



Health & Safety Construction phase plan
INCORPORATING
SAFE SYSTEM OF WORK
DEMOLITION METHOD STATEMENT & RISK ASSESSMENTS.



PROJECT:	Kings Meadow Car Park, RG1 8BN
CLIENT:	Watkin Jones
PRINCIPAL CONTRACTOR:	J Mould Reading
DOCUMENT No:	JMR/786/DEM/RH/20.02.18
REVISION:	-V2
DATE:	23.02.18
PREPARED BY:	Richard Harris

*This **Method Statement** has been produced in accordance with **BS6187:2011 Code of Practice for Demolition** and **Regulation 20 of the CDM Regulations 2015**, the information contained herein are to be complied with by all Site Personnel. This Method Statement is classed as a live document and information may be changed or added as the works progress.*

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Risk Assessments
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ACKNOWLEDGEMENT SIGN OFF SHEETS
JMR SITE INDUCTION

Revision Summary

Version REF	Editor and date	Changes made
V1	Richard Harris 16.02.18	First Draft
V2	Richard harris 23.02.18	Addation to appendix of RISK and COSHH,service drawings and premilanary scaffold design

A	AUTHOR OF SSoW:	SIGNATURE	DATE
	Richard Harris		16.02.18
B	CHECKED BY:		
C	CLIENTS ACCEPTANCE:		
D	SUPERVISOR ACKNOWLEDGMENT:		
E	NETWORK RAIL SITE REPRESENTATIVE		

1. PROJECT DESCRIPTION

J Mould Reading (JMR) have been awarded the contract by Watkin Jones to demolish the former 2 storey car park,

The main structures to be removed are 2 storey concrete structure,

JMR will act as Principal Contractor for the works and JMR will have a permanent Site Supervisor who will conduct site/welfare inductions and will be responsible for all boundary and segregation fencing required.

The demolition site is located close to Network Rail (NwR) Assets and liaison with NwR will be carried out by JMR site management during the project.

JMR site management to ensure access road to the neighbouring properties is to remain accessible at all times.

SEQUENCE OF WORKS

This sequence is indicative and may be subject to change at JMR discretion, site conditions and/or even the Client's request.

1. Set up site welfare facilities in accordance with CDM2015.
2. Installation of timber hoarding to perimeter of site.
3. Erecting protection scaffold to rear of car park
4. Soft Strip all internal non-structural items and remove from site either for recycling or to a licensed landfill.
5. Demolition of rear wall where possible to a height below NwR assets
6. Removal of hard standings to car park area
7. Removal of contaminations
8. Proof digging of footprint to previous building onsite.
9. Demolition of main building.
10. Removal of ground floor slab and foundation to remaining site.

11. Crushing of suitable concrete onsite to 6F2
 12. Remove all material arising from site either for recycling or to a licensed landfill.
- Items 5 to 8 could run concurrently if conditions on site allow

DURATION OF WORKS:

PHASE 1: The works shall **commence** on TBC

The works shall **complete** in 7 weeks

Subject to remediation's works and NWR

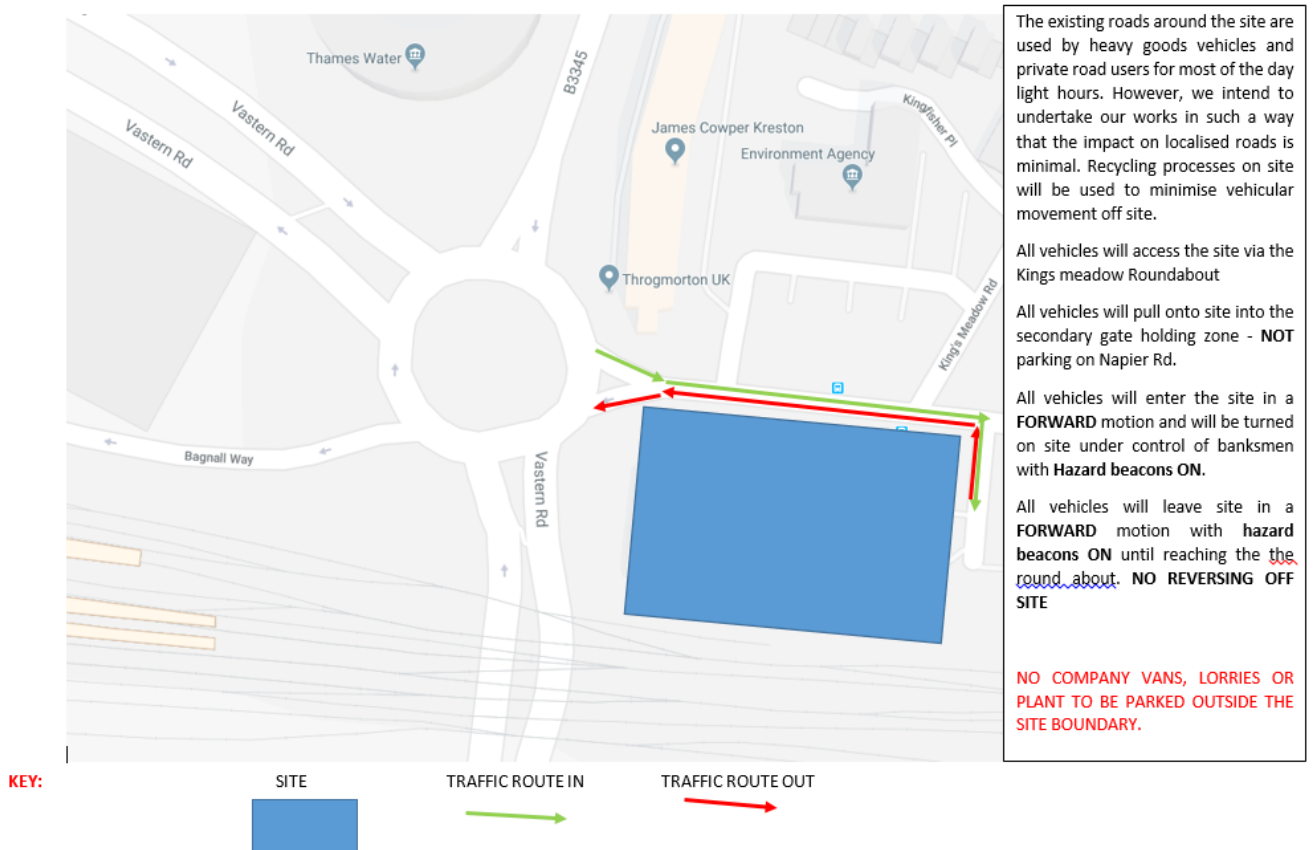
2. SITE DETAILS

3.1 ACCESS/EGRESS:

- Access into site will be the below Traffic Management Plan as signposted and will be restricted to the following:

WORKING HOURS: **08:00-17:30 hrs Monday to Friday**
08.00-13.00 hrs Saturday (TBC)

J Mould (Reading) Job reference 786
 Traffic Management Plan – Kings Meadow Car Park



3.2 WELFARE:

Welfare arrangements will be provided by JMR in compliance with the CDM Regulations 2015 and will consist of the minimum:

- (a) Toilet and wash hand basins with hot and cold water.
- (b) Canteen with hot food facilities.
- (c) Mess room/area. Seating with back support.
- (d) A source of clean drinking water.
- (e) A first aid box (which will be kept in the site office).
- (f) Sufficient and suitable fire-fighting equipment.
- (g) A heated drying room, where appropriate.

3.3 SITE SET UP

- All personnel and visitors to site must report to the JMR Site Management before access will be given to working area.
- JMR Site Management to carry out all Demolition Site Inductions to ensure all JMR personnel and visitors are all signing acknowledgment upon understanding and compliance to all induction information and to this Method Statement
- JMR to erect suitable barrier for buffer zone.
- All access to any demolition work area, except the designated access and egress point will be physically sealed up and secured via the installation of suitable heras fencing, prior to work commencing. Warning notices will also be applied.
- Warning signage will be attached stating:



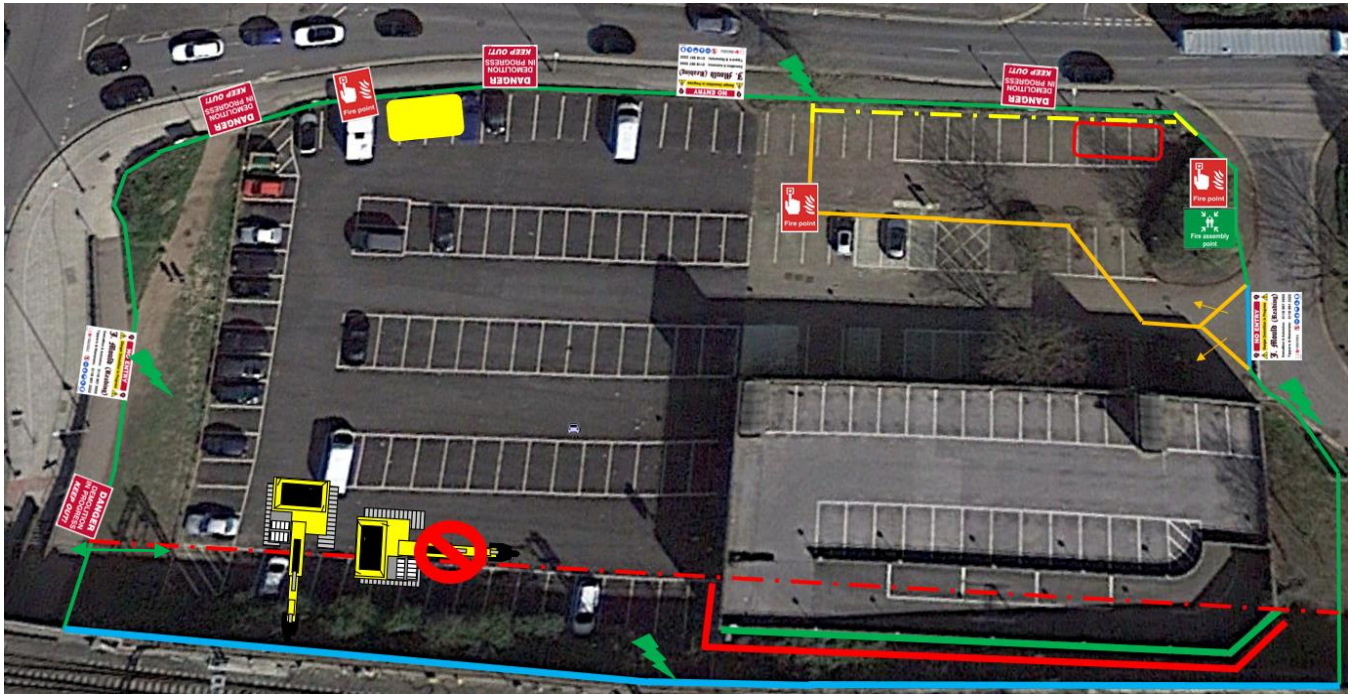
- Where there is a risk of a person falling into an open edge or void, suitable and sufficient control measures shall be implemented to eliminate or adequately control the risk by installing edge protection. It is also a requirement that any person approaching a leading edge or void to install edge protection wears a safety harness fitted with fall restraint lanyard secured to a fixed point, to prevent the risk of falling whilst carrying out an operation.
- Access to any demolition area, particularly where mechanical plant is carrying out demolition works, will be strictly controlled by a devised safe system of work. This will be fully explained to all site employees, including the dangers of unauthorised entry to such areas, as part of a Toolbox Talk given by JMR Site Management or visiting Safety Consultant. All employees will then sign the Safety Talks Register to indicate that they have been advised of the method of access.
- JMR Site Management shall maintain overall control of who will be allowed access to any demolition area or other area of risk. No other person shall give that authorisation.
- Where mechanical plant is carrying out demolition works these fenced off/secured areas will also be under the supervision of a designated competent person in visual contact with the plant operators.
- All Plant will be transported to site by suitable Low-Loader. All plant will be unloaded within site compound.
- JMR to appoint designated Qualified Banksman to control all vehicle movements entering and exiting the site.
- All Tipper & Waste Haulage Lorries will be sheeted prior to leaving site to prevent spillage.
- All Plant and Vehicles to enter and exit in forward gear.
- JMR to supply road cleaning and sweeping facilities as required maintaining the cleanliness of the roads during and on completion of works.
- Site traffic plan to be issued by JMR and updated as the works progress
- Parking in adjacent road is not permitted, parking for all JMR operatives and visitors will be within site compound.
- JMR to make sure access to neighbouring properties is made available at all times.

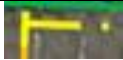
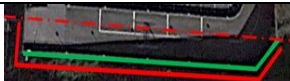
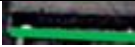
- Condition surveys will be carried out by JMR Demolition Site Manager to confirm the status of all services entering the site, all disused foul and rainwater drainage connections will be sealed at the boundaries to prevent contamination, all redundant drainage to be removed unless stated otherwise by client.
- JMR to record by digital camera, condition of adjacent roads, fencing etc. prior to, during and on completion of our works.
- Burning of any materials are strictly prohibited on site.

SITE SET UP CHECK LIST

ITEM	Checked by	Sign	Date
Site boundary secure			
Site safety signage installed			
Service disconnections completed and paperwork onsite			
Welfare set up and in all good order			
Asbestos survey onsite			
Adequate first aid kits onsite			
A&E information on site and displayed			
Adequate water supply set up			
H&S poster displayed			
Company insurance displayed			
Site set up as per SSOW site plan			
F10 Displayed			
CP H&S Plan onsite			
ASB5 Onsite			
ASB1 onsite			
Section 81 displayed			
Certificates for all plant onsite			
BAPA Agreement onsite			
Scaffold design onsite			
Services within the site marked out and no excavation zone in place			

3.4 SITE AREA PLAN: To be updated as works progress.



	Pedestrian walkways and gates		Internal site segregations and gates formed with heras Fence
	Site boundary formed with heras then replaced with Timber Hoarding		Main site gate
	Fire call points with Extinguisher		Area of building to be removed during NwR onsite to ensure our method is achievable and safe
	General Assembly point		Protection scaffold
	Parapet wall to be reduced in height where possible below NwR fence		NwR Site boundary
	Site office and welfare		Fuel & COSHH storage areas
	5M plant exclusion zone. To be formed by chapter 8 barriers		Location of vibration monitoring.



All plant to work at 90 degrees to exclusion zone at no time to work parallel to NwR asset or cross the exclusion zone

3.5 HOARDING

- TBC

3.6 TREE PROTECTION

- TBC

3.7 SECURITY HERAS FENCING

the site will have timber hoarding to the front elevation erected by Kier prior to works below show details of internal segregations that will be used where needed.

- To prevent unauthorised access to the front of site demolition work areas, Security Heras fencing will be supplied and erected around the demolition site boundary by JMR operatives. The fencing will be posted with suitable and sufficient pictorial safety signage posted onto it warning of the hazards within.



The photograph shows a view of Heras Fencing Exclusion Zone used on this project.

3. ASBESTOS/HAZARDOUS MATERIALS

4.1 ASBESTOS

- A full Demolition Asbestos Survey has been undertaken by JMR prior to the start of works. Asbestos Containing Material deemed Non Licensed Works and will be removed by JMR qualified operatives as per HSG210 Asbestos Essentials and in accordance with the Control of Asbestos Regulations 2012. An ASB1 will be issued to the HSE for the remote removal of the roof tiles.
- Where ACMs are identified the Demolition Supervisor will mark up the site areas containing ACMs using the survey and traffic light system,
 - RED – Licensed ACMs,
 - Yellow – Non Licensed ACMs,
 - GREEN – No asbestos content.
- JMR operatives will also carry out a visual inspection to positively rule out the presence of ACMs prior to deconstruction works. Should any suspect material be discovered, JMR Site Management shall cease work in the area, cordon it off and immediately inform management who will advise the correct course of action to take.
- All JMR operatives involved in the project have attended and passed an accredited UKATA Operatives One Day Training Course Category B for the removal of Non-Licensed Asbestos which also includes Asbestos Awareness

4.2 HAZARDOUS WASTE (EXCLUDING ASBESTOS)

- All waste/ materials that are deemed as Hazardous to dispose of will be removed from the building(s) during the soft strip works and placed in a cordoned off area designated as 'Hazardous Waste/ Materials'.
- For disposal of Hazardous Waste/ Materials refer to JMR Housekeeping and Waste Strategy.
- Below are examples of commonly found Hazardous Waste/ Materials, this is not an exhaustive list:-
 - Plasterboard and gypsum based materials
 - Fluorescent lamps

- Electrical equipment
- Fire extinguishers
- Fire detectors
- Fridges/ freezers and other Ozone depleting substances
- Oils (except edible ones)
- Chemicals
- Batteries

4. WORK AREA EXISTING SERVICES

There are several high value assets noted within the surveys provided within the pre constructions information.

All of these assets are to be clearly marked out and no excavations zone put in place.

- Client to isolate/divert services at the boundary of our working area only prior to site works to enable works to commence:
 - **WATER:** Client to supply temporary Standpipe.
 - **GAS:** Client to appoint relevant Service Provider to terminate supply at the boundary of site.
 - **ELECTRIC:** Client to appoint relevant Service Provider to terminate supply at the boundary of site.
 - **DRAINAGE:** JMR to seal at the boundary of site, all redundant underground drainage to be removed as per instruction of Client.
 - **BT / Open reach or any other data provider**
 - **AHUs:** N/A
- Prior to Demolition:** JMR Site Manager to obtain written confirmation certification from client that all relevant service supplies have been terminated at the boundary of site prior to any demolition works commencing.

STOP	Confirmation that all services have been terminated at the site boundary and written confirmation has been issued to JMR Site Management. Client Representative: Name..... Signature..... Date.....	HOLD POINT
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STOP	We confirm that written confirmation of service termination within the buildings has been received from the client Representative and that the termination point has been visually checked. JMR Site Management: Name..... Signature..... Date.....	HOLD POINT
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NO written confirmation NO works commencement

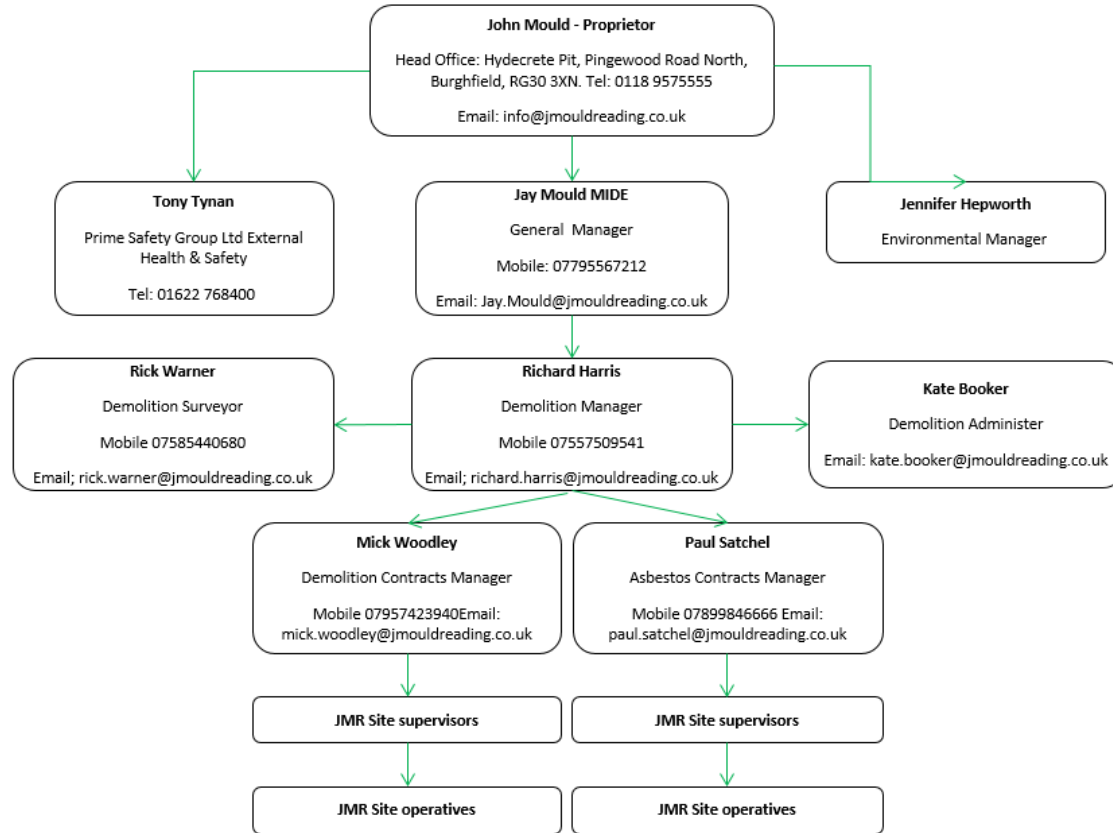
- **Prior to the commencement of work on site, JMR Site Management will also identify the location of all existing incoming e-services, in conjunction with provided information to confirm all non-required services are terminated or isolated back at the incoming main/site boundary. If remaining Services are found to be live JMR representative to inform Client Site Management.**
- **JMR will carry out works in accordance with HS(G) 47 'Avoiding Danger from Underground Services'**

5. PLANT/EQUIPMENT USED:

- 20 -40ton 360° Excavators with bucket/demolition attachments secured by location pins and locking nuts.
- Mobile Crusher
- 8 Wheeled Tipper Lorries.
- All test/examination certification required will be issued to Client prior to works commencing and copy will be available within site file or within Plant.
- All Plant will be transported to site by suitable Low-Loader and will be unloaded within site boundary.
- Bobcat
- Double Skinned fuel bowser with spill kit placed within a secured fenced area.

6. SITE SAFETY MANAGEMENT & RESPONSIBILITIES/PROJECT CONTACTS:

- JMR will provide a suitably trained and experienced Site Supervisor/Manager for all works undertaken.
Who will:
 1. Understand and comply with the company Health & Safety Policy and ensure all operatives under their control do so as well.
 2. Be conversant with statutory regulations and the contents of the job specific documents including, Risk Assessments, COSHH Assessments, and this Method Statement together with any documents issued by the Client. They will ensure that all operatives under their control also understand the contents of these documents.
 3. Ensure all works are carried out in accordance with the clients' requirements, to agreed standards and at minimum risk to all parties.
- JMR Site Management will carry out site specific induction and ensure that all operatives have read, understood and signed this statement.
- As the works progress all site employees will attend regular toolbox talks given by the JMR Site Management or Safety Consultant on various site specific subjects and activities. All operatives receiving the Toolbox Talks will be required to sign a form indicating their attendance.
- JMR Site Management will hold informal daily pre-start talks with the Demolition site operatives to ensure they are aware of the days' work to be undertaken and the different areas that these works are carried out in.
- JMR Site Management will also liaise with the Client on a daily/regular basis to provide an update on progress and general site working.



6.1 CLIENT

Watkin Jones
Unit 55 Ffordd William Morgan
St Asaph Business Park
St Asaph
Denbighshire
LL17 0JG
Wales

7.2 PRINCIPAL CONTRACTOR

J.Mould (Reading)
Hydecrete Pit
Pingewood Road North
Burghfield Bridge
Reading
RG30 3XN

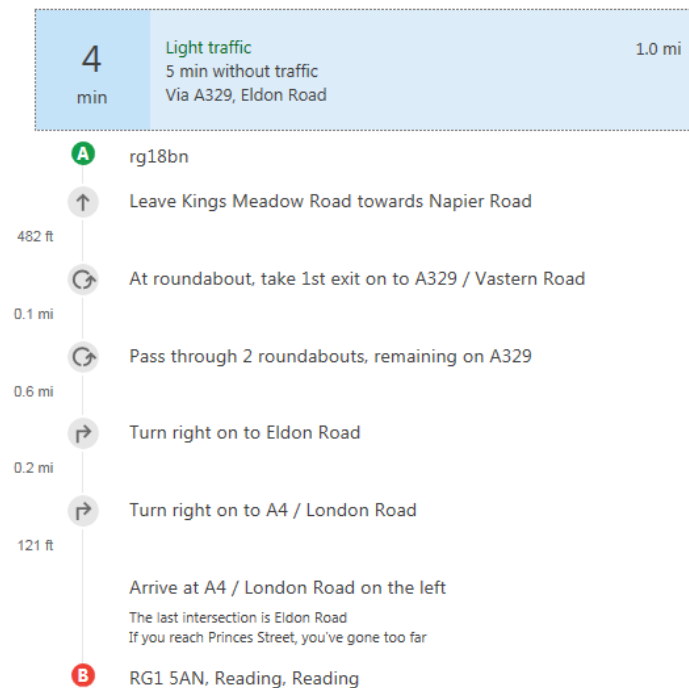
7.3 HSE OFFICE

Priestly House
Priestly Road
Basingstoke

7.4 EMERGENCY ARRANGEMENTS

- **Action in the event of a fire or explosion.**
Assembly Muster point: As per JMR site Induction
- **Action in the event of an accident**
- JMR Site Management will appoint First Aiders during site set up and induction.
- **Nearest Hospital with A & E:**
Royal Berkshire Hospital

Driving directions from rg18bn to RG1 5AN, Reading, Reading



Emergency (Tel): 999



7. TRAINING CERTIFICATION:

- All JMR operatives involved in the project have attended and passed an accredited UKATA Operatives One Day Training Course Category B for the removal of Non-Licensed Asbestos which also includes Asbestos Awareness.
- All operatives carry certificates of competence in their respective skills and regularly partake in safety awareness and routine training.
- All JMR demolition operatives have taken the CSCS Health & Safety and Environmental Test and have relevant (or Working Towards) CCDO Demolition Operative Scheme card for their grade and will carry their cards at all times.
- All JMR plant operatives have relevant CPC plant card for plant operated and have also enrolled on CCDO Demolition Operative Scheme and will carry their cards at all times.
- Site Manager has attended a SMSSTS course within the last 4 years. (or Equivalent level of training)
- All training certification, for plant and equipment operators, will be issued prior to works commencing.

8. PPE:

On this project Operatives will wear at all times a minimum of:

JMR issued

- Protective Helmet EN397
- High Visibility vest/Jackets EN471
- Safety Boots EN345
- Safety Goggles, (Task Specific) EN166B (Grade 1)
- Gloves EN420
- Coveralls, steel toecap wellington boots, face filter masks/gas cutting RPE (EN149 2001(P2 & P3)), ear muffs (EN 353), safety harnesses, fall arrest systems etc. will be worn as appropriate to the tasks undertaken (please refer to Site Rules)
- Job specific items i.e. hot cutting gauntlets, chainsaw protection will be issued as required
- The company's Construction Manager will inspect all PPE and re-issue if deemed sub-standard. All re-issue of PPE will be documented within the site safety folder, inclusive of any task specific PPE, RPE as per the risk assessments
- Mask will be worn during all works that produce and type of dust

9. ENVIRONMENTAL CONSIDERATIONS & Emergency procedures

10.1 NOISE STRATEGY

- Under the Control of Pollution Act 1974, Part 3, Environmental Protection Act of 1990 and the Control of Noise at Work Regulations 2005, noise is a recognized form of pollution and as such can be classified as a nuisance. The Control of Noise (Codes of Practice for Construction and Open Site) Order 1984 gives legal approval for BS 5228, parts 1 & 2, 1997. This provides information on noise and noise control on construction and demolition sites.
- JMR Plant and Machinery are fitted with engines compliant with EU Stage 3 emission regulations. In addition all exhaust gases are mixed with intake air to reduce particle matter (PM) and Nitrogen (NOx) emissions
- Every attempt shall be made to control/minimize noise at source.
- JMR operatives working on demolition sites (particularly those near dwellings) will take all reasonably practicable steps to minimize the noise generated on the site and thereby avoid a Local Authority Notice (under Section 60 of the Control of Pollution Act 1974) being served.
- On site where construction or demolition works is in progress contractors have a responsibility to see that activities are carried out in the quietest practicable manner. Where noisy activities are unavoidable the disturbance will be minimized/attenuated by choice of technique, timing, shielding or protection as appropriate.
- On all moving plant, noise levels will be minimized by being vigilant on points such as:-

- Stopping rattles (e.g.: by tightening covers etc.).
- Throttling down engine when idling.
- Fitting engine covers and keeping them closed.
- Keeping tools sharp to lessen frictional noise.
- Not dropping items, e.g.: into skips, unnecessarily.
- If noise levels are still unacceptable high and no reasonably practicable alternative is available, JMR operatives and contractors will use methods such as:-
- Screening, e.g.: by earth banks.
- Silencing, e.g.: by fitting silencers, mufflers, shield enclosures or barriers.
- Distancing the activity from occupied premises.
- Where any person is liable to be exposed to noise levels greater than 80-85 dB (A), they will be informed and provided with suitable ear protection. The most likely protection, in ascending order of attenuation is ear plugs, ear muffs and noise attenuation helmets.
- Noise will be kept to a minimum at all times and any further restrictions imposed under the terms of the contract will be strictly adhered to.
- *(Refer to Noise Exposure Levels Daily & Weekly included in the Site Folder)*

10.2 DUST STRATEGY

- A range of measures will be employed to minimize the creation and spread of dust arising from this work in accordance with Environmental Protection Act 1990.
All vehicles will be inspected and any dirt/debris removed before leaving site.
All Lorries and roll on/off bins will use cover sheets to prevent accidental spillages.
The method of demolition will include retention of outside walls for as long as possible to assist in containing any arising dust to within the existing building footprint.
Throughout the demolition, hoses with fine mist hand sprays will be located close to the work area and used first to dampen down the area generally, then onto the demolition arisings as works proceeds and also directed at any airborne dust particles.

10.3 GROUND CONTAMINATION

Historical data relating to the site has shown several areas of contamination. A remediation strategy has been compiled and approved by the EA, JMR working with Rambol and HWM will carry out the decontamination works. These works are set out in a separate POW and are to be used in conjunction with the SSOW within this document.

- The availability of spill kits on site; training in the use of transfer of fuel; Drip trays beneath static machinery i.e. generators – This will control or contain any spillages or possible fuel or hydraulic oil leaks from plant and equipment.
- Ensure plant, machinery and vehicles are well maintained to prevent leaks – This will reduce the risk of possible ground contamination.
- Ensure that substances are stored in a secured bunded area – This will prevent any ground contamination from any possible leakages. Spill kits will be made available adjacent to substances.

In the event of a spill or any type of ground contamination caused or found

- **STOP WORK** immediately
- If spillage is flammable, removal all sources of ignition
- **Identify** the source and rectify problem
- **Contain** the spillage- on land use earth, sand and construct bund around spill to stop it spreading. Use booms to control oil on water.
- **Contact** Management (photograph spill)
- **PPE** to be worn
- **Clean** Up the spill, use spill kits, absorbent granules.
- **Dispose** of all contaminated materials correctly

Remain onsite until management are fully aware of the situation all necessary action has been taken specialist teams where needed have be deployed and you have been authorised to leave site.

10. HOUSEKEEPING AND WASTE REMOVAL STRATEGY

- Prior to commencing work on site, J Mould (Reading) will carry out a Waste Stream Analysis to identify the type and quantity of waste material that will be generated. Once the type and quantity of waste has been identified it will be possible to work out the best options for its disposal. I.e. will this material be reused, recycled or, as a last resort, be disposed of via a licensed landfill facility.

All relevant certificates and permits required for disposal to be issued prior to site works. The various waste streams will be strictly monitored and waste haulage/transfer consignment notes, confirming the disposal method and amounts will be issued to client on completion of works. The disposal procedure is as follows:

- i. Brick, block and concrete will be removed to a suitable transfer station for recycling.
 - ii. Suitable timber will be loaded away to our transfer station, from where it will be chipped or reclaimed for re-use.
 - iii. All metal will be removed from site and taken to a recycling centre for processing.
 - iv. All other material will be loaded onto Roll On/Off bins and taken to a licensed landfill facility.
 - v. Hazardous Waste to be disposed of under the Hazardous Waste Regulations (England and Wales) 2005
- JMR will provide a written description of the waste that will enable anyone receiving it to dispose of it or handle it in accordance with their Duty of Care. The written description is called a waste transfer note or duty of care note. **Both parties must keep a copy of this transfer note for two years.**

A Waste Transfer Note must have the following information:

A written description of the waste. The description must be detailed and accurate enough for the person you pass the waste onto to be able to handle the waste safely and appropriately and to ensure that the waste is disposed or recovered at a site authorized to accept it.

The correct 6 figure waste code*.

For example 17 06 05 Construction materials containing asbestos e.g. bonded asbestos

The quantity and what sort of containers it is in;

The time and date when the waste was transferred;

The address where the transfer took place;

The names and addresses of both persons involved in the transfer;

If JMR demolition project value exceeds £300,000, JMR will provide a suitable compliant site waste management plan (SWMP) with further requirements where the value exceeds £500,000.

11. METHOD OF DEMOLITION

11.1 PRE-COMMENCEMENT

"The following processes are indicative and are subject to order and process change, any change will be issued an addendum where required agreed by the Site Supervisor and Line Manager."

1. All staff to attend the JMR Site Management induction prior to accessing the site area. All JMR staff to adhere to site rules, this RAMS and any other relevant documentation including JMR remaining on site during the project.
2. Read and discuss SSoW & Assess Risks with all site staff.
3. Carry out Toolbox Talk if required. This will be repeated on a regular basis and as and when the supervisor deems necessary.
4. Ensure that all operatives and visitors are aware of the security of existing boundaries. Secure work areas where required on site using heras fencing. Suitable warning signage to be displayed in prominent positions.
5. Set up site exclusion zones internally to separate work zones from non-work zones.
6. Erect Heras fencing exclusion zone as per BS6187-2011 in the rear parking area to the front of the building entrance.
7. We will demarcate all areas to be removed using road paint line marker. Areas NOT to be touched will not be marked at all.

The following method sheets are for the sequence of works unless one or more sheet needs to be used in conjunction with each other. The site supervisor and where needed JMR management are to complete the final risk and COSHH before site set up or any works are undertaken.

Plan of works for the soft strip works.

POW REF JMR/Soft Strip		Signature	Date
POW Author	Richard Harris		/ /2017
Site Supervisor			/ /2017

INTERNAL SOFT STRIP WORKS: 1. Prior to the commencement of soft stripping, a suitable drop zone to each building will be set up using Heras fencing with signage indicating it is an exclusion zone. This will house a container for waste materials and a container for metal recyclable materials. 2. Operatives starting at the top floor will carry out Soft strip of all the building interiors working on a floor by floor basis using appropriate hand tools to remove any, suspended ceilings, fixtures and fittings, timber skirtings, doors and frames will be stockpiled for removing on completion of all soft strip works. Site Supervisor will identify items, assess and apply correct lifting measures required prior to soft strip and record on Manual Handling Risk Assessment. Access to above ground work areas will be achieved using one or more of the following safe means of access in following order as appropriate: 1) Approved Mobile Alloy Tower Scaffold 2) Suitable Approved Podium.  Suitable Fire Extinguishers/Fire Warning System will be sited in suitable positions as the works are carried out. 3. On completion of the above, operatives working from top floor down will segregate soft strip stockpiled arisings. On each floor of the building a window will be removed so all materials can be safely removed from the building on a floor by floor basis into the drop zone, all materials will be safely disposed into Designated Containers situated within the drop zone. 4. 360° Excavator will then be deployed to periodically enter the drop zone and process the arisings periodically sort and ensure there are placed within suitable containers using a demolition grab attachment. 5. When the containers are full they will be removed from site in accordance with JMR Traffic Management plan and disposed of in accordance with JMR Housekeeping & Waste Strategy.	Scope: The Soft Strip of all the structures which includes the removal of any fixed items such as cupboards, doors and any non load bearing partition walls, carpets and non asbestos floor tiles.	
	Confirmation that prior to any works taking place, the immediate area around the building will be fenced off with ‘Heras’. Where practical and possible the fencing will delineate an exclusion zone of at least 3 metres from the building. Warning signs will be posted and a Banksman positioned to control the movement of people and machines in and around the access point and along the works boundary. The whole of the demolition works areas is to be an exclusion zone to all other trades and members of the public. Site Manager SignatureDate.....	
	Confirmation that an Asbestos Survey has been carried out on the buildings and all ACM’s have been removed from site during the asbestos removal works. Site Manager SignatureDate.....	Hold Point
	Confirmation that the Site Manager/Supervisor has in his possession written confirmation of all service disconnections / terminations and or service diversions. Where services are not terminated at the site boundary the precise location is known and documented, and where required pipe work purging has been carried out. Site Manager SignatureDate.....	Hold Point
	Confirmation that additional fencing has been installed around the identified openings prior to soft strip commencing creating suitable and sufficient drop / exclusion zones. Site Manager SignatureDate.....	Hold Point
	The clearance and soft strip works consist of the removal of all redundant fixtures and waste as detailed in the scope.	Hold Point
	Operatives wearing the appropriate P.P.E (see P.P.E assessment) will strip the items (described in the Scope) using hand held mechanical and non-mechanical tools lever bars, sledge hammers, wheel barrows and where possible a Bobcat Skid-Steer.	
	Glazings and their frames will not be removed during the Softstrip phase of the demolition. To reduce risks the window frames will be removed during the demolition of the structure. The wooden frames can then be segregated from a remote distance using the D-Rig’s grab attachment.	Safety Point
	Access /Egress points within the structure will be kept clear of any debris to avoid slip and trip hazards. Access into these areas will be limited and controlled by the working area supervisor.	
	Within the portal structure materials will be deposited into manageable piles within the building. Skips or containers will be located near one of the unused emergency exits. This will be segregated for use only during the Softstrip for depositing the built-up materials. Where practically possible Bobcat Skid-Steers will be used to remove the piles within the portal structure.	
	As material piles build up within the external safety exclusion zones these will be periodically removed. This will be undertaken using a D-Rig fitted with grab attachment. On confirmation that works have stopped the D-Rig will enter the exclusion zone then using the 360° grab attachment the redundant materials will be picked up and deposited into suitable skips or containers. Once the area has been cleared the D-Rig is moved out, The operator will communicate to the supervisor and the area will become active again.	
	This work will be repeated around the structures to reduce the distance the redundant materials need to be carried, therefore reducing manual handling.	

Plan of works for removal of rear parapet wall.

POW REF JMR/Rear Wall		Signature	Date
POW Author	Richard Harris		
Site Supervisor			
Plant			

Operatives working within the structure will work from west to east along the wall reducing the height, using hand tools where needed and mechanical breakers and attachments fitting to Plant. Access for the plant will be via the car park ramp.

As work progresses from west to east access to completed works is to be closed off to ensure any open edges that have been formed by the work cannot be accessed.

Where possible debris from the work will be brought into the building footprint and pushed into the centre of the car park floors with a Bobcat and will be removed during the main demolition works.

Scope: This element of the method statement deals with the careful deconstruction of the rear wall within close proximity to the NwR Assets that is to remain on site. The works will be undertaken by operatives working internally from the car park floors and ramp and externally on the designed scaffold system. The amount of the structure to be removed will be as far as possible to below the high of the NwR fence.
Sequence of Works: • Installation of scaffolding system to the external of structure prior to works • The drop zone will then be created at each level starting at the lowest level (1st floor) • Deconstruction of external walls to a level just below the NwR Fence
Confirmation that the scaffold system is installed as per the design. Site Manager Signature..... Date.....
Confirmation that the building has been checked for unauthorised personnel prior to the commencement of the demolition and that the building will remain secure throughout the demolition process. Site Manager Signature..... Date.....
Confirmation that Banksmen are positioned to advise of any situations which may give rise to Health & Safety risks to plant operators, operatives and passers-by. Site Manager Signature..... Date.....

Plan of works for the SUPER STRUCTURE REMOTE DEMOLITION.

POW REF JMR/Hand Demotion		Signature	Date
POW Author	Richard Harris		/ /2017
Site Supervisor			/ /2017
Plant			

1. Following a site visit to ascertain logistics and method of works it has been decided that the building will be demolished by remote means in line with BS6187:2011 Demolition code of Practice using 360 Excavators fitted with Rotating Demolition attachment suitable for building type structure. 2. Excavator operative who will be experienced and competent in this type of work and who will hold a current CPCS Plant Operators ticket will proceed to demolish the structure. 4. The structures will then be systematically demolished, on a staggered basis, floor by floor, working always from top to bottom maintaining the structural stability of the buildings. 5. The debris generated will be allowed to fall onto the floor slab below and, to prevent excessive build-up of debris overloading the floor, it will periodically be dragged/pulled off of the slab and onto the ground floor below by the Excavator utilising the demolition attachment. 6. Periodically during the demolition process and when necessary the operator of the Demolition Excavator will be instructed to stop by the Demolition Site Manager. The Demolition Excavator will then be repositioned away from the working area to allow a smaller excavator fitted with grab or bucket attachments to enter the area and begin to process, segregate and load the respective debris generated. 7. Concrete and brick debris generated will be moved from the immediate working area via an excavator fitted with a grab or bucket attachment and stockpiled in a pre-determined area in readiness for Crushing 8. At the end of each shift the JMR Site Management will ensure that the remaining structure and immediate working area is left in a safe, clean and structurally stable condition. Note: Hoses with fine mist hand sprays will also be located close to the work area and used by Demolition Operatives to also dampen down the arisings prior to loading. This ensures that the most effective dust suppression is being achieved at the point at which it is being produced.	Works will start from the west side of the building and the machine will stay parallel to NWR Boundary, the 360 will not pass over the 5 metre line away from the site boundary out the back of the site from the railway line, this is marked on the site plan. A physical barrier will be erected along the site to give a visual aid to the machine driver where the 5m NwR exclusion zone is. The structures will then be systematically demolished, on a staggered basis, working always from top to bottom maintaining the structural stability of the buildings.		
	Scope: This element of the demolition consists of methodology for reducing the concrete framed structures down in height. For this element of the demolition the structure will be divided into bays. Bays will be determined by any load bearing element of the structure i.e. rooms.		
	Confirmation that the building has been checked for unauthorised personnel prior to the commencement of the demolition and that the building will remain secure throughout the demolition process.		
	Site Manager SignatureDate.....		
	Confirmation that Banksmen are positioned to advise of any situations which may give rise to Health & Safety risks to plant operators, operatives and passers by during the remote demolition.		
	Site Manager SignatureDate.....		
	The D-Rig will be located at the front of the car park for the commencement of the mechanical demolition of the structure.		
	The D-Rig fitted with its 360⁰ rotating concrete pulverising attachment will create an opening just below the slab wall elevation. The D-Rig will then work across the width of the first bay, reducing the building down in height. Where practically possible the redundant materials will be guided from the building into the safety exclusion zone between the building and the front of the D-Rig.		
	The D-Rig will next commence the removal the first structural bay roof section. The D-Rig using the pulverising attachment will process the roof slab across the entire width of the bay, working in a front to rear method approximately 1 metre at a time.		
	The D-Rig will use the attachment to sweep into the building at this point to retrieve any redundant material that may have congregated on the 2nd floor. This will be done as regular as necessary to ensure there is no floor overloading.		
	The D-Rig will next commence the removal of the brick / block side walls to the first structural bay of the building. Using a top down method the wall will be processed down to the 2nd floor in courses. The waste materials from these works will again where possible be guided into the footprint of the building.		
	Once the walls have been removed to the first bay the D-Rig will start processing/removing the floor associated with that bay. This will be done using the same methodology as the roof slab, working across the width of the bay from front to rear in one metre strips.		
	Once the floor slab for that bay has been removed the D-Rig will commence the removal of the associated walls to the bay below again using the methodology as previously described.		
	The D-Rig will progress through structure using the methodology as described above, removing a single structural bay at a time working from the upper floor(s) down		
	Where practically possible materials will be segregated into waste streams and recycled.		
	All waste transactions will have transfer notes which will be retained on the site for inclusion into the developing health & safety file.		

Plan of works for removal of ground floor slabs and foundations.

POW REF JMR/Slabs and Founds		Signature	Date
POW Author	Richard Harris		/ /2017
Site Supervisor			/ /2017
Plant			

Prior to any works being carried out on site that require any form of breaking ground. All service drawings and all other information JMR have to hand will be viewed. All services onsite will be marked on the floor as per the drawings provided.

Due to the nature of the works and the amount of known services on the site. Permits to break ground are only to be valid for one shift. All permits to break ground are to be closed off at the end of each shift.

No heavy plant is to break ground and work within 2m of any known underground service.

As far as reasonably practical all excavations are to be back filled before the end of each shift.

Where needed any open excavations that can't be back filled for any reason will be fenced off to prevent access to open edges.

Scope: This phase consists of the removal of the ground bearing floor slab / foundations to 2 metre below top of slab, then removal of hard standings. Active vibration monitoring will be carried out during these works

Confirmation that the structure has been demolished down to the slab level before the commencement of this task.

Site Manager SignatureDate

Confirmation that drawings have been provided pertaining to the location of any service around the site boundary that may be affected by the works.
And no dig zones are in place

Site Manager SignatureDate

Once the structure has been demolished down to the ground bearing slab all the redundant materials will be cleared form the working area leaving only the slab, foundations and hard standings to be removed.

Using the bucket attachment on the D-Rig the ground bearing slab will be lifted. Starting in one corner of the slab a small excavation will be dug to expose the underside of the slab. The D-Rig will then sit on the slab section and lift up the slab, the slab will break up under mechanical pressure exerted by the D-Rig. Should the slab require pre-weakening the D-Rig fitted with its hammer attachment will pepper the slab in strategic locations to help break up on lifting.

Once the slab has been lifted the foundations will be grubbed out and all arsings will be stock piled ready for crushing

Any voids created during the works will then be filled with suitable material won from the works; this will then be compacted down using the D-Rigs fitted with it's bucket attachment. Once pre-compacted the D-Rig will then track over the areas to ensure the ground is suitable compacted.

The D-Rig will then grade the work area using it's bucket attachment to the contours of the site.

Where practically possible materials will be segregated into waste streams and recycled.

POW REF JMR/Hand Demotion		<u>Plan of works for Crushing.</u>	
		Signature	Date
POW Author	Richard Harris		/ /2017
Site Supervisor			/ /2017
Plant			
Operatives will stand at a safe distance from the crushing operations. Operatives will only access the machine on the maintenance platform when the machine has been isolated and check for blockages. All operations will cease when checking is in process. Radio communication, visual communication, or air horns will be used to advise the machine operator to stop operations. Emissions and dust will be monitored a minimum of three times daily and recorded in the site diary. On delivery of the mobile crushing plant it will be set-up ready for work i.e. support jack legs lowered into position onto existing concrete or prepared surface until they take full weight of the unit. Full discharge conveyor will be hydraulically extended and placed until supported by wire strainers. Magnetic belt installed and connected for work. The machine to be checked for even levels by use of spirit level to ensure minimum vibration and stability. Crusher engine with guards fitted and secured. All access ladders secured and fitted. Machine will be started. Clutch will be engaged to enable the drive belts and jaws to function. Stop/Start switches will be checked to ensure correct operation. Water hoses will be directed onto discharged conveyor and jaws to suppress dust arisings. Jaws will be set to produce 75mm arisings.	Scope: This element of the method statement is for the onsite crushing required, the resultant material will be 6F2		
	Confirmation by the Project Manager that the ‘Crusher’ is located as per the attached drawing. Project Manager Signature Date.....		
	Confirmation that the client or others within close proximity have been made aware of the working start times and proposed duration, so where required the nearby live areas can be notified so that proactive measures and a sympathetic programme can be implemented. Project Manager Signature Date.....		
	If the crusher has a blockage of any description, the machine will be isolated and a permit to work issued. Project Manager Signature.....Date..... Crusher operators signature.....Date.....		
	Using the D-Rig standing on the existing stockpile will be excavated to the side of the mobile crusher. The crusher sorter will deposit unsuitable arisings to the sides and rear of the resultant stockpile. Ensure the machine operator has a high enough platform to allow a full-uninterrupted view of the crusher’s feeder and jaw mechanism.		
	The excavator will be placed behind the loading hopper of the crusher at a level that ensures the driver/operator has full uninterrupted view of the crushing plant and crusher operator. He will then excavate into the stockpiles, filling the excavator bucket with demolition arisings and deposit as required (slowly) into the feed hopper ensuring even distribution on the feeder tray while at the same time checking for oversized pieces. Fines and metals will be removed mechanically from the crusher, wood and plastics will be sorted as the machine loads the crusher and glass and remaining wood and plastic will be picked when safe to do so from the crushed pile.		
	All crushed arisings are then moved from the discharge conveyor, this will usually be carried out by a loading shovel. The suitably crushed arisings are then transported to the designated permanent stocking area.		

Mark relevant COSHH sheets that relates to the site / Works

001 Diesel	X	002 Brick Dust	X	003 Petrol	X
004 Air-con		005 Lead		006 Oxygen	
007 Cleaning products		008 Gloss Paint		009 Emulsion Paint	
010 Grease		011 Chlorine Tablets		012 Creosote	
013 Weed Killer		014 Engine Oil	X	015 Hydraulic oil	X
016 Fertilizer		017 Tarmac	X	018 Ad- Blue	X
019 X - Tex		020 Pigeon Guano	X	021 Ornikill	
022 Gypsum		023 Rockwall		024 Propane	

Additional Site Hazards

Assessment of risk following review of additional hazards *Delete* HIGH / MEDIUM / LOW

Additional Controls

Control measures

Tick relevant Risk sheets that relates to the site

001 Dust	X	019 Soft Strip of Buildings	X	034 Lead	X	051 Lifting Operations	X
002 General Demolition Procedures	X	019a Working Alone (Soft Stripping)		035 Working from a MEWP		052 Site Clearance Using HIAB	X
003 Noise	X	020 Non Licensed Asbestos Removal		036 Loading Unloading Plant	X	054 Disc Cutting	X
004 Excavations	X	021 Contact with Asbestos		036 Working Over Water		055 Disc Cutting Steel Oxy-Propane & Welding	
005 Demolition Falling Materials	X	022 Removal of Asbestos Cement Sheeting		037 Loading Unloading RoRo Bins, Skips	X	059 Chain Saw	
006 Heras Fencing	X	022a Mechanical Removal of Asbestos Cement Sheeting		038 Confined Spaces		060 Remote Demolition of Structure Using HRE	X
007 Fire Hazard	X	023 Removal of Asbestos Containing Materials		039 Storage of Diesel	X	061 Handling Glass from Windows etc	X
008 Live Services on Site	X	024 Handling Asbestos Cement Soffits		040 Using Teleforks		067 Working with Vibrating Compacting Machine	
009 Loading Lorries-Using 360	X	025 Textured Coating		041 Bobcat Skidsteer		068 Grinders – Hand Held	
010 On Site Plant Manoeuvres	X	026 Personal Fall Restraint System		042 Mobile Scaffold Towers		069 Compressed Air and Air Operated Tools	
011 Dropping Materials Through Buildings	X	027 Personal Fall Arrest System		043 Hand Tools	X	070 COSHH	X
011a Dropping Materials using Waste Chute		028 Working from Ladders		044 Hand Demolition		071 Traffic Management	X
012 Manual Handling	X	028a Step Ladders		045 Vibration Tools	X	072 Environmental Impact	X
014 360	X	029 Handling Plasterboard		046 Concrete Breaking	X	073 Working Adjacent to Roads & Footpaths	X
015 Remote Demolition	X	030 Slips, Trips & Falls	X	047 Pneumatic Tools		074 Site Visitors	X
016 Crushing of Materials	X	031 Psittacosis Risk	X	048 Quick Hitch Attachments	X	075 Third Parties & General Public	X
017 Dismantling Steel Framed Structures		032 Weils Disease – Leptospirosis	X	049 Working at Height	X		
018 Needlestick Injuries	X	033 Silica Dust	X	050 PPE	X		

Additional Site Hazards

Assessment of risk following review of additional hazards *Delete* HIGH / MEDIUM / LOW

Additional Controls

I have read and understood this POW and have access to JMR SOP which is to be used in conjunction with this POW

Name	Date	Signature

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12. PERMITS TO WORK

- Relevant Permits to be issued by JMR Site Management prior to works taking place.
Hot Works, Permit to enter building, Permit to break ground.

13. HAZARDS & RISKS/COSHH

14.1 COSHH ASSESSMENT

Environmental Risk & Risk from Hazardous Substances (COSHH) and Control Measures

- Refer to Data Sheets Contained within Site File
- Carry out COSHH survey to identify any hazardous materials or substances during the demolition process. If any are found they will be recorded on COSHH sheets and then removed strictly in accordance with the regulations.
- All information recorded to be attached to this document.
- Spill kits to be provided for all mobile plant where there is a risk of heavy liquids coming into contact with ground/foul/storm water drainage channels

14.2 RISK ASSESSMENTS

Assessment of Health & Safety Hazard/Risk,

- Significant hazards associated with the demolition process have been identified as risks to demolition workers and members of the general public’s health and safety and the resultant control measures as detailed on the attached risk assessments will be implemented in order to reduce their effect.
- Risk is assessed in accordance with the HSE’s Guidance “Five Steps to Risk Assessment” as:-
 - Look for the hazards
 - Decide who might be harmed and how
 - Evaluate the risks and decide what control measures are required
 - Record the findings
 - Review the assessment and revise it if necessary

HEAD PROTECTION BS EN 397: Specification for industrial safety helmets EYE PROTECTION BS EN 166: Specification for personal eye protection BS EN 169: Specification for filters used in eye protection for welding etc prEN 175: Equipment for eye & face protection during welding/allied processes. EAR PROTECTION BS EN 352-1: Specification for earmuffs. BS EN 352-2: Specification for earplugs. prEN 352-3: Specification for earmuffs attached to Safety helmets. prEN 352-4: Specification for level-dependant earmuffs. BS EN 458: Selection, use care & maintenance of hearing protectors. RESPIRATORY PROTECTION BS EN 136: Full face masks. BS EN 137: Self-contained open-circuit compressed air. BS EN 140: Half masks & quarter masks. BS EN 149: Filtering half-masks against particles.	HAND PROTECTION BS EN 420: General requirements for gloves. BS EN 374: Protective loves against chemicals/ Micro-organisms. BS EN 388: Protective gloves against mechanical risks (abrasion, cutting, etc). BS EN 407: Protective gloves against thermal risks(heat&/or fire). prEN 12477: Protective gloves for welders. GENERAL PROTECTION BS ENV 343: Protection against foul weather, HEAT & FLAME PROTECTION BS EN 470-1: Protection clothing for use in Welding, grinding and cutting. CHEMICAL PROTECTION BS EN 7184: Selection, use and maintenance of chemical protective clothing. FOOT PROTECTION BS EN 345: Specification for safety footwear for professional use.
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Appendix Index

- 1. Risk Assessments**
- 2. COSHH Assessments**
- 3. Service drawings**
- 4. Scaffold designs**

5. Risk Assessments

See site safety pack if viewing this document onsite

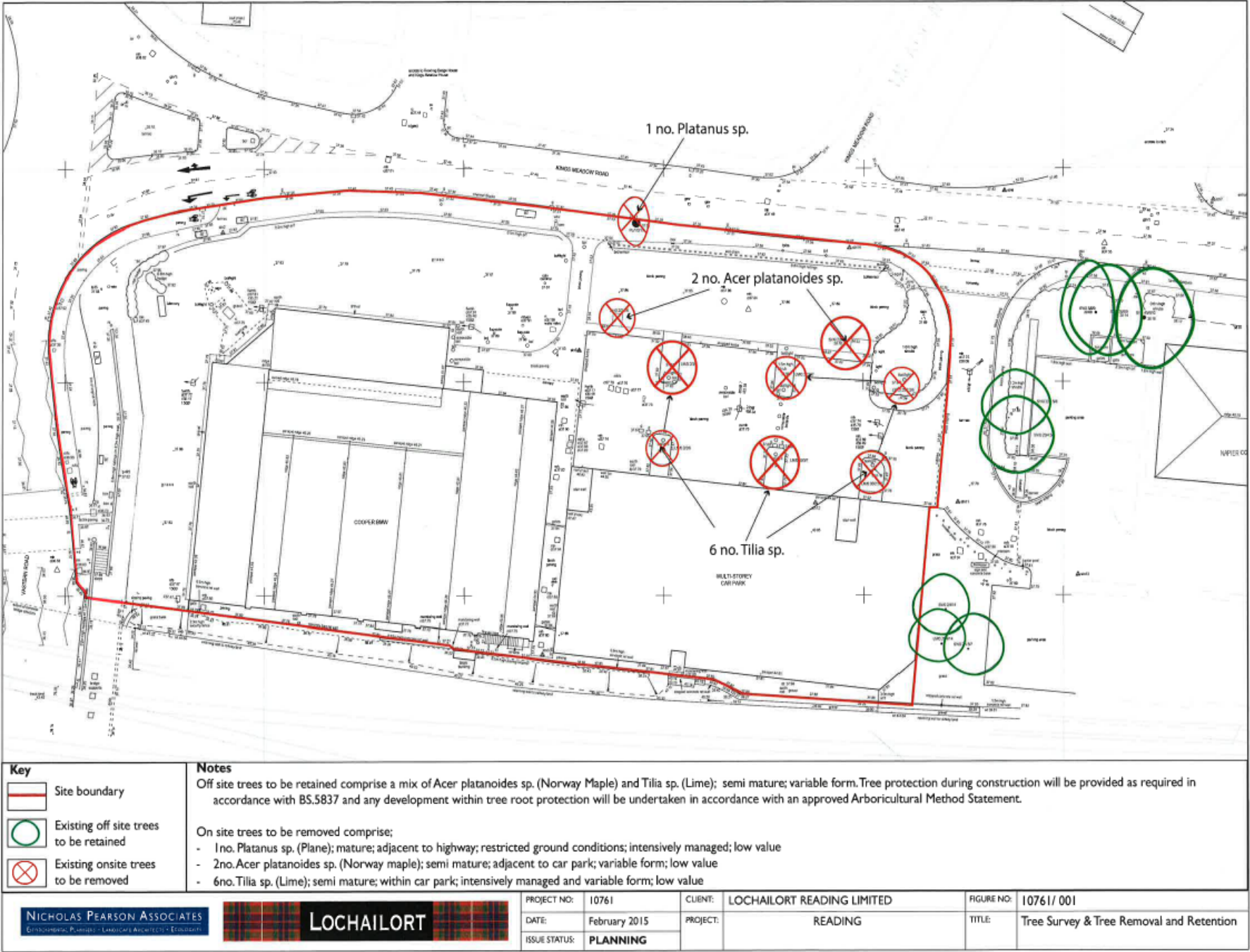
See attached Zip file if viewing on electronic document issue.

6. COSHH Assessments

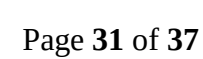
See site safety pack if viewing this document onsite

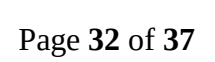
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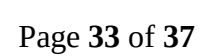
7. Service drawings & Pre construction information













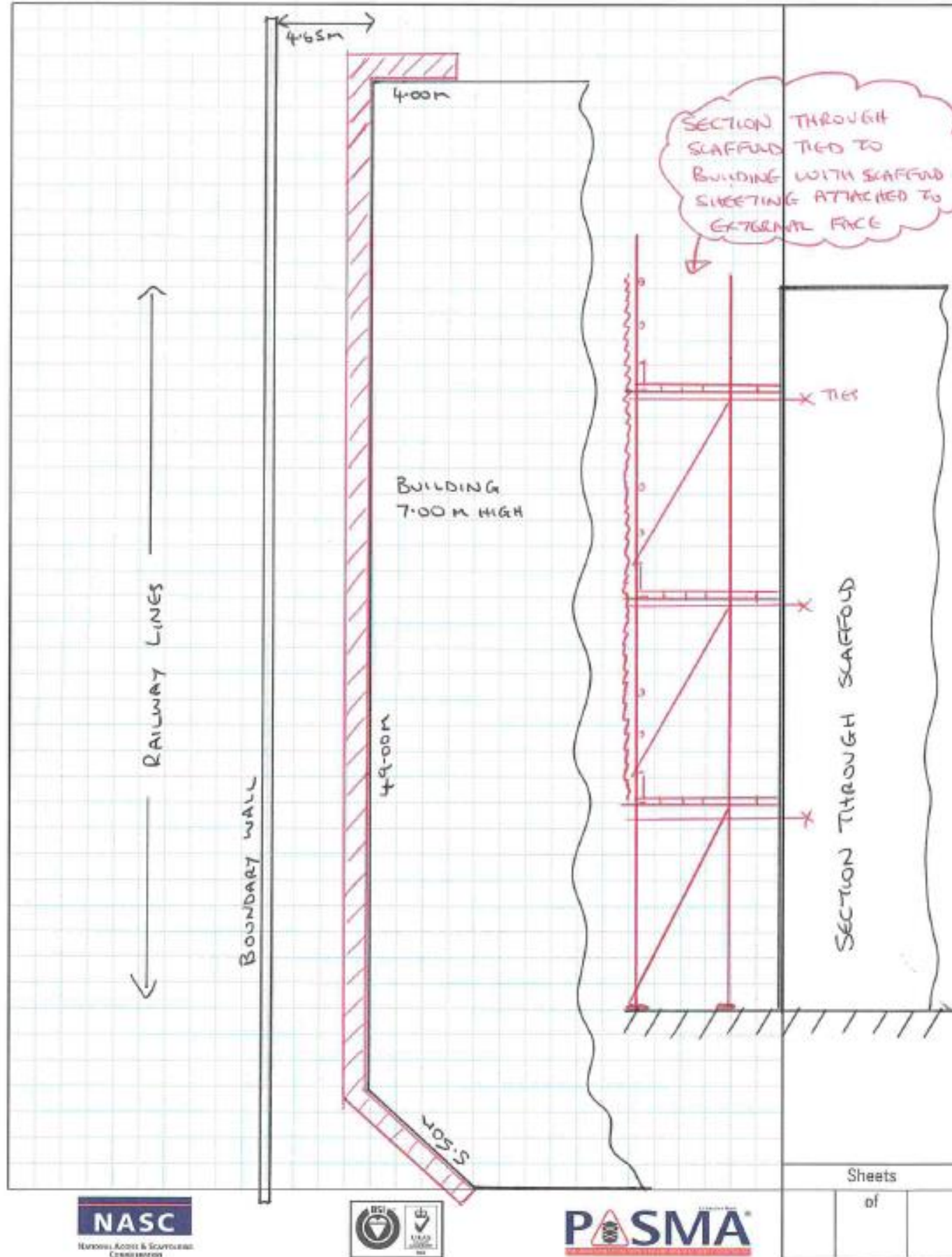




8. Scaffold designs

BLENOWE SCAFFOLDING
01256 - 841400

Client J MOULD System _____ Prepared _____ Date 22-2-18
Project KINGS MEADOW RD File No. _____ Checked _____ Date _____
Section RENDERING Org Ref _____ Approved _____ Date SCALE: 1:250



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