmful	Slightly Harmful
4	Very severe		4	Very high	13-16	Intol	erab	le	Very likely	16	12	2			8	4
3	Severe		3	High	8-12	Sub	stant	ial	Likely	12	9				6	3
2	2 Minor		2	Moderate	5-7	Mod	lerate	Э	Unlikely	8	6				4	2
1	Negligible		1	Low	1-4	Tole	rable	9	Highly unlikely	4	3				2	1
Ap	proved by:		Cor	nstantin Varzari		Sigr	natur	e		Alf			Date	ə:	19/0)2/2020
ltem	Activity			Hazards/Risks Identifi	ed	Ris	sk Ra	ating	Control			Ris	sk Ra	ating	Responsibility	Monitoring Responsibility
1	Driving vehic	les/plant at l	height	Driver over edge		4	4	16	*Maintain edge p *Vehicles/plant to	protection at all times o be banked at all times perated by competent p	S	4	1	4	Supervisor	Site Manager
2	Movement d	uring demolit	tion works	structure leading to fai	lure				*Loads testing/as ascertain maxim slabs *Driver/banksma the loading capa	ssessment to be carried um/permitted loading of an and supervisor to be abilities of the floor slab	d out to f floor aware of					
3	Breaking/mc materials	ving demoliti	ion	Falling materials strikir demolition operatives below	ng	4	4	16	*No operatives to immediately belo *Exclusion zones by competent ga *Crash decks *Protection scaff	b be present in areas w working vehicular pla s to be established and ateman/banksman	ant controlled	4	1	4	Supervisor	Site Manager

						Haz	zard	/Risk Assessi	ment						
Operation/Task:	Excavator o	perations	& quick hitch systems i	ncl. changi	ng			RA Number	47					Sheet	see footer
Operation/ Task.	attachments	8						MS Name	Outline Demolition Me	ethod Statem	nent				
Location/Area:		to of Nouro	logy					MS No	KB-MS-DC1215-002		RAW	ritter	n by	Nathan Kennedy	,
Localion/Area.			iogy					Name of person	completing Assessme	nt	Olive	r Loi	ng		
								KEY							
Severit	/		Likelihood	Ris	k Rati	ing			Catastrophic	Extremely	Harm	nful		Harmful	Slightly Harmful
4 Very severe		4	Very high	13-16	Intol	erabl	е	Very likely	16	12	2			8	4
3 Severe		3	High	8-12	Sub	stanti	al	Likely	12	9				6	3
2 Minor		2	Moderate	5-7	Mod	erate	•	Unlikely	8	6				4	2
1 Negligible		1	Low	1-4	Tole	rable		Highly unlikely	1	3				2	1
Approved by:		Cor	nstantin Varzari		Sign	ature	;		AGE			Date		19/0	02/2020
14 mm A m41 if 1			Llanauda (Dialua Islautifi	ام م	Ris	sk Ra	ting	Control			Ris	k Ra	ting	Responsibility	Monitoring
Item Activity 1 Using quick h *Manual hitch *Fully automa *Semi automa Unsafe, uncou Failure to con *Change bucl *Failure to ass to work comn *Inadequate g operatives *Poor mainten speeds *Unauthorisec plant/equipme *Operating m outside cab *Failure to ob *Failure to op practices and	itch system: tic hitch, and atic hitch ordinated work sider the follow ket & attachme ses working sy hencing uarding of plar hance, unsafe d operatives opent achine controls ey hazard warn procedures	s system. ving: ents /stem prior nt operating berating s from nings rking	HazardS/Risks Identifi Impact causing entrapme serious injuries to driver of Bucket or attachment be detached from excavator Unplanned/accidental re bucket/attachment Injury or damage resulting following: a) the load falling or striki or object and the conseque b) the risk of the lifting eq striking a person or some object and the conseque c) the risk of the lifting eq failing or falling over while the consequences	ed ent or other or others coming and falling. lease of g from the ng a person uences uipment e other nces, uipment a in use and	4	4	16	Control 1. Training record i driver operator (by training on the use specific buckets, a using. 2. Instruction must Foreman at the ver now amended the hitching systems a available in due coi Quick Hitch system requirement. *Note: if either 1 oi operator will receiv to attach buckets/a *The Keltbray Proje of information cont different quick hitch buckets & attachm *The Keltbray Proje inspection regime buckets and other *The Keltbray Proje Operators Weekly recorded, (FOR_0) Condition Log), the and attachments &	must be held on site conf name) has received appi and methods of attachm ttachments and hitch sys be carried out by a Keltb ry least, ultimately, CPCS syllabus to include trainin ind other attachments, wi urse by CITB. Second ge in is on all hired plant is the r 2 above is not achieved re additional recorded trai attachments ect Manager must hold, of aining manufacturers det in systems on his site and ents are to be attached. ect Manager must implen of the correct attachment equipment (Form FOR_C ect Manager must ensure Inspections are carried o 80 Rev 00 Daily/ Weekly ese to incl correct fitting o a be forwarded onto the P	irming each ropriate ent of stems he is ray Fitter or S who have g on ill be eneration be minimu the driver ning in how on site, a file ails of the H how nent a daily of machine 070 Rev 00) Plant out and Machine f buckets lant Dept.	<u>5</u> 4		4	Project Manager	Project Manager

Using quick hitch system: *Manual hitch, *Fully automatic hitch, and		4	4	16	*The Project Manager must ensure a copy of quick hitch user guide specific to the type in use is kept in the Machine cabs of all machines	4	1	4	Project Manager	Project Manager
*Semi automatic hitch Unsafe, uncoordinated work system. Failure to consider the following: *Change bucket & attachments *Failure to asses working system prior to work commencing *Inadequate guarding of plant operatives *Poor maintenance, unsafe operating speeds *Unauthorised operatives operating plant/equipment *Operating machine controls from outside cab *Failure to obey hazard warnings *Failure to operate good working practices and procedures	Impact causing entrapment or other serious injuries to driver or others Bucket or attachment becoming detached from excavator and falling. Lift failure resulting in injury including death to employees and or damage to plant and property	4	4	16	 Traditional fully manual hitch systems: These are acceptable for all sizes of machine when fitted and maintained as manufacturer recommendations with appropriate training given as below. 2. Semi automatic quick hitch systems: Semi automatic are deemed to be hitch systems which locate and hold the bucket via an hydraulic system, but are then locked in place by a back up safety locking pin/bar, which is manually located behind the ram The secondary locking pin/bar should be painted in a high visibility colour (red, yellow, orange, light green, etc.)standing out from the machine Where practical semi automatic systems must be modified, such that the locking bars or pins are 'captive' and cannot be removed/ separated from the hitch. For any machine with a bar/pin which cannot be modified (e.g. Manufacturers non acceptance of modification), then working with these should be treated with additional care including the provision of a minimum 3m exclusion zone (where possible) around the bucket/attachment at all times. 	4	1	4	Project Manager	Project Manager
Using quick hitch system: *Manual hitch, *Fully automatic hitch, and *Semi automatic hitch, and *Semi automatic hitch Unsafe, uncoordinated work system. Failure to consider the following: *Change bucket & attachments *Failure to asses working system prior to work commencing *Inadequate guarding of plant operatives *Poor maintenance, unsafe operating speeds *Unauthorised operatives operating plant/equipment *Operating machine controls from outside cab *Failure to obey hazard warnings *Failure to operate good working practices and procedures	Impact causing entrapment or other serious injuries to driver or others Bucket or attachment becoming detached from excavator and falling. Lift failure resulting in injury including death to employees and or damage to plant and property	4	4	16	 3. Fully automatic hitch systems These will only be acceptable where there is a minimum exclusion zone of 3m established, supervised and so maintained around the bucket/attachment at all times. (exceptions to the 3m rule, i.e. Placing concrete, archaeology work, etc. Need to be recorded in a suitable and sufficient risk assessment) 4. Method statement briefings & supervision Any team involved in the operation must be given a thorough briefing by their supervisor in the safe system of work, including the maintaining of exclusion zones. The works must be adequately supervised to ensure the agreed safe system of work (i.e. The method statement is followed.) Areas in close proximity to the machine, i.e. under the bucket or in the working radius of the arm or back swing must be made an exclusion zone. Consideration must be given to other machine operations. 5. Lifting equipment and material This operation must be performed with bucket off, in the correct equipment mode to reduce risk lift plans must be in place before any lifting operations 6. Training and education/familiarisation 1. All excavator operators must hold a current CPCS card with their authorised categories clearly noted on the back.	4	1	4	Project Manager	Project Manager

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Using quick hitch system: *Manual hitch, *Fully automatic hitch, and *Semi automatic hitch Unsafe, uncoordinated work system. Failure to consider the following: *Change bucket & attachments *Failure to asses working system prior to work commencing *Inadequate guarding of plant operatives *Poor maintenance, unsafe operating speeds *Unauthorised operatives operating plant/equipment *Operating machine controls from outside cab *Failure to obey hazard warnings *Failure to operate good working practices and procedures	Impact causing entrapment or other serious injuries to driver or others Bucket or attachment becoming detached from excavator and falling. Lift failure resulting in injury including death to employees and or damage to plant and property	4	4	16	2. All operators must have received adequate familiarisation training in the specific excavator they are operating and each and every attachment used including the hich systems. As there is currently no industry wide training schemes for this, the following will be the minimum: *education and familiarisation will be given by a person authorised by Keltbray as competent to carry it out. They will probably be a plant fitter or foreman and be conversant with the equipment and manufacturers recommendations and will follow a training plan (i.e. check list of topics to cover) *training will include an explanation of the plant/ attachment, a demonstration by the trainer and a practical assessment of the operator using/fitting the attachments under the supervision of the trainer. 3. Records of the training signed by the trainer and operative will be kept on site 7. Manufacturers information Manufacturers operating and maintenance manuals for attachments will be kept on site Excavator manuals are of use to Fitters only in our opinion and serve no purpose in the cab of a machine.	4	1	4	Project Manager	Project Manager
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Using quick hitch system: *Manual hitch, *Fully automatic hitch, and *Semi automatic hitch, and visemi automatic hitch Unsafe, uncoordinated work system. Failure to consider the following: *Change bucket & attachments *Failure to asses working system prior to work commencing *Inadequate guarding of plant operatives *Poor maintenance, unsafe operating speeds *Unauthorised operatives operating plant/equipment *Operating machine controls from outside cab *Failure to obey hazard warnings *Failure to operate good working practices and procedures	Impact causing entrapment or other serious injuries to driver or others Bucket or attachment becoming detached from excavator and falling. Lift failure resulting in injury including death to employees and or damage to plant and property		4	16	8. Maintenance A daily/weekly machine condition log (FOR_080 Rev 00) check list based on manufacturers requirements for the plant, hitch and attachments will be kept in the cab and completed daily. The operator who will sign to confirm the checks/maintenance has been carried out. Checks are to include that all hitch safety devices are in place and the unit is serviceable.	4	1	4	Project Manager	Project Manager

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0	orotion/Tool/	Dubbiah C	laaranaa						RA Number	52					Sheet	see footer	
Ope	eralion/ task.	RUDDISHIC	learence						MS Name	Outline Demolition Me	thod Staten	nent			•		
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	Severity	/		Likelihood	Ri	sk Rat	ing			Catastrophic	Extremely	[,] Har	mful		Harmful	Slightly Harmful	
4	4 Very severe		4	Very high	13-16	Into	lerab	le	Very likely	16	1:	2			8	4	
3	3 Severe		3	High	8-12	Sub	stant	ial	Likely	12	9)			6	3	
2	2 Minor		2	Moderate	5-7	Mod	lerate	Э	Unlikely	8	6	;			4	2	
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Item	Activity			Hazards/Risks Identif	fied	S	L	RR	Control			S	L	RR	Перополни	Responsibility	
1	Rubbish Cle	arence		Fire/Explosion	4	16	*Suitable PPE to *Reduce manua attachments on t	be worn work by using correct he plant.		1	1	1	Operative supervisor	Site Manager			
				Manual handling		4	4	16	 *Manual handling * Half filled rubble *Manual handling 	g RA to be completed e bags only g training to be carried	out	1	1	1	Operative supervisor	Site Manager	

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Operation rask. Interference with Third Parties MS Name Outline Demolition Method Statement Nathan Kennedy Location/Area: UCL Institute of Neurology MS No KB-MS-DC1215-002 RA Written by Nathan Kennedy Severity Likelihood Risk Rating Catastrophic Extremely Harmful Harmful Slightly Harmful 4 Very severe 4 Very high 13-16 Intolerable Very likely 16 12 8 4 2 Minor 2 Moderate 5-7 Moderate Unlikely 8 6 4 2 1 Negligible 1 Low 1-4 Tolerable Highly unlikely 1 3 2 1 Item Activity Hazards/Risks Identified S L RR Control Signature Very Social densities Load Bays 3 1 3 0perative Site Manager 1 Interference with Third Parties hit by moving whices 3 4 12 No pedestrian movements allowed during material scontrolled by dedicated by dedic	0	rotion/Tool	Interforces	o with This	d Dortion					RA Number	53					Sheet	see footer
Location/Area: UCL Institute of Neurology MS No KB-MS-DC1215-002 RA Written by Nathan Kennedy Name of person completing Assessment Oliver Long Severity Likelihood Risk Rating KEY Severity Likelihood Risk Rating KEY Harmful Sightly Harmful 4 Very severe 4 Very high 13-16 Intolerable Very likely 16 12 8 4 3 Severe 3 High 8-12 Substantial Likely 12 9 6 3 2 Minor 2 Moderate 5-7 Moderate Highly unlikely 1 3 2 1 1 Negligible 1 Low 1-4 Tolerable Highly unlikely 1 3 2 1 Approved by: Constantin Varzari Signature Signature Signature Signature Nonitoring Responsibility Responsibility 9/02/2020 Pareiral Mointoring Responsibility Responsibility Sile Manager Sile Manager Sile Manager Sile Manager Sile Manager Sile Manager Si	Oper	ration/ rask:	Interferenc	e with Thir	d Parties					MS Name	Outline Demolition Me	thod Statem	nent				
Institute of Netrology Name of person completing Assessment Oliver Long Name of person completing Assessment Oliver Long Very ligh 13-16 Intolerable Very likely 16 12 8 4 3 Severe 3 High 8-12 Substantial Likely 12 9 6 3 2 Minor 2 Moderate 5-7 Moderate Unlikely 8 6 4 2 Approved by: Constantin Varzari Signature Signature Date: 19/02/2020 Item Activity Hazards/Risks Identified S L R R Responsibility Monitoring Responsibility 1 Interference with Third Parties hit by falling material 3 4 12 *No pedestrian movements allowed during materials controlled by dedicated banksman *All wagon movements allowed during materials controlled by dedicated banksman at ground level 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 <td></td> <td>otion (Aroo)</td> <td></td> <td>4a of No</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>MS No</td> <td>KB-MS-DC1215-002</td> <td></td> <td>RA۱</td> <td>Writte</td> <td>n by</td> <td>Nathan Kennedy</td> <td>1</td>		otion (Aroo)		4a of No						MS No	KB-MS-DC1215-002		RA۱	Writte	n by	Nathan Kennedy	1
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Item Activity Hazards/Risks Identified Risk Rating Responsibility Monitoring Responsibility 1 Interference with Third Parties Third parties hit by falling material 3 4 12 *Loading of debris co-ordinated and agreed with representatives Load Bays 3 1 3 Operative supervisor Site Manager 1 Interference with Third Parties Third parties hit by moving material 3 4 12 *Loading of debris co-ordinated and agreed with representatives Load Bays 3 1 3 Operative supervisor Site Manager 1 Third parties hit by moving vehicles 3 4 12 *No pedestrian movements allowed during materials controlled by the banksman *All wagon movements controlled by dedicated banksman at ground level 3 1 3 Operative supervisor Site Manager									44			Dat	<u>.</u>				
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material Image: Supervisor Supervisor Third parties hit by moving vehicles 3 4 12 *No pedestrian movements allowed during materials controlled by the banksman *All wagon movements controlled by dedicated banksman at ground level *Banksman to have radio communication with 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 1 3 1	1	Interference	with Third P	arties	Third parties hit by fa	lling	3	4	12	*Loading of deb	ris co-ordinated and ac	greed with	3	1	3	Operative	Site Manager
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*All wagon movements controlled by dedicated banksman at ground level *Banksman to have radio communication with					Iniro parties nit by m	oving	3	4	12	no pedestrian r	novements allowed dur	ing	3	1	3	Operative	Site Manager
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*Banksman to have radio communication with										hanksman at dro	und level	uicaleu					
										*Banksman to he	ave radio communicati	on with					
operatives loading/unloading material										operatives loadir	ave radio communication						
Operatives falling through 3 4 12 *Discharge point boarded over when not in use 3 1 3 Operative Site Manager		Operatives falling through 3 4								*Discharge poin	t boarded over when n	ot in use	3	1	3	Operative	Site Manager
discharge point		discharge point								*Edge protection	provided to open edge	es at all		· ·	Ŭ	supervisor	Cito managor
times										times	oug						
Dust causing respiratory 4 4 12 *Ensure that dust is suppressed by damping down 4 1 4 Operative Site Manager					Dust causing respirat	orv	4	4	12	*Ensure that dus	st is suppressed by dar	mpina down	4	1	4	Operative	Site Manager
problems					problems	.,				*Ensure where a	appropriate that RPF of	article	.	.	.	supervisor	ene managor
masks are worn to BS EN 149					1					masks are worn	to BS EN 149						

							Haz	zard	/Risk Assess	ment						
0.0.0	nation/Tealu	Manuallia	a allia a						RA Number	17					Sheet	see footer
Ope	ration/Task:	Manual Ha	naling						MS Name	Outline Demolition Met	thod Statem	nent				
	- (/ •			L					MS No	KB-MS-DC1215-002		RAV	Vritter	ı by	Nathan Kennedy	
Loc	ation/Area:	UCL Institu	te of Neuro	logy					Name of person	completing Assessmen	t	Carr	neron	Willc	ock	
									KEY							
	Severity	,		Likelihood	Ris	k Rat	ing			Catastrophic	Extremely	Harr	mful		Harmful	Slightly Harmful
4	Very severe		4	Very high	13-16	Intol	erabl	е	Very likely	16	12	2			8	4
3	Severe		3	High	8-12	Sub	stanti	al	Likely	12	9				6	3
2	Minor		2	Moderate	5-7	Mod	erate)	Unlikely	8	6				4	2
1	Negligible		1	Low	1-4	Tole	rable		Highly unlikely	4	3				2	1
Ар	proved by:		Cor	nstantin Varzari		Sigr	nature	9	4	HEF			Date	:	19/0)2/2020
						Ris	k Ra	tina				Rie	sk Ra	tina		Monitoring
Item	Activity			Hazards/Risks Identif	ied	S		RR	Control			S		RR	Responsibility	Responsibility
1	Mai	nual handlin	a	Strains & sprains to n	nuscles	3	4	12	*Ensure only co	mpetent/trained and ext	perienced	3	1	3	Operative	Site Manager
1	Mai	nual handlin	g	Strains & sprains to n and joints	nuscles	3	4	12	*Ensure only coloperatives carry *Each load to be and opertives pri *Seek for assists management tea *Operatives to be out, stating all main in lead removal a *Use mechanica *Work area to be *Material stored *Continual trainin possible risk. *Avoid lifting 'hea is based on pers *Where practica *Where practica *Any movement locally/visually as each lift, seek for for the assistance lifting where poss Manual Handling filled in by Suge	mpetent/trained and exp out the task. visually assessed by s or to lifting. ance if not sure from sit m. briefed on work to be anual handling aspects activity. I means where possible e kept clear at all times correctly on delivery. Ing of operatives expose avy' loads ('heavy load' conaly ability of the ope ble, lift the loads in pair of the blasting equipme sessed by the operative r help/advice from man e, use mechanical mea- sible. assessment (Appendia- visor assessing the wo	everienced aupervisor te carried involved e ed to definition rative). rs. int to be ves prior agement ans of (C) to be rks and	3	1	3	Operative supervisor	Site Manager
1	Ma	nual handlin	g	Cuts and abrasion fro surfaces, sharp or jaç edges, splinters	om rough gged	3	4	12	*Correct PPE sh *Ensure that all a *Ensure that mai removed as soor *Ensure good lev *Manual Handlin filled in by Super reviewed with pro- handling comme	iould be worn (e.g.glove access/egress are kept terials are stored correct as practicable. vel of lighting g assessment (Appendi visor assessing the wo oject manager before m nces	es) clear ctly and ix C) to be rks and nanual	3	1	3	Operative supervisor	Site Manager



13. Appendix B – COSHH Assessments









14. Appendix C – Manual handling assessment

Keltbrav

	Manual Handling Asse	essment Record Form											
Job Title	UCL-Institute of Neurology	Job Number	DC1215										
MS/RA Ref	KB-MS-DC1215-002	Date	19/02/2020										
Job/Task description													
Section A - Preliminary				Yes	No								
Do operations involve signifi	cant risk of injury?				√								
Can the operations be avoid	ed/mechanised/automated at	a reasonable cost?		√									
Are the elements of the task	s clearly identified?			√									
Section B: More detailed a	ssessment			Yes	No								
1. The Loads are they	/?												
Heavy				√									
Bulky √ Unwieldy √													
Bulky V Unwieldy V													
Unwieldy √ Unstable √													
Sharp/Hot/Cold/Rough?					√								
Is it a problem for those with	Health Problems				\checkmark								
Is it hazardous to those who	are pregnant				\checkmark								
Require special information	or training				\checkmark								
2. Does the task invo	lve?												
Holding loads away from true	nk			√									
Twisting/ Stooping				\checkmark									
Stretching/ Bending				√									
Large vertical movement/rea	aching upwards			\checkmark									
Long carrying distance					\checkmark								
Strenuous pushing / pulling					√								
Unpredictable load moveme	nt				√								
Repetitive handling/continuo	bus				√								
Insufficient rest or recovery					\checkmark								
Constraints on posture/confi	ned				√								
Poor floors					√								
Variations in levels/rough su	rfaces			\checkmark									
Does the task involve?													
Hot / Cold / Humid condition	s			√									
Strong air movements					√								
Poor Lighting					√								



SECTION C – Remedial action	Comments/Actions
Review potential for use of mechanical plant relative to site conditions, for example: Materials hoist.	Excluding the general manual handling operations for loading / unloading the delivery vehicles with materials and equipment, any large, bulky items will be moved using the plant and machinery aids such as the 5t machine and the 3tonne bobcat
If manual handling is unavoidable, ensure operatives are trained in basic lifting techniques.	Operatives involved in manual handling will have attended a manual handling training – relevant toolbox talk will be carried out where identified as necessary
Ensure all redundant material is cut into sections as small as possible to ease carrying. Rubbish should be removed from sites in suitable containers, preferably with handles. This will allow the load to be carried close to the body and thus reduce the risk of injury.	Operatives will be briefed by the supervisors, loads will be separated into manageable pieces before carrying / lifing. Supervisors and site managers to ensure suitable containers on available.
Team lifting should be considered for the movement of all loads where loads are not manageable by a single person.	Supervisors will brief the operatives to employ team lifts where the loads cannot be adequately separated into manageable sections. Supervisors and site management to encourage this practice.
Plan your route, ensure there are no obstructions	Before works commence, supervisor responsible for the woks will carry out a pre-inspection of the works area, completed on a daily basis before the works commence.
Provide and maintain suitable personal protective equipment on site. These are to include: Safety footwear, suitable gloves, hard hat.	5point PPE will be maintained at all times whilst on site. Where necessary additional task specific PPE may be required, in this case the relevant operatives will be provided with such.

SECTION D – Risk Summary							
Are existing controls satisfactory	Yes	No					
Degree of risk	Low		Medium	High			
Further a	action to b	e taken		Responsible person			
Further a	action to b	e taken		Responsible person			
Further a	action to b	e taken		Responsible person			
Further a	action to b	e taken		Responsible person			





Are controls satisfactory	Yes	No		
Degree of risk	Low		Medium	High
Assessor's Name	Constantin Varzari		Signature	Alt