Jacobs Bond Pascoe – Wrexham -GBS3668
Date:12.09.25

Maelor Foods – Wrexham

Document Ref: GBS3668

Method Statement / Construction Environmental Management Plan / Construction Traffic Management Plan.

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Date: 12.09.25
Status: FC
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Originator: M. Whittle
Client Acceptance:

Mark Whittle



Status Code:

D = Draft P = Preliminary FI = for information

FA = for acceptance FC = for construction

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1. Scope of Work

Task briefing for the installation of a 3.5m Absorptive Barrier system at the location shown on the contract drawing – Wrexham. Steel posts are to be lifted into augered concrete foundations. Concrete gravel boards and boards are then to be lifted into the posts by telehandler or excavator.

Two double gates and a single pedestrian gate will be installed as part of the works. The double leaf gates will be automated.

2. Description of Work

2.1. Site Overview

The site is located in Wrexham, North Wales. The proposed point of access / egress to the work-site will be at the designated works access / egress points only. JBP installers are to stay within the working boundary's set out by the Main Contractor at all times. The Main Contractor is to provide a site induction for all JBP site staff before works begin. A traffic management plan will be put in place before beginning works or during the site induction.

Daytime hours of work will be carried out between the hours of 08:00 to 18:00 Monday to Friday. Saturday & public holiday working to be advised as and when required).

2.1.1. Offloading and Movement of Materials

All materials are to be delivered to the site location by lorry, here it will be offloaded and stored on site. Materials to be inspected upon arrival. Please see APPENDIX J.

All lifts must be carried out as per the approved lift plan. All operatives must be briefed before work starts. Operatives to stand in a position of safety behind a physical barrier during unloading unless acting as a banksman.

2.2. Construction Details

2.2.1. Post Installation Sequence

1. JBP site staff are to attend the site induction and the JBP supervisor will brief the site team before beginning works.
2. The Jacobs Bond Pascoe engineer will mark out the barrier alignment and provide levels to install to. The JBP Supervisor will mark out the post spacings along the alignment.
3. The Jacobs Bond Pascoe engineer will issue a permit to dig. JBP Operatives will not commence work until they have been briefed and the permit to dig issued. GBS staff to scan the works area with a CAT and Genny.
4. Set up the excavator as necessary to suit the first location.
5. Commence excavating the foundation using an excavator and auger unit. A banksmen must oversee all excavations, checking for services every 300mm and before breaking ground. The foundation depth will be checked as the excavation continues until the design depth has been reached. The spoil generated will be spread locally.
6. The JBP Supervisor is to ensure the hole is free of any debris. If the hole is likely to collapse due to the ground conditions, then shuttering will be inserted to prevent this. Any voids outside the shutter will be filled with sand. The client will be informed if this is required.
7. Once the foundation excavation is complete, the excavator is to be moved to the next location and the process repeated.

8. Organize for steel posts to be moved to the working area. Operatives are to stand in a position of safety behind a physical barrier during the lift unless they are acting as a banksman.
9. Organize for concrete to be delivered to site (Pre mixed). Delivery drivers are to follow the site access routes. The lorry will offloaded the concrete into a dumper to transport to the works area.
10. If the lorry is required to reverse then it must be accompanied by a banksman who must be in a position of safety along with any other operatives in the area.
11. Concrete will be poured into the post foundations from the dumper or concrete wagon until the design level is reached.
12. Posts are then to be lifted into the poured foundations and set to line & level in position in accordance with the contract specification. (Posts are to be lifted by excavator, see lift plan APPENDIX G.
13. Ensure posts are plumb, when concrete has reached sufficient curing strength to self-support posts; adjust line and level of posts.
14. The installation of the gate posts will follow the same method, the position of the gate will be marked out and agreed with the engineer before installing.
15. Once the gate posts are in place the leaves will be installed. The leaves will be lifted into position on the hinges using the 9t excavator and lifting strops.
16. The installation of the rams for the automation of the gates are to be done by others. A specific set of RAMS to cover this is attached within Appendix M.
17. Upon completion of posts arrange for Client's Site Representative to inspect and sign off as accepted (if required).

2.2.2. Barrier Installation sequence

1. Site supervisor to run through the task briefing sheet at the start of every shift before works begin. The site supervisor must also run through the RAMS at the start of the project + when a new installer starts work on their site. Please see APPENDIX J.
2. The excavator will lift the concrete gravel boards into position within the web of the steel posts using lifting strops.
3. Backfill and level excavated soil around noise barrier gravel boards.
4. Once gravel boards have been installed, Poly panels will be lifted into the web of the posts and fixed in place.
5. Clear site of all unused materials and leave clean and tidy.
6. As work progresses ensure all quality paperwork is complete and signed off with copies to Client's Site Representative. Please see APPENDIX L.

2.2.3. Waste Material/Spoil

Spoil generated during the excavation of the post foundations is to be spread locally . Any construction waste generated is to be disposed of in the appropriate site skip or in the JBP hired skips for disposal off site.

2.2.4. Working at Height

Due to the height of the barrier access to the top of the alignment. Access will be from MEWPS/scaffold towers/hop-ups or ladders. Ladders are to be used where other methods are not suitable and for term working.

2.2.5. Use of MEWP

Where the height of the barrier makes it necessary, access to the point of work will be by the use of 9MTR Cherry Pickers. Cherry Pickers to come with all supporting documentation &

certificates. Only PAL & IPAF certified persons are to operate the cherry pickers. A rescue plan is included within Appendix K.

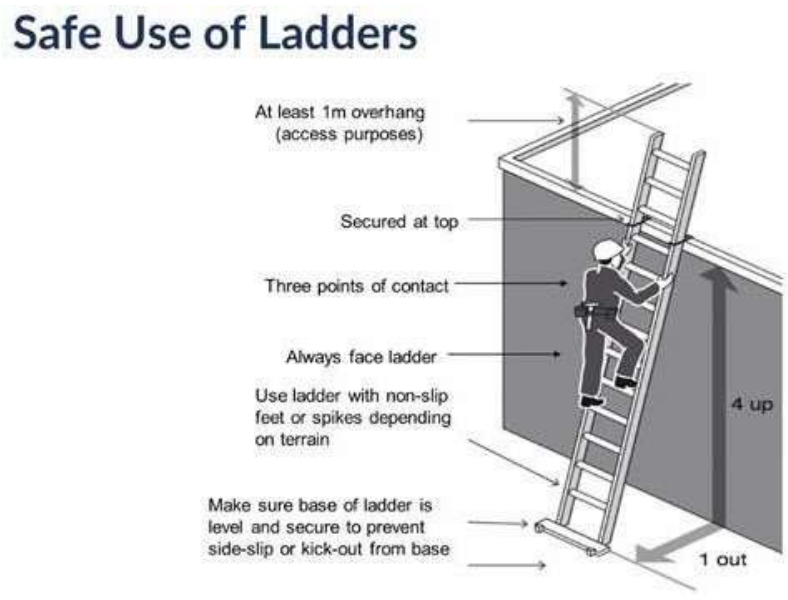
2.2.6. Access to the works by hop-ups
Where the height of the barrier makes it necessary, access to the point of work may be by the use of hop-ups. When these are required site staff must ensure they are set up securely on level ground before using them.

2.2.7. Protection of Open Foundations
All open foundations are to be protected by road pins and netlon. Plywood boards will be used to cover the open foundations. The plyboards must be secured down so as to prevent movement in case of high winds. If foundations are to be left open more than 24hr the coverings must be inspected at the start and end of shift to check they are still secure and in place. Open foundations are not to be left without coverings.

2.2.8. Access to the works by Scaffold Tower/ Podium Steps
Where the height of the barrier makes it necessary, access to the point of work will be by the use of Portable Aluminium Scaffold Towers.
During any period when a Scaffold Tower is in use the erector will ensure that the base of the scaffold tower is securely locked in position. Only PASMA certified persons are to erect / dismantle the scaffold towers

2.2.9. Access to the works by ladder
Ladders are only to be used for short term working and where no other method of access is suitable. Ladders must be inspected before use and a permit must be obtained from the site manager before beginning works.

1. Where necessary, access to the point of work may be by ladder.
2. During any period when a ladder is in use the erector will ensure that the base of the ladder is securely secured by putting the base of the ladder into the ground and making sure the ladder cannot be easily moved.
3. The ladder shall have out-riggers and a minimum of two site staff are to be present for any works using a ladder and works must be of short duration.



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2.3. Site Specific Rules

1. Mobiles are not permitted onsite and must be left in the van at all times. Phones to be checked every 2 hours and if necessary, calls must be made from designated area.
2. Smoking is not permitted onsite. Smokers are to use the designated smoking shelters
3. Work areas to be kept clean and tidy at all times all trip hazards are to be removed and stored correctly.
4. All JBP's installers are to be over 18 years of age.
5. Installers to attend a safety induction on the first day & then pre-start meetings as and when required. Pre-start meetings to take place when a change of work method occurs, i.e. from installing the posts to installing the noise barrier panels. New risks and potential hazards to be identified. After the pre-start meeting all in attendance must sign the acknowledgement form. (Please see below – end of RAMS)
6. The works are to be carried out on a live site with HGV & Plant movements throughout the day. Installers to be aware of moving vehicles at all time and stick to designated walking paths.
7. All delivery and JBP installer vans to enter and exit the work area as per the below traffic management plan – APPENDIX I
8. All vehicles to comply with chapter 8.
9. All installers must attend the Jacobs Bond Pascoe site induction and complete a drug and alcohol test if required.
10. JBP supervisor to issue start of shift briefing prior to starting work each shift.
11. All deliveries must be booked in with Jacobs Bond Pascoe 24hrs prior to arrival on site.
12. Site emergency procedures to be confirmed in onsite induction. All JBP vehicles to include small powder fire extinguishers.
13. Jacobs Bond Pascoe to provide height restriction goalposts in accordance with any GS6 permit requirements prior to works commencing.

2.4. Responsibilities of Individuals

1. Managers and Supervisors must ensure that all necessary / essential equipment is available to carry out the works safely and with due regard to the environment
2. Managers and Supervisors must ensure works are carried out in accordance with this method statement and the controls of the risk / COSHH Assessments are in place
3. All operatives must hold current CSCS cards.
4. All operatives must be trained to use any plant used for the activity
5. All operatives must carry out the works as instructed by the Manager / Supervisor in accordance with this Method Statement and associated Risk / COSHH Assessments
6. Generic risk assessments, COSHH Assessments and forms will be available with the working gang and it is the responsibility of the team leader to ensure the controls and forms are used as per the procedures

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3. Plant and Equipment Use and Control Measures

3.1. Hired Plant & Equipment

All hired plant will have the relevant certificates for display upon request when delivered to site. LOLER certificates will be issued with service check sheets with excavators and telehandlers. Where lifting equipment is to be used the certs will be provided either before works begin or on arrival on site if the equipment is hired in. The following plant/equipment will be used on site during the works (not including hand tools).

Plant/Equipment:
9 Ton Excavator – with rubber pads
17m Telehandler
Scaffold Tower 2.5/3m high.
Z45 Cherry Picker
3 Ton Dumper
Petrol Generator (must be kept on drip tray at all times)
110V impact wrench

3.2. Control Measures

Electrical:

Always check hand tools / equipment has a current PAT certificate. Visually check all equipment and cables for damage. Never use 240V equipment on a work site only 110v or cordless equipment to be used. Experienced and suitably certificated operatives only to undertake electrical works

3.3. Noise & Vibration (Nuisance & Health Hazard)

Drilling operations, method statement briefings, correct PPE. Permit to work.
All operators of vibration equipment are to be competent.
Pre operator checks to be completed - attachments maintained – DO NOT use blunt implements.
Maintain good blood circulation by keeping dry, warm and exercising fingers.
Rotation periods of operators using equipment will be assessed and monitored by the Supervisor.

3.3.1. Noise and HAVs Monitoring

The same ear defender will be worn for each item of plant where required.

Ear defender value = H35 M30 L22

Machine	Continuous Average dB (A)	Peak dB (C)	dB at Ear
Impact Wrench	93	104	76
Petrol Generator	70	79	63
9T Excavator	104	110	75
17m Telehandler	104	111	74

Vibration

Machine	Vibration Magnitude	Exposure Action Value	Exposure Limit Value
Impact Wrench	11 m/s2	25 Mins	1 Hour 39 Mins

Vibration times to be monitored and drilling to be rotated.

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3.4. Environmental Controls

3.4.1. Spill Procedure

- Make sure that you have absorbent materials and other containment equipment, (Spill Kit).
- Make sure that the equipment is easily accessible and placed close to where it might be needed.
- Make sure that you replace materials after use.
- Always clean up spills immediately with the Spill Kit provided or alternative sources of absorbent material e.g. sand and place in the blue bag provided.
- All material spills are to be disposed of in a safe manner:
- All oil and fuel waste is hazardous waste
- All chemical waste is hazardous waste
- Any hazardous waste is to be notified to the Compliance Manager for arrangements for disposal to be made.

3.4.2. Storage and Use of Chemicals/Hazardous Materials

- All chemicals are stored in secure containers; diesel is stored in “Jerry Cans”.
- All containers are marked with up with the actual contents.
- The containers are secured safely in the van when not in use.
- Containers placed on plant nappies when not in van.
- Any spillages as a result of refuelling are cleaned up with the Spill Kit provided
- Refuelling is to be on a hard standing whenever possible. Plant nappies required.
- All spoiled pieces of spill kit are placed in the Blue Bag and disposed of as hazardous waste.

3.4.3. House Keeping

- Stack fencing materials in a safe and tidy manner taking into account the means of access and handling to the designated point of use.
- Welfare facilities will be provided by Jacobs Bond Pascoe.
- Work areas will be left clean and tidy at the end of each working da
- Waste will be placed in skips provided

3.4.4. Waste Arrangements

- Waste Carriers Licence must be verified
- Adequate waste arrangements will be put in place
- All waste leaving site will have a Waste Transfer Note

Hazardous Waste will be referred to the Compliance Manager

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4. ProJBPe of Works
The current proJBPe of works is 13.10.25.

5. Supervision of the Work
Project Manager - Responsible for making sure the works and equipment used are in compliance with the accepted method statement and that the workforce has been briefed and understands the requirements of this method statement. (Please see APPENDIX D)

Supervisor/Foreman - Responsible for day-to-day supervision, safety and quality.
Please see section 7 for names and telephone numbers of onsite supervisors. (Please see APPENDIX D – Training Matrix + Tickets)

6. Health and Safety Requirements
All personnel will receive a Jacobs Bond Pascoe site safety induction prior to commencement of the works. All operatives will be briefed on the contents of this method statement. Thereafter it will be the responsibility the Supervisor / Foreman to brief all operatives before each work period or change in activity regarding:

1. The works to be carried out.
2. Any hazards that may exist, i.e. Steep embankments, uneven ground conditions, open excavations, areas where heavy plant will be operating.
3. The safe method of working to be employed. If methodology changes from the approved RAMS then the changes must be re-submitted for approval and the updated approved RAMS briefed to operatives as amended RAMs.
4. The Supervisor / Foreman to check all plant and operative's tickets.

PPE will be worn as required by the operation being carried out (see risk assessment). Supervisor / Foreman to check that operatives have all been properly site safety inducted, have the necessary PPE and are using and maintaining in good order.

6.1. Welfare and Facilities
The site compound including welfare facilities will be set up at the western end of the works area – what3words ///help.gender.safely. First aid kits will be available in the Client's site offices. Also, all vehicles carry personal First Aid Boxes as well as a separate emergency eye was kit/facility.

Accident books and General Health & Safety Information are kept at our head office. Copies will be kept on site as well as an Accident Report Logbook. Any and all incidents will be reported to the site manager immediately. All accidents and injuries must be reported to the Client's Representative and recorded in their accident book, as well as in line with our own laid down requirements.

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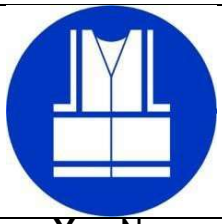
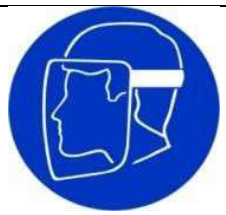
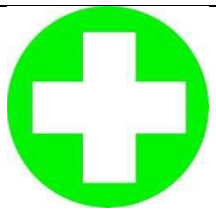
6.2. Personal Protective Equipment (PPE)

All personnel involved in the works will be issued with and will wear the correct personal protective equipment (PPE) to suit the task being performed.

This will include but not be limited to:

Head Protection (Hard Hat) – Mandatory at all Times.
Approved High Visibility Long Sleeved Vest (Yellow/Orange) – Mandatory at all Times.
Approved High Visibility Trousers (Yellow/Orange) – Mandatory at all Times.
Foot protection (Safety Boots – No Riggers) – Mandatory at all Times.
Eye Protection (Safety Goggles / Safety Glasses) – Safety Goggles to be used when cutting and Safety Glasses are Mandatory at all Times.
Gloves – Mandatory at all Times.
Ear Defenders - As Required e.g. when using an Angle Grinder or 110v Impact Wrench. Defenders/Plugs when using powered machines (EN352, H33 M28 L25).

Where spray paint is to be used FFP3 half mask respirators and any other PPE identified in the COSHH assessment.

				
Yes ~~No~~	**Yes ~~No~~**	**Yes ~~No~~**	**Yes As Req.**	**Yes ~~No~~**
EN20345:2004	EN ISO 20345: 2004 S3	EN471 Class 3	EN352:2002, H35 M30 L22	**EN388 4342**
				
Yes ~~No~~	**Yes ~~No~~**	**Yes If Req.**	**Yes As Req.**	**EFAW Yes**
Trousers EN471 Class 3	EN166 3 4 9 B and EN 166 F	FFP 3		

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7. EMERGENCY CALL-OUT NAMES & TELEPHONE NUMBERS

JBP Barrier Systems

Head Office:	Mark Whittle 01323 872243
Supervisor / Foreman:	Alan Briggs 07944 337115
Project Manager:	Marcus Hunt 07498 066773
Safety/Quality Manager:	Steven Day 01323 872243

(B) Client -
Jacobs Bond Pascoe
Mike Gill – Associate Director - 07976 529379

(C) Emergency Services - 999
Note: - if phoning from a mobile phone you may not be immediately put through to the closest regional center but you will be transferred if you make it clear which region you are phoning from.

Nearest Hospital
The nearest hospital A&E department is Wrexham Maelor Hospital approximately 5miles away from the site.

Hospital address is:
Wrexham Maelor Hospital,
Croesnewydd Rd,
Wrexham
LL13 7TD

8. JBP Project Team

Role:	Operative
Project Director	Mark Whittle
Contracts Manager	Marcus Hunt
Project Manager	James Ramsden
Site Forman/Lead Installer	Alan Briggs
Plant Operator	Michael Briggs
Installer /Slinger	Graeme Briggs

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APPENDIX A – Risk Assessment

Method Statement No.	GBS3668-MS	**Operation**	Installation of noise barrier
Location	Wrexham	**COSHH Assessments**	List COSHH Assessments to be attached
Contract No.	Job no. GBS3668	**Permits to Work**	Permit to dig, Permit to work at height
Written By	Mark Whittle	**Pre-start Documents / Inductions**	Site Induction List others as required (e.g. Permit Holder Induction)
Date	15/09/2025		
Revision No.	R0	**Minimum PPE**	Safety Helmet (EN50365), Hi-vis vest/jacket (EN20471 2,2), Safety specs (EN116 F), Steel toe capped boots, lace up only (EN ISO 20345 S3) Safety gloves (min. EN388 4542)

Name	Sign	Date	Name	Sign	Date

Likelihood \ Severity	1	2	3	4	5
1	1	2	3	4	5
2	2	4	6	8	10
3	3	6	9	12	15
4	4	8	12	16	20
5	5	10	15	20	25

Risk Rating	Description
15-25	High Risk – work must stop until adequate controls devised and implemented
6-12	Medium Risk – work may commence only if no other method is viable and with high levels of controls in place
1-5	Low Risk – No further controls required.

Task & Hazards	Potential Outcome	Persons at Risk	S 1	L 1	R1	Control Measures	Responsible Person	S 2	L 2	R2
Pedestrian movement on site. Moving vehicles. Trip/slip hazards. People and objects at height.	Hit by vehicle. Trips/slips.	Employee	5	2	10	• Full site defined PPE to be worn at all times. • Always use segregated pedestrian routes where provided. • Take extra care when crossing traffic routes. • Obey all vehicle and pedestrian restricted zones. • Always gain the attention of plant/vehicle drivers and wait for them to stop and give permission before passing them. • Never walk under raised loads, jibs, buckets etc… • Only use mobile phones in authorised areas. • Take extra care when natural light fades. Do not work without task lighting. • Clean mud from boots regularly. • Be aware of tree roots, uneven ground, holes, loose man hole covers etc…. • Never walk beside open drops, steep slopes unless edge protection provided. • Do not access incomplete scaffolding. • When working near moving traffic chapter 8, or other site approved barrier will be used to protect workers.	• Employee • Employee • Employee • Employee • Employee • Employee • Employee • Employee • Employee • Employee • Employee • Employee • Supervisor	5	1	5

Task & Hazards	Potential Outcome	Persons at Risk	S 1	L 1	R1	Control Measures	Responsible Person	S 2	L 2	R2
Vehicle and Plant use on site. Moving vehicles. Uneven terrain. Open drops. Person at height. Collision hazards.	People & property being hit by moving vehicle. Roll over of vehicle. Person falling from vehicle.	Employee Public Contractor	5	3	15	• Plant and staff to avoid blocking any of the haul roads or routes on site during the works. • Only authorised vehicle routes to be used. If a diversion is required seek Site Managers permission first. • Do not drive in areas beyond the vehicles' limitations. • Operator/driver handbooks to be held with all plant and vehicles. • Do not drive beside open drops unless suitable vehicle restraint barrier is in place. • Site speed limits to be obeyed. • Avoid reversing where possible. Appoint a vehicle marshal where pedestrians and other plant is operating . Prevent pedestrians entering the area. • Amber hazard beacons and reversing alarm to be used where fitted. • Access the vehicle using the steps provided. Mud and other debris is to be cleaned off steps and boots before accessing. • Keys to be removed from ignition when not in use. • Seatbelts to be worn at all times. • Never use phones when driving. **Road Vehicles** • Vehicle to have current MOT and up to date servicing. • Only authorised and licensed drivers to drive vehicles. • Check all vehicles daily for defects. Driver check sheet to be completed weekly. • Site access points to be agreed with principal contractor. **Plant** • Only CPCS Cardholders are permitted to operate any mobile plant on site. • Daily Plant Inspect Sheet and Plant Operation H&S Checklist to be completed by operator. • Evidence of annual plant maintenance must be available. • All plant to be fitted with orange flashing lights and audible reverse signals. • Do not wear loose fitting clothing as they can catch on control levers. • Refuel plant in designated areas only. Ensure fall protection is provided if refuelling point is at height.	Driver Driver Driver Driver Driver Driver Driver Driver Driver Driver Driver Transp. Mgr. Supervisor Driver Supervisor Supervisor Operator Supervisor Supervisor Operator Operator	5	1	5

Task & Hazards	Potential Outcome	Persons at Risk	S 1	L 1	R1	Control Measures	Responsible Person	S 2	L 2	R2
Use of Construction Plant on Public Highways Moving vehicles	People & property being hit by moving vehicle.	Employee Public	5	2	10	• Road Tax, registration plates and correct insurance required if using public roads. • Operators of plant up to 7.5t must be over 18 and hold a full driving license category B. • Operators of plant over 7.5t must be over 21 and hold a full driving license category C. • Tires, brakes, lights to meet road legal standards. • Amber flashing beacon to be fitted and working. • Where fitted, seatbelts are to be worn. • Vehicle marshal to guide vehicles if crossing public pedestrian routes. • A horn is required if max vehicle speed is over 20mph. • Mirrors required if driver does not have 360o vision around the machine. Lighting, markers and reflector requirements. • Front and rear position lamps. • Dipped beam headlamp (except where max speed does not exceed 15mph) • Main beam headlamp (except where max speed does not exceed 25mph) • Direction indicator (except where max speed does not exceed 15mph) • End outline marker lamp (except where max speed does not exceed 25mph, or vehicle width is less than 2.1m) • Hazard warning signal (except where indicators are not required) • Side marker lamp (except where max speed does not exceed 25mph, or vehicle length is less than 6m) • Rear fog lamp (except where max speed does not exceed 25mph) • Stop lamp (except where max speed does not exceed 25mph) • Side retro reflector (except where max speed does not exceed 25mph) • Rear retro reflector. • Rear marking (if vehicle gross weight exceeds 7.5t)	Contr. Mgr. Contr. Mgr. Contr. Mgr Contr. Mgr. Contr. Mgr. Operator Operator Contr. Mgr. Contr. Mgr. Contr. Mgr. Contr. Mgr. Contr. Mgr. Contr. Mgr. Contr. Mgr. Contr. Mgr. Contr. Mgr. Contr. Mgr. Contr. Mgr. Contr. Mgr. Contr. Mgr. Contr. Mgr.	5	1	5
Access backs vans & trailers People & Materials at height. Slips/Trips	Employee falling from van or on van back. Materials falling onto people.	Employee Public Contractor	5	3	15	• Edge protection must be fitted before accessing the backs of vans. The vehicle will be mounted using the installed steps, ensuring that they are clear of mud and grease first. • Where edge protection is not installed no person is to climb onto the back of any van/truck, except transits. All unloading and loading is to be done from ground level. • Ensure that an area on the van/trailer bed is cleared of trip hazards. Do not stand on or climb over objects. • Ensure the area is clear of non-essential personnel & public when unloading.	Employee Employee Employee Employee	5	1	5

Task & Hazards	Potential Outcome	Persons at Risk	S 1	L 1	R1	Control Measures	Responsible Person	S 2	L 2	R2
Handling Fencing Materials Heavy, sharp, unwieldy objects. Long carrying distances.	Muscular-skeletal injuries. Cuts.	Employee	4	3	12	• Only employees trained in kinetic lifting techniques to perform manual handling operations. • Materials to be moved as close to work area as possible via mechanical means. • Manual handling aids to be used where provided. • Safety gloves and safety boots to be worn at all times (min EN388 4542). • Routes to be inspected for trip/slip hazards prior to operation. If present, hazards to be removed or alternative route taken. • Weights of materials, hazards associated with materials (e.g. sharp, bulky) to be listed in method statement along with required controls. • When stacking or unstacking metal or powder coated materials ensure non slip material is placed between products to prevent metal on metal slippage. • Beware of 'stored energy' of strapped or stacked materials with potential to fall or slip when unstrapped or unloaded. • Workforce to be rotated. • Employees to inform Manager if any injury, condition or medication could affect their manual handling ability.	Supervisor Supervisor Supervisor Employee Employee Contr. Mgr. Employee Employee Supervisor Employee	3	1	3
House keeping Slips/trips COSHH Flammable substance	Falls at ground level. Contact with COSHH substance. Fire.	Employee Public Contractor	4	3	12	• Clear up waste materials immediately. Lightweight waste to be bagged or bundled, and nails removed from waste timber. • Do not leave tools, equipment or unused materials on pedestrian routes. • If possible route cables above head height. If at floor level, avoid crossing walkways. • All COSHH and flammable substances to be locked in secure location when unattended. • All open excavations to be backfilled, fenced off or covered when unattended. • Supervisor to ensure that work area is safe and tidy at end of shift.	Employee Employee Employee Employee Employee Supervisor	4	1	4

Task & Hazards	Potential Outcome	Persons at Risk	S 1	L 1	R1	Control Measures	Responsible Person	S 2	L 2	R2
Buried Services General Electricity. Gas. High pressure water mains. Sewage. Fibre optics	Electrocution, Explosion, Fire, Public nuisance Disease	Employee Public Contractor	5	3	15	• A permit to excavate will be obtained from the Principal Contractor or GBS Manager prior to digging. If you are not issued a permit do not start digging. • Service drawings will be checked for approximate locations of services. If the Principal Contractor/Client does not issue you with drawings do not start digging. Contact your Manager who will arrange for them to be issued. • A survey will be carried out by a trained operator, using a calibrated cable locating device to determine the exact location of services. You must scan each section of the fence line when marking out the fence line and again prior to breaking ground on each post hole. You must then rescan every 300mm when digging/augering. Scanning must always be carried out in Radio, Power and Genny mode. • Service locations will be marked out on the ground using spray paint. • If additional services to those on drawings are found they are to be marked out and the Principal Contractor or your Manager asked for further information. • If the post hole falls within 500mm of a known service then the Principal Contractor is to be consulted to agree on a re-location of the post. • Where doubt remains as to the location of any suspected service then then an instruction will be requested from the Principal Contractor Site Manager to excavate trial holes. Trial holes are to be hand dug with insulated hand tools 500mm to the side of the suspected service to the depth of the post hole and then horizontally towards it. Trial holes should be dug at either end of the suspected service run and in the centre. • Suitable pedestrian barriers are to be put in place to prevent encroachment where the public or other contractors are present. If postholes are to be left unattended, they are to be either backfilled or covered with material of sufficient strength. • Concrete must not encase services when backfilling postholes. • If services, or signs of services (e.g. warning tiles, tape) are found whilst excavating, work is to be stopped and the Principal Contractor Site Manager, and GBS Contracts Manager informed. • Always replace warning tape and tiles when backfilling over services. Ensure services are supported underneath. • If damage to any service is caused, or suspected, vacate all from the area and inform the Site Manager immediately. Inform the Contracts Manager afterwards. Do not attempt to repair any damaged service.	Supervisor Supervisor Supervisor Supervisor Supervisor Supervisor Supervisor Supervisor Supervisor Supervisor Supervisor	5	1	5

Task & Hazards	Potential Outcome	Persons at Risk	S 1	L 1	R1	Control Measures	Responsible Person	S 2	L 2	R2
Use of Excavator Buried services. Open excavation Moving vehicles. Objects & people at height. Moving machinery. Hydraulic fluid. Overhead obstruction Collision hazards. Soft, weak, uneven ground conditions	Explosion. Fire. Electrocution. Public nuisance. Hydraulic fluid injection. Contact with machine. Flying objects. People & property being hit by moving vehicle or falling object. Roll over of vehicle	Employee Public Contractor	5	3	15	• Excavator only to be used if digging is more than 500mm from known services. • A Marshal is to supervise digging from a position where they can safely see into the excavation and outside the operating radius of the excavator arm. They will stop the operation if signs of buried services are seen. • If contact is made with an electrical or unknown service do not attempt to leave the cab until the excavator arm and attachment have been retracted. If this is not possible remain in the cab until the cable's power has been switched off. • Assess working area. Consider ground conditions and gradients and working space restrictions (tail swing). Ensure there is adequate clearance for the machine to slew (at least 600mm) • Ensure good all round visibility from operator's position. All mirrors (etc.) must be fitted, adjusted and maintained to provide a clear and optimum field of view. • Use a banksman / spotter / slinger when view is limited or when in congested areas. Confirm communication signals prior to starting work. • Do not allow jibs to enter into pedestrian or vehicle routes. • Vehicles are to be guided only on to firm level ground. • Keep machinery a safe distance from excavations, benches or batters. • Lock 'quick hitch' attachments before work begins and inspect frequently. Follow manufacturer's instructions for positive locking of quick hitches (lock pins) and changing attachments. • Lower / park the boom / bucket and isolate / turn off the machine before leaving the cab. • All machines with lifting eyes will have a verifiable 12 month test certificate even if not used for lifting. Copies of all LOLER certificates to be held on site. • Excavated substrate and materials (e.g. post footings) must fit inside the bucket without risk of falling out. The weight of the load must be within the limitations of the machine. • Only buckets recommended by the manufacturer can be used.	Supervisor Supervisor Operator Operator Operator Operator Operator Operator Operator Operator Operator Operator Operator	5	1	5

Task & Hazards	Potential Outcome	Persons at Risk	S 1	L 1	R1	Control Measures	Responsible Person	S 2	L 2	R2
Use of excavator for lifting. Open excavation Moving vehicles. Lifting equipment Objects at height. Moving machinery. Hydraulic fluid. Overhead obstruction Collision hazards. Soft, weak, uneven ground conditions.	Electrocution. Hydraulic fluid injection. Contact with machine. Flying objects. People & property being hit by moving vehicle or falling object. Roll over of vehicle.	Employee Public Contractor	5	4	20	• Mechanical lifting will be conducted in accordance with the lift plan provided by a trained Appointed Person (attached). • A CPCS slinger/signaler must attach all loads and supervise all operations. • The excavator is to have a 12 month LOLER certificate and the SWL of the machine must be clearly marked on the boom and/or in the operators cab. • Lifting accessories are to have a 6 month LOLER certificate. • Lifting eyes must be used for attaching accessories. • SWL acoustic warning devices must be operational. The SWL must not be exceeded. • An exclusion zone of at least 5m from the potential boom x load reach area is to be established during operations. • Assess working area. Consider ground conditions and gradients and working space restrictions (tail swing). Ensure there is adequate clearance for the machine to slew (at least 600mm). • Lifting is not to take place under overhead power lines or other obstructions. If contact with overhead electrical lines occurs do not get out of the cab. Either move the machine away, if safe to do so, or have the electrical line power switched off first. • Ensure good all round visibility from operator's position. All mirrors (etc.) must be fitted, adjusted and maintained to provide a clear and optimum field of view. • Do not allow jibs or loads to enter into pedestrian or vehicle routes. • Vehicles are to be guided only on to firm level ground. • Keep machinery a safe distance from excavations, benches or batters. • Lock 'quick hitch' attachments before work begins and inspect frequently. Follow manufacturer's instructions for positive locking of quick hitches (lock pins) and changing attachments. • Lower / park the boom / bucket and isolate / turn off the machine before leaving the cab.	Supervisor Supervisor Operator Operator Slinger Operator Signaller Operator Operator Operator Operator Operator Operator Operator	5	1	5
Use of Dumper Moving vehicles. Uneven terrain. Open drops. Person at height. Collision hazards.	People & property being hit by moving vehicle. Roll over of vehicle. Person falling from vehicle.	Employee Public Contractor	5	3	15	• Roll bars (or alternative approved ROPS) to be fitted and used, seatbelts to be worn. • Dumper trucks are not to be overloaded in excess of manufacturer's recommendations. Loads must be checked for security before carriage. Load skip evenly within working weight limit with no projecting materials. • Dumpers are only to be tipped or loaded on firm level ground. • Driver to dismount vehicle, put the dumper in neutral gear, engage the handbrake, dismount the machine when and stand clear when being loaded.	Operator Operator Operator Operator	5	1	5

Task & Hazards	Potential Outcome	Persons at Risk	S 1	L 1	R1	Control Measures	Responsible Person	S 2	L 2	R2
Use of Telehandler Moving vehicles. Lifting equipment Objects at height. Moving machinery. Overhead obstruction Collision hazards. Soft, weak, uneven, ground. Open excavation	Electrocution. Hydraulic fluid injection. Contact with machine. Flying objects. People & property being hit by moving vehicle or falling object. Roll over of vehicle.	Employee Public Contractor	5	3	15	• The telehandler is to have a 12 month LOLER certificate and the SWL of the machine must be clearly marked in the operators cab. • Any fork extensions are to have a 6 month LOLER certificate. • SWL acoustic warning devices must be operational. The SWL must not be exceeded. • Always carry loads close to the ground with the telescopic boom fully retracted. • Booms and loads are not to be lifted above any person or extend into site traffic routes. • Do not position the load on the end of the fork tines. Keep load as close as possible to the attachment carriage. • Lifting is not to take place under overhead power lines or other obstructions. If contact with overhead electrical lines occurs do not get out of the cab. Either move the machine away, if safe to do so, or have the electrical line power switched off first. • Only use buckets/attachments approved for the specific model of Telehandler. • When parking the forklift lower the forks, engage the hand brake and remove the keys.	Operator Operator Operator Operator Operator Operator Operator Operator Operator	5	1	5
Refuelling plant & machinery Flammable substance. Environmental hazard.	Fire Damage to environment Slip risk when frozen.	Employee Public Contractor	5	2	10	• Machines are to be filled in areas that are isolated from sources of ignition. • Small plant is to be refuelled over drip trays. A spill kit and foam or powder fire extinguisher is to be located nearby. • A funnel is to be used when filling. • After filling, the fuel filler cap is to be secured and all spillage's are to be wiped up. • Small machinery is to be moved away from the area of filling prior to starting. • Fall prevention controls are to be in place if plant has to be accessed at height. • Ensure machine has cooled before refuelling.	Operator Operator Operator Operator Operator Operator Operator	5	1	5

Task & Hazards	Potential Outcome	Persons at Risk	S 1	L 1	R1	Control Measures	Responsible Person	S 2	L 2	R2
Use of MEWP People and materials at height. Moving vehicle. Overhead obstruction Electricity Soft, weak, uneven, ground. Open excavation	Roll over. Fall of person. Being hit by falling material. Hit by moving vehicle. Entrapment Electrocution	Employee Public Contractor	5	3	15	• MEWP operator to have IPAF or CPCS qualification. • MEWP must be fitted with an anti-entrapment device. • Harnesses with lanyard connected to dedicated anchor point to be worn in MEWP at all times. Harnesses not required in scissor lifts. • MEWP and harnesses to have 6 monthly LOLER certificate. • Only to be used within parameters of manufacturers' instructions. • The SWL is to be clearly marked on the machine. The load is not to be exceeded. • MEWP not to be used beneath overhead power lines. • Where public, other contractors and vehicles have access an exclusion zone of at least 5m is to be created around the MEWP using temporary barrier. • Platform to be lowered when moving the MEWP. • Position platform so over-reaching is not necessary. Feet are to remain on the platform cage base. • One person on the ground must be trained in how to lower the MEWP in an emergency. • Where fitted outriggers must be fully extended. On soft ground suitable base pads are to be used to spread the load. • Where fitted always check the levelling device on the chassis to ensure the platform will rise vertically. • Do not operate where wind strength is above that specified in the manufacturer's handbook. • Ensure toe-board protection is in place. Do not drop tools or materials from the platform.	Supervisor Operator Operator Supervisor Operator Operator Operator Supervisor Operator Operator Supervisor Operator Operator Operator Operator	5	1	5
Use of Scaffold Tower People and materials at height. Moving vehicles Overhead obstruction Electricity Soft, weak, uneven, ground.	Failure of scaffold Fall of person. Being hit by falling material. Hit by moving vehicle. Electrocution	Employee Public Contractor	5	3	15	• Only PASMA trained personnel to erect scaffold tower. • Scaffold tower to be placed on level ground with all legs and toe boards fitted • Only to be used within parameters and configurations of manufacturers' instructions. • Only use on flat, level ground. On soft ground suitable base pads are to be used to spread the load. • Where public, other contractors and vehicles have access an exclusion zone of at least 5m is to be created around the tower using temporary barrier. • Weekly inspection by PASMA qualified person of tower and scaf-tags to be used. • To be inspected by PASMA qualified person when moved, altered or if damage is suspected. • Do not use tower scaffolds underneath overhead power lines. • Access and leave the platform using the designated ladder. • Do not use the tower in high wind. • Ensure toe-board protection is in place. Do not drop tools or materials from the platform. • Position platform so over-reaching is not necessary. Feet are to remain on the platform cage base.	Supervisor PASMA op. PASMA op. PASMA op. Supervisor PASMA op. PASMA op. Supervisor Employee Employee Employee Employee	5	1	5

Task & Hazards	Potential Outcome	Persons at Risk	S 1	L 1	R1	Control Measures	Responsible Person	S 2	L 2	R2
Use of Ladders People and materials at height. Moving vehicles Overhead obstruction Electricity Soft, weak, uneven, ground	Slip of ladder Fall of person. Being hit by falling material. Hit by moving vehicle. Electrocution	Employee Public Contractor	5	4	20	• Ladders will only be used where ground conditions do not allow scaffold towers or MEWPs. • Where site rules specify, a ladder permit must be obtained for the Site Manager. • Either the ladders' stabiliser legs will be engaged at all times, or the ladder will be tied off at the top, or as a last resort ladder it will be footed at all times. • A safety harness will be worn and tied off with a looped lanyard around the post or through the mesh. • No person will be left to work alone from ladders. • Where public, other contractors and vehicles have access, an exclusion zone of at least 2m is to be created around the ladder using temporary barrier.	Supervisor Supervisor Employee Employee Supervisor Supervisor	5	1	5
Use of Podium steps People and materials at height. Moving vehicles Overhead obstruction Electricity Soft, weak, uneven, ground	Failure of podium steps. Fall of person. Being hit by falling material. Hit by moving vehicle. Electrocution	Employee Public Contractor	5	2	10	• Podium steps to be placed on level ground with all legs and toe boards fitted. • Only to be used within parameters and configurations of manufacturers' instructions. • Inspect podium for damage before each shift. • Position platform so over-reaching is not necessary. Feet are to remain on the platform cage base. • Where vehicles and plant have access, an exclusion zone of at least 2m is to be created around the podium using temporary barrier. • Ensure adequate clearance from overhead cables.	Employee Employee Employee Employee Employee Employee	5	1	5
Use of Hop ups People and materials at height. Moving vehicles Soft, weak, uneven, ground	Failure of hop up. Fall of person. Hit by moving vehicle.	Employee Public Contractor	4	2	8	• Hop-ups must be 600mm x 600mm. • Hop-ups must be inspected for damage prior to use – do not use if damaged. • The legs are to be fully locked back into the operating position. • The Hop up must be used on a level surface. • The legs must be placed on a firm surface sufficient to support the user.	Supervisor Employee Employee Employee Employee	4	1	4

Task & Hazards	Potential Outcome	Persons at Risk	S 1	L 1	R1	Control Measures	Responsible Person	S 2	L 2	R2
Safety Harness People and materials at height.	Fall of person.	Employee	5	3	15	• Harnesses, lanyards & karabiners must have in date 6 monthly LOLER certificates. • Only trained and authorised employees may use harnesses. The training must include pre- use checks, fitting and wearing, use of karabiners, lanyards, anchor points and safety attachments. • Harnesses must be thoroughly examined by the user prior to use and to include the following inspection checks: • Security of stitches. • Cuts in webbing and pads. • Chafing of webbing. • Damage to webbing by wear and tear. • Stretching or narrowing of webbing. • Corrosion or distortion of metal fixings, buckles, karabiners and anchor points. • Dirt and other substances. • Karabiners and buckles are to be thoroughly checked twice for locking and positive connections before work starts. • If damage is found the harness is not to be used and reported immediately to the Contracts Manager. • The harness is to be fitted so that it fits snugly to the body and that all straps and fittings are securely fastened.	• Supervisor • Supervisor • Employee • Employee • Employee • Employee	5	1	5
Off-site mixed cement – poured on site COSHH Moving Vehicle	Skin irritation Serious damage to eyes Skin sensitization. Skin burns Hit By Moving Vehicle	Employee Public Contractor	4	3	12	• Cement is to be mixed off site. • Non-essential personnel are to be excluded from pouring areas. • Controls for vehicle & Plant Movements apply • EN374 safety gloves to be worn if handling wet cement. • EN166 F Safety specs to be worn at all times. • Contaminated clothing to be removed and changed. • Forearm length washing bowls to be provided in welfare facilities. • Employees to wash cement from skin immediately after contact.	N/A Supervisor Supervisor Employee Employee Employee Princ. Contr Employee	4	1	4

Task & Hazards	Potential Outcome	Persons at Risk	S 1	L 1	R1	Control Measures	Responsible Person	S 2	L 2	R2
Use of Hand Tools Sharp objects. Electricity. Sparks	Cuts Electrocution Fire	Employee Public Contractor	4	3	12	• Open bladed knives are not to be used. Only safety knives with concealed blades may be used. • Check all tools, including handles, to ensure that they are fit for the purpose and are in good condition. • Monitor all hand tools that can deteriorate with use and sharpen or replace as necessary. • Safety specs (EN166F) and safety gloves EN388 (min 4542) are to be worn. Safety goggles (EN166 B.3.4) are to be worn where there is a risk of flying objects (e.g. chisels, hammers). • Insulated tools must be used where there is a possibility of contact with electricity. • Non-ferrous (spark-free) tools are to be used in flammable atmospheres. • Screwdrivers and other sharp tools are to be carried and used so as not to cause injury to the user or others. Retract or cover all sharp tool edges when not in use. • Do not leave tools unattended when not in use.	Employee Employee Employee Employee Employee Employee Employee Employee	4	1	4

Task & Hazards	Potential Outcome	Persons at Risk	S 1	L 1	R1	Control Measures	Responsible Person	S 2	L 2	R2
Automated Gates Electricity Moving parts (other risk covered elsewhere in risk assessment)	Electrocution Hit or trapped by moving parts	Employee Public Contractor	5	3	15	• Installation to be carried out by internally qualified an authorised person. • All low & extra low cables, ducts and other forms of protection/segregation will be in compliance with the latest electrical standards. • All installation works will be carried out in accordance with the current electrical installation regulations. • All installation works will be carried out by a competent member of the installation team. • The incoming supply will be provided by others at an agreed location. • Electrical testing and certification is to be carried out by others. • Where applicable the electrical installation will need to be tested and certified by part “P” qualified person. • Safety features of gate to be inspected prior to handover. • CE marking to be displayed on gates. • Fingerless electricians gloves (EN4542) may be worn for wiring tasks only	Contr. Mgr Contr. Mgr Contr. Mgr Supervisor Princ. Contr. Princ. Contr. Contr. Mgr. Supervisor Supervisor Employee	5	1	5
COSHH See attached COSHH assessment	See attached COSHH assessment	Employee Public Contractor	3	3	9	• All substances to be entered onto Company COSHH register. • COSHH assessments prepared for all substances used. • All COSHH assessments to be communicated to relevant staff. • Controls in COSHH assessments to be followed. • Spill kit in work area. Clear spillages as soon as possible. • Flammable substances to be stored in fire proof container away from sources of ignition.	Contr. Mgr. Contr. Mgr. Supervisor Employee Supervisor Supervisor	3	1	3
Working in rat infested areas. Rat urine & faeces.	Leptospirosis / Weil’s	Employee	4	2	8	• Cover all cuts with water proof plasters. • See doctor if suffering from flu-like symptoms. • No eating, drinking or smoking except in authorised areas. • Wash hands before eating, drinking or smoking	Employee Employee Employee Employee	3	1	3

Task & Hazards	Potential Outcome	Persons at Risk	S 1	L 1	R1	Control Measures	Responsible Person	S 2	L 2	R2
Traffic Management by Others Moving Vehicle	Hit by moving vehicle	Employee	5	3	15	• All Traffic Management Systems set up by others. • The supervisor is to brief the team on the traffic management arrangements. • The team is to assemble in the main compound with all equipment necessary for work during that period and access the work area through the Works Access points set up by the Traffic Management Contractor. • All egress from site through designated exit point • All site personnel are to remain within the designated work area. • The traffic management barriers and cones are not to be altered by LWF site operatives under any circumstances. • Working near live traffic; ensure that all operatives and plant are outside a 1.2m exclusion zone behind cones and safety life line rope or 600mm away from Varioguard. • Any concerns with TM should be reported immediately to the TSCO. • As a minimum All employees working in the area are to wear Safety Helmet (EN50365:2002), Safety specs (EN116 F), steel toe capped boots, lace up only (EN ISO 20345 S3) and safety gloves (min EN388 4542), long sleeve high visibility vests or jackets and high visibility trousers (EN471 2,2).	Princ. Contr. Supervisor Employee Employee Employee Employee Supervisor Employee Supervisor	5	1	5
Install Heras Fencing Heavy, awkward object. Hand tools	Cuts Muscular - skeletal injury	Employee Public Contractor	4	3	12	• The fencing will be installed on firm and flat ground to ensure stability. • The footings will be laid out at right angles to the fencing line unless any other provisions are made. Do not place footing running in line with the panels. • Fabric should never be placed or fixed to the fence without provisions being made to support it and counteract any “sail effect”. • All panels are to be double clipped together; the upper clip being fixed a minimum of 200mm down from the top rail. • In exposed conditions or where screening materials are fixed to the fence, backstays/bracing struts are to be fitted at minimum intervals of l every 4 panels. • Where vehicle gated access is required the panels used as gates are to be fitted with wheels to enable easy movement and stability. • Where the fence is to be used to control public access and pedestrian walkways, backstays / bracing struts are to be fitted at minimum intervals of 1 every 4 panels. • The footings are to be placed in such a way so as to ensure they do not encroach into the walking area presenting a trip hazard to pedestrians. • Two men are to carry footings and fence panels.	Supervisor Employee Supervisor Supervisor Supervisor Supervisor Supervisor Supervisor Supervisor	4	1	4

Task & Hazards	Potential Outcome	Persons at Risk	S 1	L 1	R1	Control Measures	Responsible Person	S 2	L 2	R2
Work near Overhead HV Power lines. Electricity, Impressed Voltage & Arcing.	Electric Shock, Arc-flash burns, Arc-flash blasts, Intense light (eye damage), Soundwaves (Hearing damage), Projectiles - molten metal, vapors & shrapnel.	Employee Public Contractor	5	3	15	• Ensure that the voltage of the overhead lines are known. Contact the Owner of the HV lines (UK Power Networks, National Grid, local electricity company) for clarification about how the work should be done. • Always assume overhead powerlines are live unless informed otherwise. • Unless alternative instruction is given by the Owner no work is to take place within 9m of overhead powerlines on wood, concrete or steel poles and 15m if lines are on steel towers. These distances are measured horizontally at ground level from directly below the outermost conduction. • Ground levels must not be altered or regraded (including tipping spoil) so that minimum clearances are reduced. These are: - 400 kV, 7.3m - 275 kV, 7.0m - 132 kV, 6.7m - 33 to 66 kV, 6.0m - 11 to 33 kV, 5.2m • Where possible do not travel or work under HV services if alternatives are available. • Never deviate form designated traffic routes and always ensure plant, materials and working platforms can safely pass under goalposts. If in doubt seek clarification from the Client or Principal Contractor.	Contract Mgr Employee Supervisor Supervisor Employee Employee	5	1	5
Work Adjacent to Live Road Moving vehicles	Hit by moving vehicle	Employee	5	3	15	• T.M to be installed by Principal Contractor to protect the workforce • Safety zones are to be maintained. • Long sleeved tops and trousers, Class 3 Hi – Vis clothing to be worn. • All vehicles on the live carriageway must have flashing beacons and chapter 8 chevrons. • All works, where at all possible, must avoid the use of the live carriageway. • Access points and safe routes must be briefed via RAMs and Task briefings before entering site. • If an RTA or breakdown occurs within traffic management the emergency services to be called where necessary. First aiders to attend. All such incidents to be reported to site and recorded in the order of severity e.g Accident , Near Miss , Close Call . Site team to assist with recovery where it's safe to do so. • Emergency services will be responsible for all such incidents on the live carriageway, site team to assist if requested. • All vehicle movements around sites are subject to a 5 - 15mph speed limit, and should take account of footpaths and access routes. • Wheels should be checked for excess mud before driving on the public highway.	Princ. Contr. Princ. Contr. Supervisor Supervisor Supervisor Supervisor Employees Employees Employees Employees	5	1	5

Task & Hazards	Potential Outcome	Persons at Risk	S 1	L 1	R1	Control Measures	Responsible Person	S 2	L 2	R2
Attaching an attachment to a hydraulic Quick Hitch	Contact with moving parts,crushing hazrad, manual handling Contact with COSHH substance	Employee Public Contractor	5	3	15	• Ensure the attachment has been mecahnicly placed in the location you want to attach it to avoide manual handling. • Ensure you are working on flat even ground before attaching the attachment. • An exclusion zone of at least 5m from the potential boom reach area is to be established during operations. • Operators should be instructed not to use the machine unless they are satisfied that the quick hitch is secured in place. If the operator cannot see from the cab of the vehicle due to poor weather then s/he must visually check from the ground • Never let anyone work under a bucket or attachment. • The manufacturers manual for operating the hitch must be in the cab & followed. • Safety goggles (EN116 B), steel toe capped boots and gloves (min EN388 4542), long sleeves and trousers will be worn. • Lock 'quick hitch' attachments before work begins and inspect frequently. Follow manufacturer's instructions for positive locking of quick hitches (lock pins) and changing attachments.	Operator Operator Operator Operator Operator Operator Operator Operator	5	1	10

Jacobs Bond Pascoe – Wrexham -GBS3668 Date:12.09.25

APPENDIX B – Material Specification

APPENDIX C - COSHH

COSHH Risk Assessment

Describe the activity or work process. *(Inc. how long/ how often this is carried out and quantity substance used)*	Ready mix cement received on site by QA Supplier Pouring into post holes.
Location of process being carried out?	Morgan Sindall Infrastructure - Bedlington Station Project

Identify the persons at risk:	Employees	☑	Sub-contractors	☐	Public ☑
Name the substance involved in the process and its manufacturer. *(Material safety data sheet is attached)*	Cement				

Classification *(state the category of danger)*


Explosive ☐


Extremely Flammable ☐


Highly Flammable ☐


Flammable ☐


Oxidising ☐


Gas Under Pressure ☐


Corrosive ☑


Acute Toxicity ☐


Harmful ☐


Irritant ☑


Skin Sensitisation ☑


Respiratory Sensitisation ☑


Carcinogen or Mutagen ☐


Dangerous To Environment ☐

Hazard Type

☐ Gas ☐ Vapour ☐ Mist ☐ Fume ☑ Dust ☑ Liquid ☐ Solid ☐ Other (State)

Note: This product comes as a dust when in raw form, under the mixing process it becomes a malleable liquid

Route of Exposure

☑ Inhalation ☑ Skin ☑ Eyes ☑ Ingestion ☐ Other (State)

Workplace Exposure Limits (WELs) *please indicate n/a where not applicable*

Long-term exposure level (8hrTWA):	Short-term exposure level (15 mins):
Portland Cement Inhalable dust 10mg/m3 TWA 8hrs Respirable dust 4mg/m3 TWA 8hrs	

State the Risks to Health from Identified Hazards

EC Classification: No 1272/2008 (CLP)
H318 Causes serious eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H372 Causes damage to organs through prolonged or repeated exposure

Control Measures:

General protective and hygienic measures

- Do not eat drink or smoke during work to avoid cement dust and wet cement coming into contact with skin or mouth.
- Immediately after working with cement or cement containing materials, workers should wash or shower with pH neutral soap and water.

Protection of hands and skin:

- Protective gloves EN 374. Avoid direct contact with the chemical/ the product/ the preparation.
- Particular care should be taken to ensure that wet concrete does not enter the boots, gloves or clothing and

persons do not kneel on the wet concrete so as to bring the wet concrete into contact with unprotected skin.
- Should wet cement contact the skin then the affected protective clothing should be immediately removed and the skin
- thoroughly washed as well as the protective clothing/footwear.
- **Eye protection:**
- Tightly sealed safety glasses or goggles to protect against dust and liquid splashes (EN166 A or B with suffix 3.4

Body protection:
- Protective work clothing (water proof clothing if skin contact highly likely)

Respiratory Protection:
- Employees must wear (EN149:2001 FFP3) half face masks when pouring and handling dry cement. All operatives must be clean shaven and Face Fitted to ensure protection is provided.

Fire Fighting:
- Cements are not flammable and will not facilitate combustion with other materials.

Is health surveillance or monitoring required? **Annual health questionnaire**. Yes ☑ No ☐

Personal Protective Equipment *(state type and standard)*

 ☑ Dust mask	EN149:2001 FFP3	 ☐ Visor		 ☑ Gloves	EN 374-3 Resistance to chemical hazards	 ☐ Overalls	
 ☐ Respirator		 ☑ Goggles	EN166 A or B with suffix 3.4.	 ☑ Footwear	EN 20345	 ☐ Other	

First Aid Measures

Eye contact:
- Do not rub eyes, remove any contact lenses. Wash eyes immediately with plenty of clean water for at least 15 minutes and seek medical advice without delay.

Skin contact:
- Wash the affected area thoroughly with soap and water before continuing. If irritation, pain or other skin conditions occur, seek medical advice. Clothing contaminated by wet cement should be removed and washed thoroughly before use.

Ingestion:
- Do not induce vomiting. Wash out mouth with water and give patient plenty of water to drink. Seek medical attention.

Inhalation:
- If irritation occurs, move to fresh air. If nose or airways become inflamed seek medical advice.

Storage

Storage:
- Packed Cement must be stored in a safe and stable manner, in unopened bags, clear of the ground, in cool dry conditions and protected from excessive draught.
- Store away from foodstuffs.
- Opened bags must be covered with waterproof material.

Disposal of Substances & Contaminated Containers

Hazardous Waste ☐ Skip ☑ Return to Yard ☐ Return to Supplier ☐ Other ☐

(If Other Please State):
Notes:

Is exposure adequately controlled?	**Yes** ☑	No ☐

Risk Rating Following Control Measures

High Medium **Low** ✓

Assessed by: Mark Whittle Date: 01.05.24 Review Date: May 2025

COSHH		**GBS16 (20/03/2019)** **COSHH Risk Assessment**

Name the substance involved in the process and its manufacturer. *(Material safety data sheet is attached)*	**Diesel** Provided by various manufacturers
Describe the activity or work process. *(Inc. how long/ how often this is carried out and quantity substance used)*	Refuelling of vehicle, plant and equipment
Location of process being carried out?	Morgan Sindall Infrastructure - Bedlington Station

Identify the persons at risk:	Employees	☑	Sub-contractors	☐	Public	☐	

Classification *(state the category of danger)*

	☐		☐		☐		☑		☐		☐		☐
Explosive		Extremely Flammable		Highly Flammable		Flammable		Oxidising		Gas Under Pressure		Corrosive	
	☑		☑		☑		☐		☑		☑		☑
Acute Toxicity		Harmful		Irritant		Skin Sensitisation		Respiratory Sensitisation		Carcinogen or Mutagen		Dangerous To Environment	

Hazard Type

☐	☑	☑	☐	☐	☑	☐	☐
Gas	Vapour	Mist	Fume	Dust	Liquid	Solid	Other (State)

Route of Exposure

☑	☑	☑	☑	☐	
Inhalation	Skin	Eyes	Ingestion	Other	(State)

Workplace Exposure Limits (WELs) *please indicate n/a where not applicable*

Long-term exposure level (8hrTWA): 10 ppm (respiratory) Long-term exposure level (8hrTWA): 100 mg/m3 (skin)	Short-term exposure level (10 mins): 15 ppm (respiratory)

State the Risks to Health from Identified Hazards

H226 – Flammable liquids – Category 3
H304 – Aspiration hazard – Category 1
H315 – Skin corrosion/irritation – Category 2
H332 – Acute toxicity, Inhalation – Category 4
H350 – Carcinogenicity – Category 1B
H373 – Specific target organ toxicity (repeated exposure) – Category 2
H411 – Hazardous to the aquatic environment, chronic toxicity – Category 2

Control Measures:

General protective and hygienic measures
Use in external areas only.
Keep out of reach of children.
Store away from all sources of heat, ignition and open flame.
Protection of hands:
Protective gloves
EN 374 / EN 388
Avoid direct contact with the chemical/ the product/ the preparation.

Eye protection:
Tightly sealed safety glasses. (EN 166)
Body protection:
Long sleeves, trousers
Suitable extinguishing agents:
Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Is health surveillance or monitoring required?	Yes ☐	No ☑

Personal Protective Equipment *(state type and standard)*

 Dust mask ☐		 Visor ☐		 Gloves ☑	EN 374/388 Nitrile/rubber/ NBR	 Overalls ☐	
 Respirator ☐		 Goggles ☑	EN166 3.4.	 Footwear ☑	EN 20345	 Other ☐	

First Aid Measures

General information
Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment. When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the casualty should be sent immediately to a hospital. Do not wait for symptoms to develop.
Inhalation:
Take affected persons into the open air and position comfortably
Skin:
Instantly wash with water and soap and rinse thoroughly. If skin irritation persists, call a doctor.
Eyes:
Rinse thoroughly with plenty of water for at least 15 minutes and consult a doctor.
Ingestion:
Rinse out mouth and then drink plenty of water. Seek medical treatment.

Storage

Storage:
Keep ignition sources away - Do not smoke.
Keep in a cool, dry and dark place; 5 °C to 25 °C. Protect from heat and direct sunlight.
Store away from foodstuffs.

Disposal of Substances & Contaminated Containers

Hazardous Waste ☑ Skip ☐ Return to Yard ☐ Return to Supplier ☐ Other ☐

(If Other Please State):

Is exposure adequately controlled?	**Yes** ☑	No ☐

Risk Rating Following Control Measures

High ☐ Medium ☐ **Low** ☑

Assessed by: Steve Whittle Date: 01.05.24 Review Date: May 2025

GBS17 (20/03/2019)
COSHH Risk Assessment

Name the substance involved in the process and its manufacturer. *(Material safety data sheet is attached)*	**Unleaded Petrol** Manufacturer / Supplier: Various
Describe the activity or work process.	Fuel for small machinery
Location of process being carried out?	Morgan Sindall Infrastructure

Identify the persons at risk:	Employees	Sub-contractors	Public
	☑	☑	☑

Classification *(state the category of danger)*

Explosive	Extremely Flammable	Highly Flammable	Flammable	Oxidising	Gas Under Pressure	Corrosive
☐	☑	☐	☐	☐	☐	☐

Acute Toxicity	Harmful	Irritant	Skin Sensitisation	Respiratory Sensitisation	Carcinogen or Mutagen	Dangerous To Environment
☑	☑	☑	☐	☐	☑	☑

Hazard Type

Gas	Vapour	Mist	Fume	Dust	Liquid	Solid	Other (State)
☐	☑	☑	☑	☐	☑	☐	☐

Route of Exposure

Inhalation	Skin	Eyes	Ingestion	Other (State)
☑	☑	☑	☑	☐

Workplace Exposure Limits (WELs) *please indicate n/a where not applicable*

Long-term exposure level (8hrTWA):				Short-term exposure level		
Benzene	TWA	3.25 mg/m3				
Toluene	TWA	191 mg/m3	50 ppm (skin)	384 mg/m3	100 ppm	(skin)

State the Risks to Health from Identified Hazards

EC Classification:
H224: Extremely flammable liquid and vapor.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.
H336: May cause drowsiness or dizziness.
H340: May cause genetic defects.
H350: May cause cancer.
H361: Suspected of damaging the unborn child.
H411: Toxic to aquatic life with long lasting effects.

Control Measures:

General protective and hygienic measures

- Use in external well ventilated areas only.
- Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.
- Ensure that eyewash stations and safety showers are close to the workstation location.

Protection of hands:

- Protective gloves: EN 374 / EN 388
- Avoid direct contact with the chemical/ the product/ the preparation.
- **Not suitable are gloves made of the following materials:**
- Natural rubber, NR, Leather gloves, Strong gloves

Eye protection:

- Tightly sealed safety glasses. (EN 166)

Body protection:

- Long sleeves and trousers to reduce skin contact.

Suitable extinguishing agents:

- Extremely flammable. Forms extremely flammable vapour – air mixture.
- Use carbon dioxide, dry chemical or foam. **DO NOT USE WATER.**

Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Move containers from fire area if this can be done without risk. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. This material is toxic to aquatic organisms. Use water spray to keep fire-exposed containers cool

Protection of fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Is health surveillance or monitoring required? Yes ☐ No ☑

Personal Protective Equipment *(state type and standard)*

Dust mask	☐		Visor	☐		Gloves ☑	EN 374/388 Nitrile/rubber/ NBR	Overalls ☐	
Respirator	☐		Goggles	☑	EN166 3.4.	Footwear ☑	EN 20345	Other ☐	

First Aid Measures

General information

- Instantly remove any clothing soiled by the product.

Inhalation:

- Get medical attention immediately. If inhaled, remove to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Skin:

- In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Drench contaminated clothing with water before removing. This is necessary to avoid the risk of sparks from static electricity that could ignite contaminated clothing. Contaminated clothing is a fire hazard. Contaminated leather, particularly footwear, must be discarded. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention.

Eyes:

- In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Ingestion:

- Get medical attention immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Aspiration hazard if swallowed. Can enter lungs and cause damage.

Storage

Storage:

Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Store and use only in equipment/containers designed for use with this product. Do not remove warning labels from containers. Store away from foodstuffs.

Disposal of Substances & Contaminated Containers

Hazardous Waste ☑ Skip ☐ Return to Yard ☐ Return to Supplier ☐ Other ☐

(If Other Please State):

Is exposure adequately controlled? **Yes** ☑ No ☐

Risk Rating Following Control Measures

High ☐ Medium ☐ **Low** ☑

Assessed by: James Ramsden Date: 01.05.24 Review Date: May 2025

COSHH		**LW16 (20/03/2019) COSHH Risk Assessment**

Describe the activity or work process. *(Inc. how long/ how often this is carried out and quantity substance used)*	Spray paint to mark out buried services on the ground and fence lines.
Location of process being carried out?	Morgan Sindall Infrastructure - Bedlington Station

Identify the persons at risk:	Employees	☑	Sub-contractors	☐	Public ☑
Name the substance involved in the process and its manufacturer. *(Material safety data sheet is attached)*	Acrylic line marker				

Classification *(state the category of danger)*

	☐		☐		☑		☐		☐		☐		☐
Explosive		Extremely Flammable		Highly Flammable		Flammable		Oxidising		Gas Under Pressure		Corrosive	
	☐		☐		☑		☐		☐		☐		☑
Acute Toxicity		Harmful		Irritant		Skin Sensitisation		Respiratory Sensitisation		Carcinogen or Mutagen		Dangerous To Environment	

Hazard Type

☑	☐	☐	☐	☐	☐	☐	☐
Gas	Vapour	Mist	Fume	Dust	Liquid	Solid	Other (State)

Route of Exposure

☑	☑	☑	☑	☐
Inhalation	Skin	Eyes	Ingestion	Other (State)

Workplace Exposure Limits (WELs) *please indicate n/a where not applicable*

Long-term exposure level (8hrTWA):	**Short-term exposure level (15 mins):**
ACETONE 500 ppm / 1210 mg/m3	ACETONE 3620 mg/m3
AROMATIC HYDROCARBON 600 mg/m3	AROMATIC HYDROCARBON N/A
BUTANE 600 ppm	BUTANE 750 ppm
BUTYL ACETATE –norm 150 ppm / 724 mg/m3	BUTYL ACETATE –norm 200 ppm / 966 mg/m3
ISOBUTANE 800 ppm	ISOBUTANE N/A

State the Risks to Health from Identified Hazards

EC Classification:
R10 Flammable.
R11 Highly flammable.
R12 Extremely flammable.
R36 Irritating to eyes.
R37 Irritating to respiratory system.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.
Hazard Statements In Full
EUH066 Repeated exposure may cause skin dryness or cracking.
H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Control Measures:

General protective and hygienic measures

Provide adequate ventilation. Will be used in external areas only. Revise assessment if used internally.
Due to the packaging form, aerosol, risk of skin contact is small. For prolonged or repeated skin contact use suitable protective gloves (EN374).
Use eye protection. Wear approved chemical safety goggles where eye exposure is reasonably probable (EN166 3.4.).
Wash hands after handling. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Use appropriate hand lotion to prevent defatting and cracking of skin.
When using do not smoke.
Avoid: Heat, sparks, flames.
Avoid exposing aerosol containers to high temperatures or direct sunlight.
Deliberately inhaling the contents of this container is dangerous and can be fatal.
In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea, If you suffer any of these symptoms stop using the product and move to fresh air. If symptoms persist seek medical advice.
Extinguish with foam, carbon dioxide, dry powder or water fog.
Water spray should be used to cool containers. Use water to keep fire exposed containers cool and disperse vapours.
Warn firefighters that aerosols are involved.
Do not allow to enter drains, sewers or watercourses. Contain spillages with sand, earth or any suitable adsorbent material.

Is health surveillance or monitoring required? Yes ☐ No ☑

Personal Protective Equipment *(state type and standard)*

☐ Dust mask		☐ Visor		☑ Gloves	EN 374/388 Polyvinyl alcohol	☐ Overalls	
☐ Respirator		☑ Goggles	EN166 3.4.	☑ Footwear		☐ Other	

First Aid Measures

Inhalation: In case of inhalation of spray mist: Move person into fresh air and keep at rest. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.
Ingestion: Immediately rinse mouth and provide fresh air. Do not induce vomiting. Get medical attention.
Skin contact: Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above.
Eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Continue to rinse for at least 15 minutes and get medical attention.

If in doubt, GET MEDICAL ATTENTION PROMPTLY!

Storage

Storage:
Extremely flammable. Keep away from heat, sparks and open flame. Store at moderate temperatures in dry, well ventilated area. Pressurized container: protect from sunlight
and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Disposal of Substances & Contaminated Containers

Hazardous Waste ☑ Skip ☐ Return to Yard ☑ Return to Supplier ☐ Other ☐

(If Other Please State):
Notes: Full or partially empty containers to be disposed of as hazardous waste. If hazardous waste facilities are not available on site then return to the yard and use company hazardous waste facilities.

Is exposure adequately controlled? **Yes** ☑ No ☐

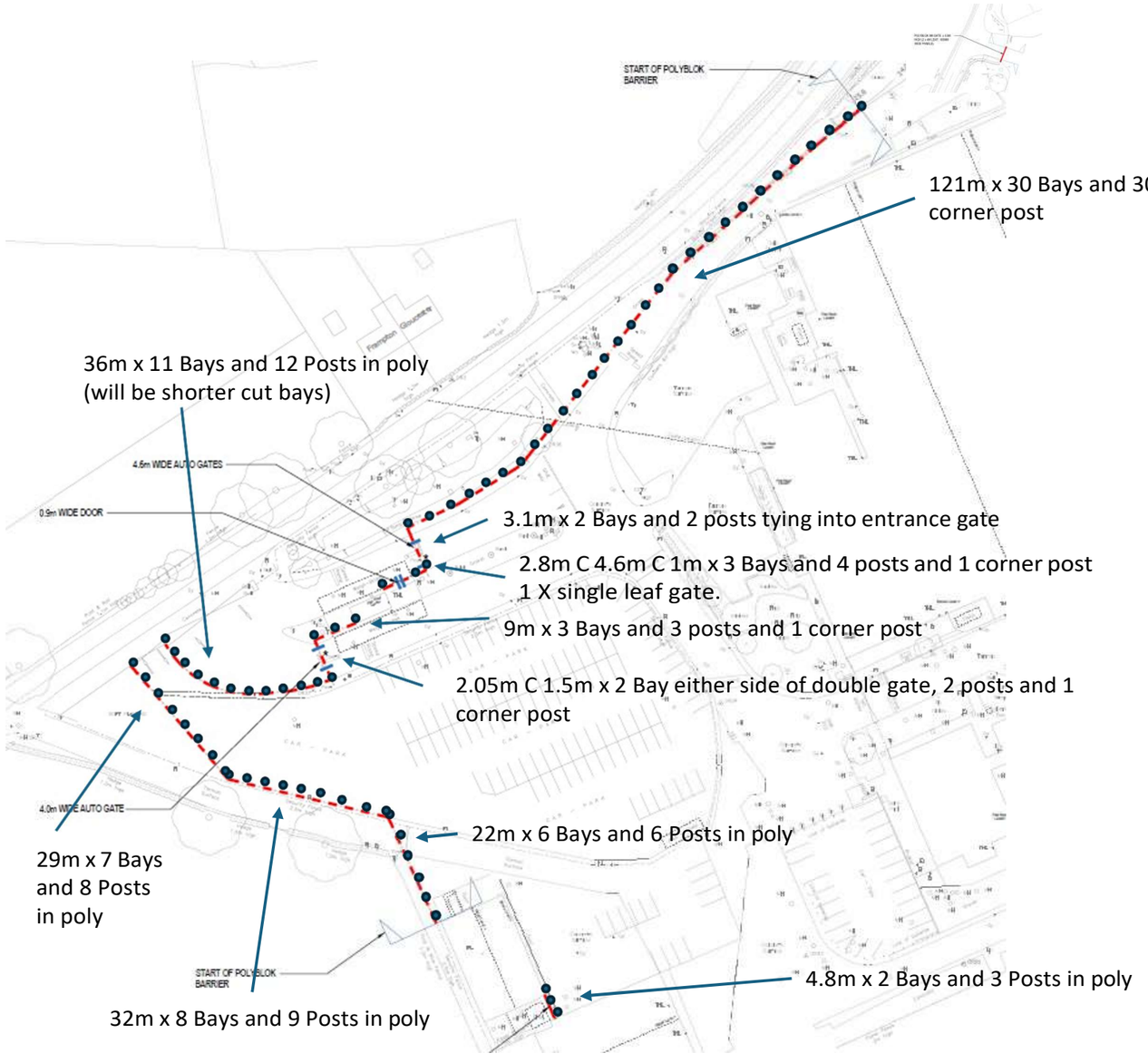
Risk Rating Following Control Measures

High ☐ Medium ☐ **Low** ☑

Assessed by: Mark Whittle Date: 01.05.24 Review Date: May 2025

APPENDIX D – Training Matrix + Operatives CSCS + CPCS Numbers

APPENDIX E – Drawings



LIN M	Bays	Posts Std	Posts Corner	B Panel 6018	T Panel 601G	G Board
4.8m	2	3		10	6	2
22m	6	6		30	18	6
32m	8	9		40	24	8
29m	7	8		35	21	7
36m	11	12		55	33	11
3.55m 2.05C1.5	2	2	1	10	6	2
9m	3	3	1	15	9	3
8.4m 2.8,4.6,1	3	4	1	15	9	3
3.1m	1	2		5	3	1
121m	30	30	1	150	90	30
Gates				30	18	
268.85m	73	79	4	395	237	73

APPENDIX F – Waste certificate

Waste Carriers and Brokers Registration Certificate

Certificate of Registration under the Waste (England and Wales) Regulations 2011

Regulation authority

Name	Environment Agency
Address	National Customer Contact Centre 99 Parkway Avenue Sheffield S9 4WF
Telephone number	03708 506506

The Environment Agency certify that the following information is entered in the register which they maintain under regulation 28 of the Waste (England and Wales) Regulations 2011.

Carriers details

Name of registered carrier	RECONOMY (UK) LIMITED
Registered as	An upper tier waste carrier, broker and dealer
Registration number	CBDU64227
Address of place of business	Kelsall House Stafford Park Court Stafford Park 1 Telford TF3 3BD
Date of registration	8 October 2024
Expiry date of registration (unless revoked)	26 October 2027

This certificate was created on 8 October 2024. These details are correct at the time of certificate generation.

This copy has been issued under Regulation 6 of Waste (England and Wales) Amendment Act 2014 by the Environment Agency. This is copy number 1 of the certificate.

Making changes to your registration

Your registration will last 3 years and will need to be renewed after this period. If any of your details change, you must notify us within 28 days of the change.

You can do this by calling the Environment Agency.

Reconomy Kelsall House, Stafford Court, Stafford Park 1, Telford, Shropshire TF3 3BD
01952 292 000 **enquiries@reconomy.com** **reconomy.com**
Registered Office as above. Registered in England No. 2951661. VAT Registration No. 790 9484 79.

Jacobs Bond Pascoe – Wrexham -GBS3668 Date:12.09.25

APPENDIX G – Manual Handling

MANUAL HANDLING RISK ASSESSMENT FORM

Summary of Assessment:			
Operation covered by this assessment:			
Item:	Description:	Weight:	Lift:
1	Steel Posts 203x133 UB19 Lg 5000mm	100kg	Machine lift
2	Poly Panels - 4380x415x160mm	30kg	1-2 person lift
3	Other components and fixings and hand tools	Up to 25kg	1-2 person lift
4			
5			
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MANUAL HANDLING RISK ASSESSMENT FORM

Overall priority for remedial action (please circle as appropriate)		
Trivial:	Tolerable: X	Intolerable:

People performing the operations:	
Site Operatives	
Location of the operation:	
Wrexham - Maelor Foods	
Date action to be taken by:	15/09/2025
Date for re-assessment:	Ongoing
Assessors name:	Mark Whittle
Signature:	*M Whittle*

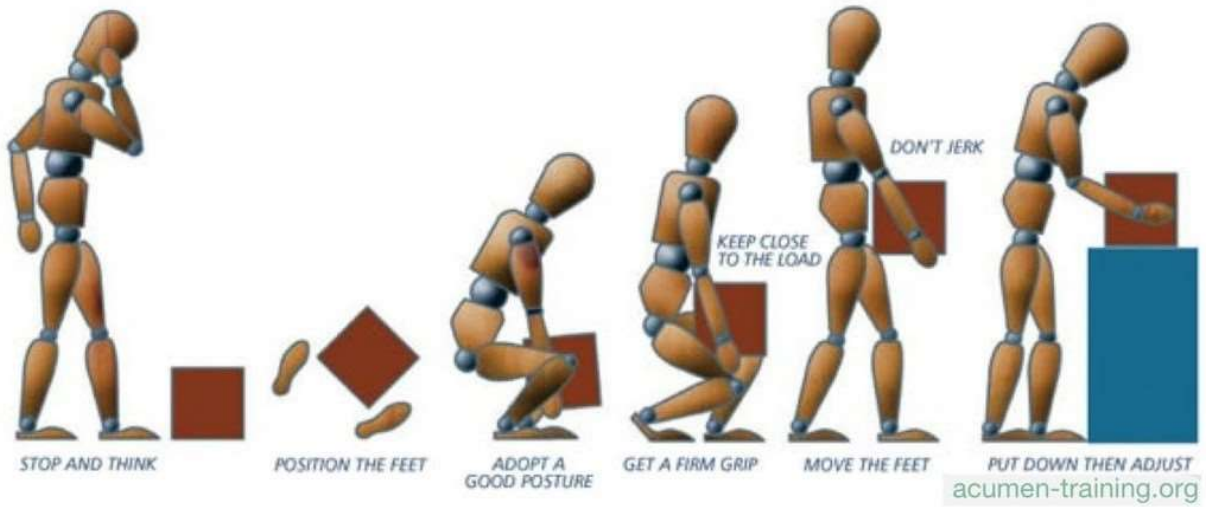
Section 'A' – Preliminary			
1	Do the operations involve significant risk of injury? If yes, go to '2'. If not, the assessment need go no further. If in ANY doubt, answer yes!	Yes X	No
2	Can the operations be avoided/mechanised/automated at reasonable cost? If not go to 3	Yes X	No
3	Are there elements of the task clearly identified in 'B'	Yes X	No

Section 'B'			**More detailed assessment (page 2)**				
Triv.	Trivial	**Tol.**	Tolerable	**Sub.**	Substantial	**Intol.**	Intolerable
		X					

Section 'B' – more detailed assessment						
Questions to consider. Score the activity in line with the Risk Assessment Guidance. Add the total and look at level of further action that is required	Does it/they apply?		Level of Risk		Possible remedial action. Notes to be carried to 'B'	
	Y/N	Triv 1	Tol 2	Sub 3	Intol 4	
The loads, are they:						
Heavy? Bulky? Unwieldy?	Y		X			
Difficult to grasp?	Y		X			
Unstable? Unpredictable?	Y		X			
Sharp? Hot? Cold? Rough?	Y		X			
Individual Capability:						
Unusual capability requirement?	N					
Is it likely to cause issues to those with health problems?	N					
Is it a hazard to childbearing females?	N					
Is special training or information required?	N					
Is movement hindered by PPE?	N					
The Task - do they involve:						

Holding loads away from the trunk?	Y		X			
Twisting? Stooping?	Y		X			
Stretching? Bending?	N					
Large vertical movement?	N					
Long carrying distances?	N					
Strenuous pushing/pulling?	Y		X			
Unpredictable load movement?	Y		X			
Repetitive handling?	Y		X			
Insufficient rest or recovery?	N					
A work rate imposed by	N					
The work environment – are there:						
Constraints on posture?	N					
Poor floors?	N					
Variations in levels?	Y		X			
Hot/Cold/Humid conditions?	N					
Strong air movements?	N					
Poor lighting conditions?	N					

	Triv **1**	**Tol** **2**	**Sub** **3**	**Intol** **4**	**20 = LOW RISK**



APPENDIX H – Traffic Management Plan

1.0 Overview

1.1 The CTMP describes the proposed program of construction works and the key activities that will be undertaken.

1.2 This document forms part of site specific documentation and company procedures including, but not limited to, the health and safety policy, construction phase plan, risk assessments, method statements and permits to work. The purpose of this plan is to detail specific arrangements and responsibilities in place relating to site traffic management, and to managing the risks associated with vehicular and pedestrian traffic on site. This document will be clearly displayed and made available to all persons working on / visiting sites under the control of the business.

1.3 This CTMP outlines the management of the movements of vehicles and pedestrians on site and interaction with adjacent land use. It does not cover the present permanent traffic situation and conditions surrounding the site.

1.4 The main contractor responsible for the works is:

Jacobs Bond Pascoe

1.5 The construction activities comprise of small-scale construction works as follows:

- Acoustic Barrier
- Ad-hoc noise mitigation measures
- Installation of terminal Sound attenuators on HVAC plant

1.6 The CTMP forms part of the overall project management and as such, activities described would be integrated with other Quality, Sustainability and Health and Safety Management processes.

1.7 **Description of Works** – a series of works will be undertaken by separate specialist contractors, the overall Construction program spanning approximately 12 months, divided into the following main stages / elements:

- Site access, vehicle routing, vehicle parking
- On-site set-up and enabling works
- Substructure construction
- Superstructure construction
- Completion of stand-alone elements

APPENDIX H – Traffic Management Plan

1.8 **Hours of Working** - Hours of construction operations on site will be restricted to 08:00 until 18:00 Monday to Saturday and at no time on Sundays or Bank Holidays.

1.9 **Pedestrian Safety** – the site is an existing secure operational facility. The site will continue to operate whilst construction elements are undertaken. Each area or phase of construction activity will be secured prior to progression of said phase. Relevant areas of work to be secured will be at the instruction of the Site Manager and only removed when construction in the area is complete and ready for occupation. The Site Manager will be responsible for checking and ensuring, on a daily basis, that all road and pedestrian signage and barriers etc. are in good condition.

2.0 Site Access / parking for construction traffic

- Access to the site will be from the existing wider road network and via the existing site access. The road network is capable of accommodating an existing daily flow of traffic to and from the site. The site access specifications meet recognised Highways standards, in particular the visibility splay of 2.4m x 215m.
- All vehicle entering and existing the site must report to the gatehouse, are logged and directed within the site accordingly.
- A dedicated area for parking of Contractors vehicles is identified within the operational site. They will be restricted from parking on either the highway or verges.
- The site operates a one-way system for all existing traffic. This will be applied to all Contractor related vehicles.
- A copy of the CTMP will be issued to all subcontractors and delivery companies and will be located within the site office and updated to suit on-site conditions and activities, confirming the above access arrangements and permitted hours of working and deliveries.
- Contractor vehicles sizes will vary from small vans to articulated lorries. Turning facilities will be made available within the development site for access and egress and should any manoeuvres be required within a constrained area movements will directed under the supervision of a trained, qualified and certified banksman.
- All vehicles leaving site carrying waste materials are to have loads securely covered to prevent any material being dropped onto public footpaths or highways.
- All spoil is to be retained on site.
- A material storage area is located within the site compound.
- The site can accommodate on-site manoeuvring of vehicles of any size, via existing hardstanding area.

APPENDIX H – Traffic Management Plan

- During all construction stages, appropriate signage will be put on the adjoining highway network (junction with A525 and site access on Pickhill Lane).

3.0 Construction traffic volume

3.1 The approved works will not be undertaken as one contract. A series of works will be undertaken by separate specialist contractors, each will their own anticipated number of vehicle movements / type etc.. As each element is being undertaken in isolation, no individual project is expected to generate a high volume of associated traffic. Vehicles will predominantly be small-scale, except for the occasional HGV/low-loader transporting large pieces of equipment such as Acoustic panels / steelwork. Maximum number of construction related vehicles not likely to exceed 10/day, per element of works.

4.0 Environmental control

4.1 **Wheel Washing** – this is not deemed necessary. All access routes and proposed parking / compound areas will be via existing hardstanding and existing vehicular routes within the site. The scale of works do not justify large scale construction vehicles or contractor equipment.

4.2 Should cleaning be required for whatever reason, a power washer will be made available. Site staff will be responsible for ensuring that only clean vehicles are allowed to re-enter the public highway and that the public highway is inspected and is clear of mud and any other detritus.

4.3 **Water pollution** – all surface water (buildings and external areas) is routed via an existing system to the existing on-site treatment works. This will have capacity to accommodate any additional discharge from the construction works.

4.4 **Noise and Emissions of Dust and Dirt during Construction** - the following measures will be put in place to control environmental effects of the construction process:

- Concrete will be ready mixed and delivered by mixer trucks.
- No hand mixing of mortar or concrete will be undertaken on-site.
- Material stockpiles such as topsoil or stripped areas, liable to dust will be suppressed with sprayed water.
- Adequate noise controls will be put in place, via the use of suppressors and baffles, to control noise sensitive activities and equipment i.e. generators, pneumatic drills etc. from disturbing local residents.

APPENDIX H – Traffic Management Plan

5.0 Public Rights of Way

5.1 No public rights of way will be affected by construction traffic or associated activities.

APPENDIX I – Lift Plan

Description	Use of 9 Ton excavator to lift steel posts, concrete gravel boards and poly panels into position. The steel posts will be lifted into a poured concrete foundation. The lifts will done using a quick release extractor clamp and drop chain for the posts, lifting strops/2-leg lifting chains for the gravelboards/panels.	**Lift Plan No:**	GBS3668-EX01-9–R1
Site Location	Wrexham – Jacobs Bond Pascoe	**Date**	15.09.25
Machine Required/Used (Make/Model/Serial No)	9T - ZX95US-7		
Plan Prepared By (Project Lifting Operations Appointed Person)*:			
Print Name		**Signature**	**Date** 15.09.25

EXCAVATOR	~~**LORRY LOADER**~~	~~**LIFT TRUCK**~~	~~**TELEHANDLER**~~	~~**PILING RIG/AUGER**~~
Type of Lift:	**Basic**	~~**Intermediate**~~	~~**Complex Lift**~~	
Method of Communication:	~~**Radio – DectComms**~~	**Hand**	~~**Other**~~	

Description of Lift(s) *(Attach Safe System of Work and Drawing as appropriate)*	**Gross Weight** *(weight of load to be lifted + lifting accessories + safety factor 10%)*	**Max Safe Working Radius** *(taken from machine duty charts)*	**Approx Height (m)**	**Method of Securing Load**	**Comments**
A. 203 x 133 x UB19 Steel Posts - 5000mm 100kg	278kg	4.0m	6m	Quick Release Extractor	Acceptable – Utilisation 15.7%
B. Gate Leaves – 3500x2000x100mm – 200kg	264kg	4.0m	5.0m	2-Leg chains/Lifting Strops	Acceptable – Utilisation 19.9%
C. Concrete Gravelboards 4250x250x150mm – 415kg	501kg	4.0m	5.0m	2-Leg chains/Lifting Strops	Acceptable – Utilisation 23.6%
D. Poly SoundBlok Panels - 4250x415x150mm – 30kg	77kg	4.0m	5.0m	2-Leg chains/Lifting Strops	Acceptable – Utilisation 3.6%

All plant and lifting equipment is to be operated, inspected and maintained in line the following regulations:

- **LOLER `98 - Lifting Operation and Lifting Equipment Regulations 1998**
- **PUWER '98 - Provision and Use of Work Equipment Regulations 1998**
- **BS7121 Part 1 – Code of Practice for safe use of cranes (1- General)**

Works equipment is to be maintained, inspected and used in accordance with PUWER regulations. Excavators will be hired in and an in-date thorough examination certificate must be available for the machine prior to use.

Lifting accessories stated in the lift plan are minimum required. Lifting accessories with higher SWL and length may be utilised.

Lifting Plant

The excavator to be used is a Hitachi ZX95US-7 supplied by Synergy plant hire.

Due to the length of the posts and lifting chains and the excavator reach, it may be necessary to use an extension arm when lifting the steel posts. This has been included in the capacity check below.

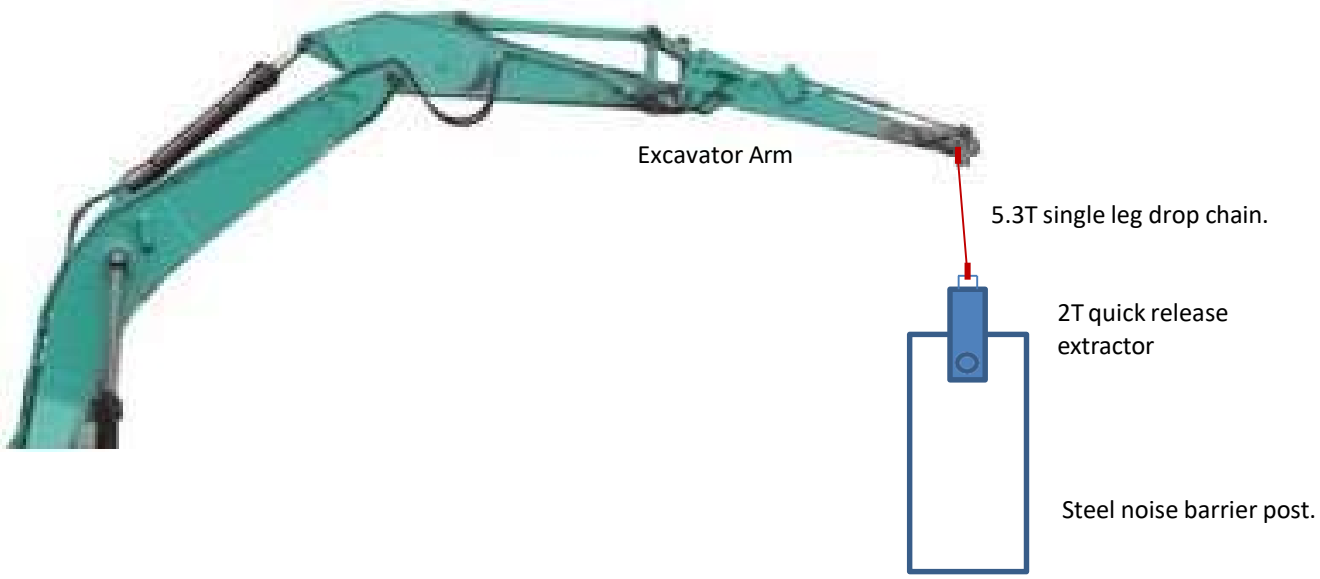
Emergency Arrangements

Emergency arrangements for the works will be confirmed during the site induction before beginning works.

Further detail on Method for of securing / slinging loads:

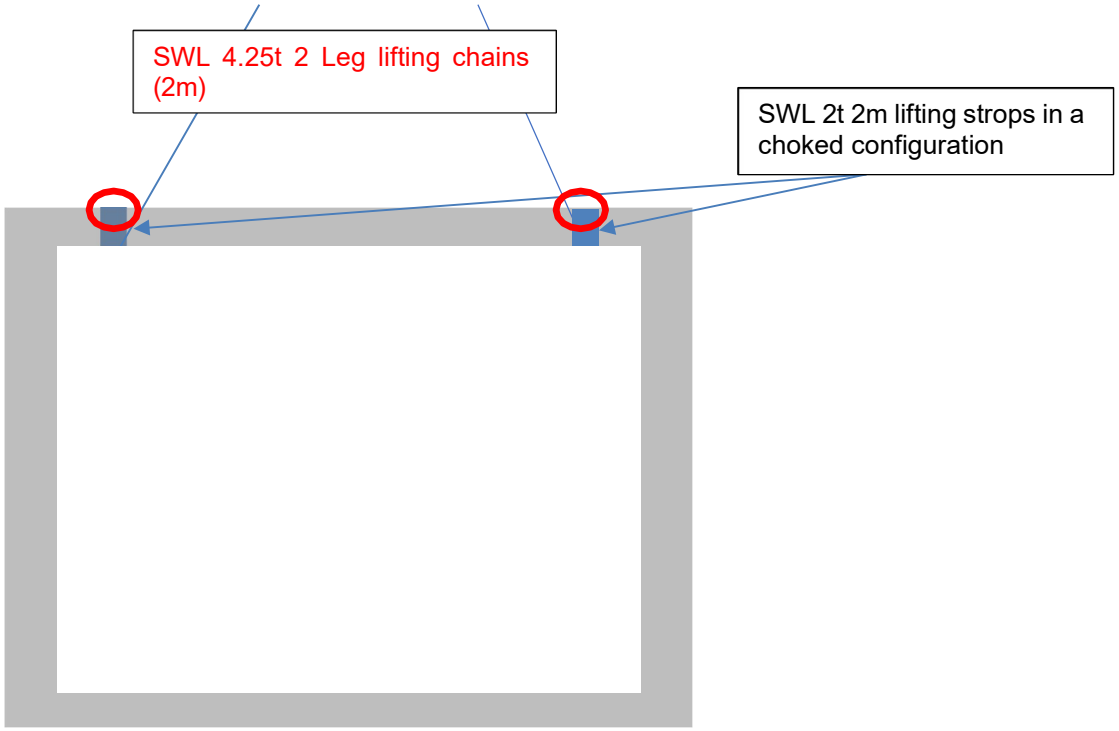
Noise Barrier Posts – Extractor (Ref A):

Attach SWL 2t quick release clamps to dedicated lifting point (Pre drilled hole in the top of the steel noise barrier posts), then attach SWL 5.3t single leg chain to quick release clamp. The 5.3t Single leg chain to be connected to the lifting eye of the excavator.



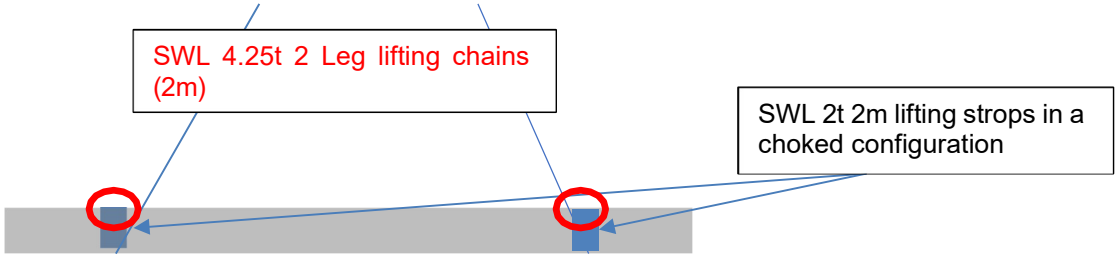
Gate Leaves – Lifting Chains and strops(Ref B)

This will consist of lifting the gate leafs onto the hinges of the gate posts. Attach SWL 4.75t Shackle and SWL 4.25t 2-leg lifting chains to the excavator arm. 2x 2m SWL 2t lifting strops will be wrapped in a choked configuration then attached to the SWL 4.25t 2-leg lifting chains.



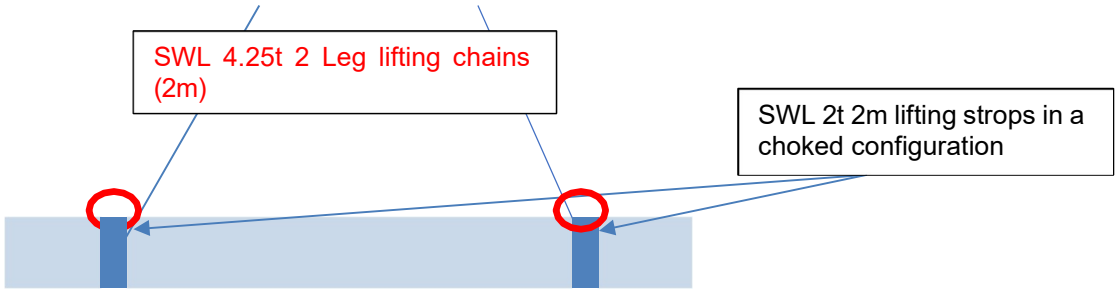
Concrete Gravelboards – Lifting Chains and strops(Ref C)

This will consist of lifting the poly soundBlok panels into position within the web of the posts. Attach SWL 4.75t Shackle and SWL 4.25t 2-leg lifting chains to the excavator arm. 2x 2m SWL 2t lifting strops will be wrapped in a choked configuration then attached to the SWL 4.25t 2-leg lifting chains.



Poly SoundBlok Panels – Lifting Chains and strops(Ref D)

This will consist of lifting the poly soundBlok panels into position within the web of the posts. Attach SWL 4.75t Shackle and SWL 4.25t 2-leg lifting chains to the excavator arm. 2x 2m SWL 2t lifting strops will be wrapped in a choked configuration then attached to the SWL 4.25t 2-leg lifting chains.



Lifting Details

	A	B	C	D
Description of load to lifted	Steel Post	Gate Leaves	Concrete Gravelboards	Poly SoundBlok Panels
Max weight of load item as advised (kg)	100	200	415	30
Max size of load being lifted	5000mm 203x133x19	3500x2000x100mm	4250x250x150mm	4250x415x150mm
Radius at which load is to be placed	4.0m	4.0m	4.0m	4.0m
Height at which the load will be lifted	6.0m	5.0m	5.0m	5.0m
Safe working load capacity at given radius (kg)	1766	2120	2120	2120
Weight of Slings / Lifting Strops/Restraining strap (kg)	-	5	5	5
Weight of Quick Hitch (kg)	93	93	93	93
Weight of Shackle (kg)	5	5	5	5
Weight of Quick Release Extractor (kg)	22	-	-	-
Weight of 2 leg chains 2 MTR x 13mm x 4.25T (kg)	-	30	30	30
Weight of Drop chain 1 MTR x 13mm x 5.3T (kg)	7.5	-	-	-
Fork Attachment (kg)	-	-	-	-
Extending Jib (kg)	118	-	-	-
Available lifting capacity for load to be lifted (kg)	1673	2027	2027	2027
Total Load including tackle (kg)	278	264	501	77
Spare lifting capacity (kg)	1395	1763	1526	1950
Acceptable (maximum utilisation is 90%.)	Acceptable – (Utilisation 15.7%)	Acceptable – (Utilisation 12.5%)	Acceptable – (Utilisation 23.6%)	Acceptable – (Utilisation 3.6%)

As per manufacturer's spec sheet -
To determine lifting capacities, apply "Rating over-side or 360 degrees" machine capacities from table with "Blade above Ground" and deduct weight of installed attachment and quick hitch.

Extension arm

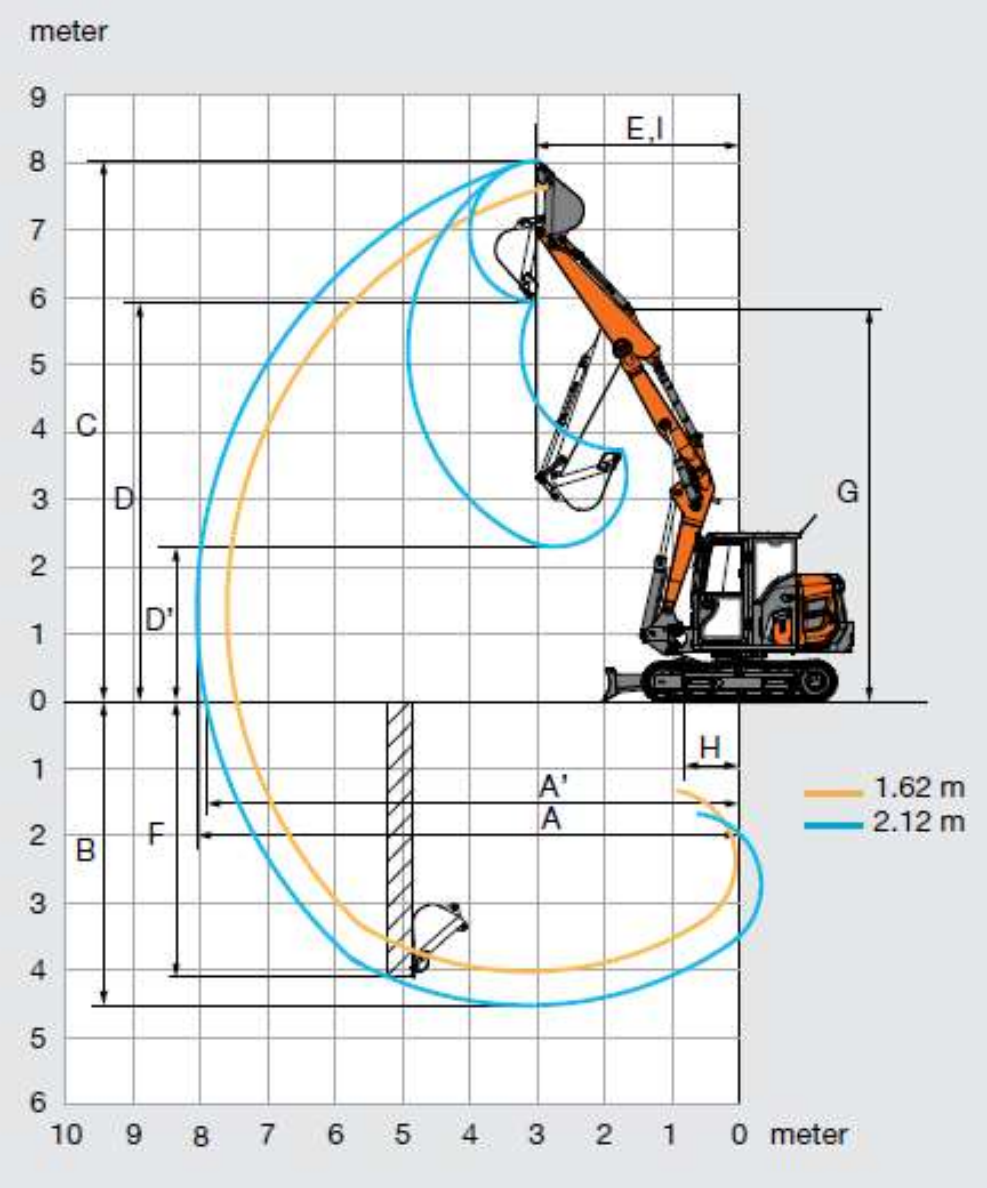
Calculation for using extending Jib:

1. Take the maximum height of the proposed lift (Including the extended jib) then divide it by the safe working on height shown for the SWL radius on the below duty chart:
    - Maximum height of lift = 6m
    - Divided by the height shown on the duty chart at a 4m radius = 5m
    - 6 / 5 = 1.2 (This is the ratio for the increased height)
2. From the below duty chart, take the max SWL for the radius and max height (4m radius @ 6m height) Divide the SWL by the above ratio for the increase height.
    - 2120kg / 1.2 = 1766kg

Pick and Carry

1. Any site staff not part of the lifting operation must remain outside the exclusion zone.
2. Align the undercarriage of the machine with the upper structure.
3. Maintain the radius within that allowed by the lift plan, remembering the load may swerve out while travelling.
4. Select Creep speed travel. Always maintain creep travel speed to minimise load movement during the lift.
5. Raise blade from ground.
6. Proceed slowly with a marshal/Lift Supervisor if required to supervise the plant movements.
7. Keeping the load close as possible to the ground travel the excavator to the required position.
8. When traveling with load, do not apply sharp adjustments to the controls.
9. Deploy the front blade.
10. Continue with lifting operations as above.

Machine Details



Conditions	Load point height (m)	Load radius 1.0 m		2.0 m		3.0 m		4.0 m		5.0 m		6.0 m		At max. reach		
																meter
Boom 3.93 m Arm 2.12 m Counterweight 1 165 kg Grouser shoe 450 mm	5.0							*2 140	2 120	1 780	1 430			1 350	1 080	5.75
	4.0							*2 310	2 060	1 750	1 410	1 260	1 010	1 110	880	6.38
	3.0							2 420	1 920	1 680	1 340	1 230	980	980	770	6.77
	2.0							2 210	1 730	1 580	1 240	1 180	930	910	710	6.96
	1.0							2 030	1 560	1 480	1 150	1 130	880	880	680	6.99
	0 (Ground)							1 920	1 460	1 410	1 080	1 080	840	890	690	6.84

All lifting accessories that are present on the site for over a 4 week period must be colour coded as per the site rules.

Lifting Accessories		
Quick release extractor SWL 2T	Identification	
	SWL	2000kg
	Date of 6 Monthly Inspection	
Drop chain 1 MTR x 13mm x SWL 5.3T	Identification	
	SWL	5300kg
	Date of 6 Monthly Inspection	
Shackle SWL 4.25T	Identification	
	SWL	4250kg
	Date of 6 Monthly Inspection	
Extension arm SWL 900kg	Identification	
	SWL	900kg
	Date of 6 Monthly Inspection	

Describe Controls required / Safe System of Work.			
Interface between installers and plant.	Exclusion zone to be set up around Excavator using cones and barrier tape, all installers to be in a position of safety when the lift is being carried out. Any lifting activities to stop whilst site operatives require access to walk or drive by.		
Ground conditions	Allowable ground pressure TBC 39kPa		
Maximum working wind speed.	11m/s		
Statutory Utilities	TBC		
SWL Restrictions	Excavator SWL –1766kg	Checked in place and Working – Lift Supervisor (Sign)	
Other Proximity hazards and Control Measures	No plant movements to take place in the works area without a banksman/LS present.		

Sequence of Operations:

1. LS to brief all personnel involved in lifting operation and review the working area to check the lift plan is appropriate to the working area.
2. LS to check lifting equipment thorough examinations are in date
3. LS to check competency of all lifting operatives (CPCS)
4. Excavator operator and LS to carry out all pre-use check on all lifting equipment and accessories
5. Excavator to be mobilised to area and set-up as per manufacturer's instructions
    - LS to ensure correct configuration
6. When lifting materials and plant
    - assess weight of load
    - Secure loose items that may slide/move during lifting
    - Check condition of steel posts, acoustic panels and concrete panels before lifting.
    - Check the condition of lifting points on steel posts and concrete panels.
7. LS to select correct lifting accessories for the lift.
    - Lifting accessories stated in lift details are the minimum required, accessories with greater SWL and length may be used
8. LS to attach tag line to the load
9. Trial lift to be completed
10. LS to instruct operator to lift the load and place in required position
    - No hands to be placed on the load above shoulder height
    - Hands must be placed flat on the load avoiding corners and pinch points
11. Once the load is safe the SS will disconnect lifting accessories
    - LS to ensure the correct storage of all accessories
12. LS is to de brief the team and ensure the site is left safe and tidy and the excavator secured as per manufacturers guidelines.

We confirm that the above details have been fully explained and confirm our understanding of the Permit requirements.				
Name	**Title**	**Signature**	**CPC/ALLMI Number and Expiry Date**	**Date**

Periodic Review (detail here dates of periodic reviews. Note: if review determines that any controls have changed a new lift plan must be produced)

Name	**Title**	**Signature**	**Date**

Please note, client or others to provide onsite lift supervisor. Details to be entered onsite before lift along with operator and banksman provided by JBP.

All variations to this Method Statement / Lift Plan (including drawings) must be notified to the Appointed Person before proceeding with the Lift. The details of the variations, together with the comments of the Appointed Person must be noted below.

Variation Details No. 1	Time Contacted AP	Initials
Comments From Appointed Person	**Permission To Proceed**	**Initials**

All other details are as per the Method Statement, Lift Plan		
Appointed Person	**Signature:**	**Date:**

RISK ASSESSMENT

Contract number and title	RA number	Element of work	Risk assessment author	Date
Jacobs Bond Pascoe - Wrexham – GBS3668	GBS3668-RA01	Lifting of steel noise barrier posts and timber panels using a 9Ton Excavator	Mark Whittle **Approved by** Justice Baah	15.09.25

Hazard	Persons in danger	Severity	Likelihood	Risk rating	Control measures	Final risk rating

Likelihood \ Severity	1	2	3	4	5
1	1	2	3	4	5
2	2	4	6	8	10
3	3	6	9	12	15
4	4	8	12	16	20
5	5	10	15	20	25

Risk Rating	Description
15-25	High Risk – work must stop until adequate controls devised and implemented
6-12	Medium Risk – work may commence only if no other method is viable and with high levels of controls in place
1-5	Low Risk – No further controls required.

RISK ASSESSMENT

Lifting Operations with Excavator • *Failure/Collapse of equipment* • *Dropped Load.*	E / SC / V	**5**	**4**	**20**	• Operatives must be Trained and Competent Slingers. • All loads must be made secure and lifted in accordance with the approved Lift Plan. • Exclusion Zones must be Established and Maintained. • All Lifting equipment must be Tested, Certified and In Date • Pre-Use Checks must be carried out on all Lifting Equipment and Apparatus • All persons must keep clear of the load while lifting. • Before any lifting operation can take place with the Excavator an approved Lift plan MUST be in place and communicated to all personnel taking part in the lift • Excavator operator to maintain visual contact with slinger at all times during lifting operation • Minimum 600mm gap to be maintained between lifting equipment and any structure trapping point • Lift supervisor will ensure that the approved lift plan is followed • If for any reason the lifting operation cannot be carried out as per lift plan, the lifting operation must stop, and the Appointed Person must be contacted • All variations to lift plan must be recorded.	**5-2-10**

RISK ASSESSMENT

Weather Conditions	E / SC / V	**5**	**5**	**25**	• Lifting operations to cease and be made safe if wind speed exceeds the Stated Wind Speed Limit. • **Fog:** Lift supervisor, SS and excavator operator to monitor visibility to ensure eye contact. excavator operations to stop if eye contact is poor. • **Lightning:** Lifting operations must stop during storms, or when there is a risk of lightning strikes, with a minimum rest period of 30 minutes without thunder or lightning. • **Rain:** Consider the effect upon the load (Slippery, increased weight) • **Ice:** Consider Slippery conditions underfoot. Load can freeze on previously wet surfaces. • **Snow**: Consider additional weight on the load. Local obstructions / Underground Services or covers could be obscured. • **Sun**: drink plenty of water to avoid dehydration. Use sun block to protect the exposed skin. Use tinted safety glasses to protect your eyes.	**5-2-10**
Ground Conditions / Underground Services	E / SC / V	**5**	**3**	**15**	• Temporary works coordinator to be consulted prior to setup ○ If permit to load is required, it must be issued to SS prior to commencement of works • Lift Supervisor to check ground conditions prior to commencing work and report any issues.	**5-1-5**
3rd Party Construction Activities / Other Lifting Activities	E / SC / V	**5**	**3**	**15**	• Interface with other work activities must be managed and de-conflicted. • All exclusion zones must be obeyed.	**5-1-5**
Site Roads / Footpaths • *Interface between pedestrians and plant*	E / SC / V	**5**	**3**	**15**	• Exclusion zones to be established prior to commencing work. • Vehicle and Plant Marshall to control plant, and the general area.	**5-1-5**
Transport and Traffic • *Collision* • *struck by/against*	E / SC / V	**5**	**3**	**15**	• Vehicle Operators Trained and Competent. • Vehicle and Plant Marshall to control vehicles • Hi-Vis to be worn. • Use segregated routes for Plant and Pedestrians. • Local controls for control and location of plant to be followed. • Establish and Maintain Exclusion Zones.	**5-1-5**
Working at height	E / SC / V	**5**	**3**	**15**	• When double stacking posts or panels a MEWP must be used to access lifting points • Any delivery Vehicles must have suitable edge protection, or a fall arrest system installed.	**5-1-5**

RISK ASSESSMENT

Manual Handling – • *Musculo-skeletal injury when manipulating lifting equipment.*	E / SC / V	**5**	**3**	**15**	• Operatives to be trained in Manual Handling. • Seek assistance when manual lifts exceed their personal limits or use mechanical means. • Operatives to be familiar with the equipment being used.	**5-1-5**
PPE Requirements	E / SC / V	**5**	**3**	**15**	• PPE as mandated by Site Inductions must be worn: – Hard Hat (Orange Colour signifies Slingers) – Suitable Workwear – Hi-Vis – Safety Boots – Gloves – Light Eye Protection • Replace defective PPE	**5-1-5**
General Housekeeping • *Slips Trips and Falls*	E / SC / V	**5**	**3**	**15**	• All operatives to receive local induction and Activity Plan Brief including the risk of Slips, Trips and Falls • Operatives will clear the working area of redundant debris, Materials and Plant. • Lifting Equipment will be stored away from the point of work when not in use. • STFs will be identified and recorded on a POWRA.	**5-1-5**
Pinch Points / Crushing • *Pinch Points* • *Trapped under load*	E / SC / V	**5**	**4**	**20**	• Where the Excavator creates a Pinch point (600mm or less), barrier off to prevent access. • Remain clear of the load in transit. (Hands/Feet/Bodies) • Operatives positioning load to be briefed, trained and competent. • Position loads using tag lines wherever possible • Nonessential persons to be excluded • No hands to be placed on the load until below shoulder height • Hands to be placed flat on load avoiding pinch points. • Utilise push/pull sticks at all times to position loads and to retrieve tag lines. • Pinch points will be identified and recorded on a POWRA.	**5-2-10**
Load Integrity	E / SC / V	**5**	**4**	**20**	• Load must be secure – No loose items or debris. – Manoeuvre with Tag lines	**5-2-10**
Underground Services	E / SC / V	**5**	**3**	**15**	• No services present in working area • Lift Supervisor to control setting up of the excavator in accordance with Lift Plan.	**5-1-5**

RISK ASSESSMENT

Service Covers	E / SC / V	**5**	**3**	**15**	• Lift Supervisor and operator to ensure, that the excavators tracks are not on top of service covers.	**5-1-5**
Fatigue	E / SC / V	**5**	**5**	**25**	• Approved Shift Pattern to be adhered to. – Shift Pattern must allow sufficient rest time between shifts, allowing for travel time. – Shift Pattern must allow sufficient non-working days to ensure operatives are rested. – Agreed Working time is not to be exceeded. – Specified breaks with suitable facilities must be taken. • Consider adequate rest times when changing shifts.	**5-2-10**
Communications Failure • *Radio Breakdown* • *Rolling fog* • *Unable to see hand signals*	E / SC / V	**5**	**3**	**15**	• Comms procedures to be agreed prior to commencement of works. • Action in case of loss of comms: o All Stop until contact re-established. • Use dedicated lifting radios when required. • Make sure the operative has clear vision of the lifting operation and SS at all times. If line of site is obscured, stop the lifting operations and re position either the SS or plant before carrying on the lift.	**5-1-5**
Environmental Release • *Oil Leak* • *Fuel Leak* • *Hydraulic leak* • *Refuelling spill*	E / SC / V	**5**	**3**	**15**	• Plant to be issued with Spill Kit • Additional Spill Kits on the Working Platforms • Plant to be refuelled at a designated Refuelling area. • Plant Nappies and Drip Trays to be used when refuelling.	**5-1-5**

RISK ASSESSMENT

Work Adjacent to Live Road • Moving vehicles	E / SC / V	**5**	**3**	**15**	• T.M to be installed by Principal Contractor to protect the workforce if required. • Long sleeved tops and trousers, Class 3 Hi – Vis clothing to be worn. • All vehicles on the live carriageway must have flashing beacons and chapter 8 chevrons. • All works, where at all possible, must avoid the use of the live carriageway. • Access points and safe routes must be briefed via RAMs and Task briefings before entering site. • If an RTA or breakdown occurs within traffic management the emergency services to be called where necessary. First aiders to attend. All such incidents to be reported to site and recorded in the order of severity e.g Accident , Near Miss , Close Call . Site team to assist with recovery where it's safe to do so. • Emergency services will be responsible for all such incidents on the live carriageway, site team to assist if requested. • All vehicle movements around sites are subject to a 5 - 15mph speed limit, and should take account of footpaths and access routes. • Wheels should be checked for excess mud before driving on the public highway.	**5-1-5**
COSHH Materials • *Oils* • *Grease* • *Fuel*	E / SC / V	**5**	**3**	**15**	• COSHH Assessments carried out, controls Briefed and followed. • Appropriate PPE (per COSHH Assessment) for Refuelling and Servicing activities.	**5-1-5**
Pick and carry. **Travelling Under Load.**	E / SC / V	**5**	**4**	**20**	• Apply 20% factor of safety to lifting accessories when travelling under load. See lift details. • Operator to reduce radius to minimum required. • Load to be profiled. • Slingers to control the load with tag lines or push pull sticks. • For pick and Carry operations, the slinger must be Qualified All Types – All Duties. • If the load begins to swing excessively, it must be place down on the ground before proceeding with the lift.	**5-1-5**

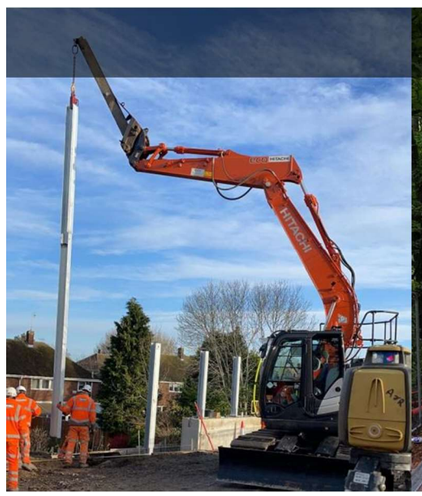
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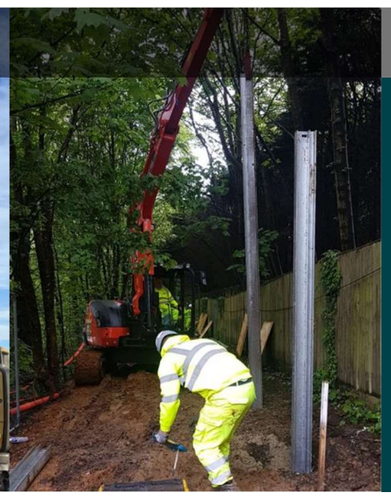
- **This is not an exhaustive list of hazards, risks or controls. The controls listed are a minimum requirement to control hazards and risks arising from the task described in the RAMS document – Any hazards identified on site not covered within the risk assessment should be identified and works stopped until the assessment can be updated.**











Steel Post Installation Using Excavator.

. 5 – 8 Ton Excavator
. Extending Jib Arm to suit machine
. Quick release lifting clamp attached to the crane hook
. Steel posts lifted into position using above equipment.
Steel posts have a 30mm hole pre-installed at the top of the post to accept the lift clamp. One in position and secured, the post is released by pulling on the release rope from a position of safety on the ground.

Quick Release Trench Sheet Extractor - Instructions



Specifications
Weight: 22kg
SWL: 2000kg
Jaw gap: 20mm

Safety Information
Current health and safety legislation requires that construction equipment users formulate a site specific Safe System of Work to undertake the works that will take place. The equipment is delivered with a valid Thorough Examination.

The extractor is designed to raise or release by using a pin that securely goes through the hole of the trench sheet. The mechanism will lock when the pin is fully engaged.

When the trench sheets have been pulled from the excavation they can be lifted and stacked away.

It is always best practice to clean the sheets of any excess mud or soil before re-stacking them in piles.

Using the Quick Release Trench Sheet Extractor

1) It is always best practice to use a suitable single leg drop chain with swivel locking hook to attach between the Quick Release Trench Sheet Extractor and the machine that is lifting it. It allows the extractor to turn when pulling and lifting the trench sheets.

WARNING!!!
Shock loads can be more than twice the static load, and can cause very serious damage to the chain you are using which could also include the chain failing causing death or serious injury to the operator and the people around the excavation.

2) Using a drop chain, secure the fitted shackle to the hook and the other end to the lifting device.
3) Lift the trench sheet extractor over the sheet; release the latch mechanism to remove the pin before slotting the jaws of the extractor over the sheet and aligning the handling hole with the pin hole. Slot the pin fully through the jaws and handling hole ensuring the pin is locked over the locating triangle with the latch.
4) Ensure the pin is fully engaged, visual inspection and ensure the end of the pin is protruding beyond the rear of the extractor clamp.
5) The quick release extractor is ready for use.
6) All personnel must be clear when lifting is in process.
7) Extract the sheet using a smooth and even pull. Do not snatch
8) Once extracted carefully lay the sheet down on a clear area / stack of sheets and release Extractor (reverse of above procedure)
9) Do not shake/tap/drag the sheets.

Inspection of Quick Release Trench Sheet Extractor before use

- Check main body for security, damage, wear, twisting or distortion.
- Check also the paint finish on body.
- Check the condition of the lifting shackle with pin.
- Check the pin locates fully.
- Check that threads are not damaged.
- Check the condition of all welds present.
- Check condition of bolts present.
- Inspect pin retention chain for any wear, distortion or damage.
- Lubricate moving parts if required.
- Check plant number if legible.

After use
The quick release extractor must be cleaned, kept lubricated and store in a clean dry place.

This equipment must not be modified or dismantled. Contact your local Marwood Group Depot for more ancillaries or further assistance

MARWOOD GROUP LTD

APPENDIX J – RAMS Acknowledgment Sheet, Tool Box Talk, Task Briefing, H&S Check Sheet

JACOBS BOND PASCOE JBP
POLY SOUNDBLOK®
JBP BARRIER SYSTEMS LTD. - ACKNOWLEDGEMENTS

A) Method workplan.

All personnel must be aware of the contents of the issued Method Statement for the tasks they are to carry out and in particular -

a) The method of carrying out the works.
b) The safe system of work which is to be adhered to.
c) The risks involved and the precautions to be put in place to minimise such risks.
d) Emergency procedures and contacts.

I have read and fully understood the requirements of the above Method / Workplan and will carry out and abide by it's instructions at all times.

Name	Signature	Title	Date

B) Safety Brief

I have been given and fully understood the safety brief and will carry out and abide the instructions at all times.

Name	Signature	Title	Date

C) Permission to Start Work

Date	Start Time	Finish Time	Name	Signature

Location / Site Address: Wrexham – Jacobs Bond Pascoe- Noise Barrier Install **Date:**

Name of Person Giving Toolbox Talk: **Job Title:**

I acknowledge I have received a toolbox talk in: Various talks cover task specific to the work being carried out

Name (print)	Signature

Operatives Comment / Responses to toolbox talk.

This page is to be printed off and signed by all personnel who are/have attended this toolbox talk. The document is to be filed as a hard copy and kept on site.

	JBP BARRIERS H&S SITE SAFETY AUDIT	Rev 0

DETAILS of SITE CONTRACT

Contractor	Jacobs Bond Pascoe
Project Name	Wrexham
Site Foreman	
Date	
Weather	

RECORD OF SITE HEALTH & SAFETY + SYSTEMS CHECKED

Item	Yes/No	Item	Yes/No
Hard Hats are being are being worn at all times.		Waterproof Jackets are being worn as and when required	
High Visibility Vest are being worn at all times.		Waterproof Trousers are being worn as and when required	
High Visibility Trousers are being worn at all times if applicable		Gloves are being worn at all times	
Safety Foot wear is being worn at all times		Safety Glasses are being worn at all times.	
Ear Protectors are being worn task specific			
Method Statement make sure site foreman has the latest copy and has signed along with other installers.		MS Signed Record Sheet	
Risk Assessment make sure site foreman has the latest copy and has signed along with other installers		RA Signed Record Sheet	
Tool Box Talks make sure site foreman and installers have had a toolbox talk before works begin.		TBT Signed Record Sheet	
Layout Drawings make sure site foreman is working to latest drawings.		Permit to Dig (Signed by MC) Make sure site foreman is obtaining a permit to dig before starting works.	
CSCS Site Cards, On persons & available for inspection.		SSST Card (Supervisor) available to view.	
Certificate of competence for Driven Plant CPCS (See List below)			
Forklift		Is the plant being inspected on a daily basis? . Is the machine being stored in a safe location during out of working hours. Is the machine being driven by a CPCS card holder only.	

Excavator & Auger Unit		Is the plant being inspected on a daily basis? . Is the machine being stored in a safe location during out of working hours. Is the machine being driven by a CPCS card holder only.	
Nail Gun & Compressor (in house training been given)		Daily inspections to be carried out on tool, Is correct safety equipment (PPE) being used.	

Materials Storage Area Safe & Tidy		Site foreman is keeping up to date plant and labour returns as to MC procedures.	
Make sure all installers/foremans our installing the fence system to the provided method statement.		Site foreman is attending daily pre start meetings with MC to identify the area and method of work.	

Any problems / items raised by site team

Any Health and Safety items / near misses to report

		Comments

Comments:

DETAILS of PERSON TAKING THE AUDIT

Name	Position
Signature	Date

DAILY TASK BRIEFING SHEET

Client: Jacobs Bond Pascoe **Barrier Location:** Wrexham Date:

Weather Conditions:

	Hazards:	Actions:	Select:
Sunny:	Risk of sun burn and dehydration.	Apply sun cream and drink plenty of water.	
Ligh Rain:	Risk of slips/falls.	Check ground conditions and footwear.	
Heavy Rain:	As above + reduced visibility.	As above + check visibility is safe to work.	
Light Cloud:	Risk of sun burn and dehydration.	Apply sun cream and drink plenty of water.	
Heavy Cloud:	Reduced visibility + chance of rain.	Check conditions are safe before starting.	
Light Wind:	Material being blown around work area.	Check materials and packaging are secure.	
Heavy Wind:	Danger to lifting operations.	Check windspeeds are safe to lift.	
Frost:	Risk of slips/falls.	Check ground conditions and footwear.	
Snow:	Danger to roads and site working conditions.	Check roads and wear appropriate clothing.	

Additional Comments:

Task briefing for the installation of a 3.5m high Poly SoundBlok noise barrier system at Wrexham. Materials are located in the site compound and will be transported to the barrier line by the JBP.

Task:	Hazard:	Actions:	Select:
Removal of panels and steel cross beams	Potential cuts, working at height, Plant and operative interface.	Wear correct PPE. Follow lift plan. Make sure trained operatives are using the correct certified	
Installation of Poly SoundBlok panels	Potential cuts, working at height, Plant and operative interface.	Wear correct PPE. Follow lift plan. Make sure trained operatives are using the correct certified	

PPE:

Please select the appropriate PPE for the tasks being carried out on this shift.

Hard Hats:	X	Safety Boots:	X	Hi-Vis top with long sleeves:	X
Eye Protection:	X	Safety Gloves:	X	Hi-Vis Trousers:	X
Face Masks:		Ear Defenders:			

Additional PPE Required:

Operatives Onsite:

Names:	CSCS	CPCS	NPORS	SSSTS/SM	IPAF	PASMA		Cards Checked:

Plant being used:						Notes:
Excavator:		Forklift Crane Hook:		Jet Wash:		
Auger:		Quick Release Clamp:		Petrol Generator:		
Breaker Attachment:		Drop Chain:		Chop/Circular Saw:		
Fork Attachment:		Scissor Lift:		Mag Drill:		
Crane Arm:		Cheery Picker:		Core Drill:		
Telehandler:		Scaff tower:		Impact Gun:		
360 Telehandler:		Concrete Poker:		110V Drill		
Dumper:		Concrete Skips:		SDS Max Drill:		
Tracked Dumper:		Standard Skips:		Hand Held Breaker:		
Vans + Small tools:		Concrete Wagon:		Hi-Ab:		

Have barriers / measures been put in place to segregate plant and onsite operatives?	
Has the correct PPE been provide / being warn for using the plant/equipment?	
Have the ground conditions been checked to make sure they are suitable for the plant	

Additional comments for todays activities:

GBS/Q0013	VISUAL QUALITY CHECK OF MATERIALS RECEIVED ON SITE

Storage Location:

Items Checked	Quantify	Comments

Are Items clearly Marked	Yes/No	
Have Non-conforming Products been clearly Marked	Yes/No	
Are Materials Stored off the Ground	Yes/No	
Are Materials Stored so as to Prevent Deterioration	Yes/No	
Other Comments:		

Name	**Position**
Signature	**Date**

GBS/Q0012	INSTALLATION & RECORD OF LOCATION - FINAL VISUAL SITE CHECK

Contract:	Maelor Foods – Wrexham
Location:	Wrexham
Type & Height of Barrier.	Noise Barrier

Location Legend.
(How are locations determined)

Marked-up drawings	Drawing Nos.	
Grid System	Grid Sheet Nos.	
Other Methods	Give details	

Check: That the following items are correct, any discrepancies found must be recorded on a Non-conformance Report.

Item	Correct	Remarks	Checker's Initials	Customer's Remarks	Customer 's Initials
Foundations installed to correct position and size?	Yes/No				
Posts correctly Installed upright & level?	Yes/No				
Poly panels installed and secured correctly.?	Yes/No				
Steel cleats installed and secured correctly?	Yes/No				
Ground backfilled against concrete gravel board?	Yes/No				
Site left clean and tidy?	Yes/No				

I confirm that the above items were checked & the fencing section installed at the above location have been installed correctly.

Name (Print)	
Signature	
Title	
Date & Time	at

Agreed by Client's Site Representative

Name (Print)	
Signature	
Title	
Date & Time	at

GBS/Q009	START & FINISH POINT RECORD SHEET (Page 1 of 1)

Contract Title	Jacobs Bond Pascoe – Wrexham	Contract No.	GBS3668
Customer's Business Name	Maelor Foods		

Client / Site Representative Name:

Signature.

Date:

Description:

Start and finish points + heights provided to JBP installers by before works were started.

Site Location / Address

Location No

I confirm that the above Start and finish points plus heights were provided by the client before the works started.

Name (Print)	
Signature	
Title	Lead Installer
Date & Time	at

Agreed by Client's Site Representative

Name (Print)	
Signature	
Title	
Date & Time	at

GBS/Q009	MATERIALS LEFT ONSITE RECORD SHEET (Page 1 of 1)

Contract Title	Spence – West Drayton	Contract No.	GBS3678
Customer's Business Name	Spence Ltd		

Client / Site Representative Name:

Signature.

Date:

Description:

Please check below quants for materials left on site to finish works at a later date or instructed by the M.C for JBP to leave onsite.

Site Location / Address

Materials Left Onsite

	Description	Number	Client Initials
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

Jacobs Bond Pascoe – Wrexham -GBS3668 Date:12.09.25

APPENDIX K – CHERRY PICKER Rescue Plan

INTERNATIONAL POWERED ACCESS FEDERATION
info@ipaf.org www.ipaf.org

Guidance on emergency rescue

1) Rescue plan

Normal and auxiliary control systems built into a mobile elevating work platform (MEWP) will allow the operator to bring the platform of the machine safely to ground level under controlled conditions. It is extremely unusual not to be able to lower the platform using these controls or for all of these systems to fail.

The following is an example of a rescue plan for people who work at height using a MEWP.

Manufacturer/model/ID: Summit Hire - Z45 Cherry Picker

Location of use: Wrexham - Jacobs Bond Pascoe - Acoustic Barrier Installation

Date and duration of rescue plan: From 13 / 10 / 25 to **14** / **11** / 25

Emergency Situation	Proposed Action
Failure of upper control functions while elevated	Where the normal upper control functions fail, the operator will use the upper auxiliary controls to lower the platform safely
Failure of the operator to be able to operate the MEWP functions while elevated due to one of the following reasons: **A.** Operator incapacitated **B.** Auxiliary functions fail to operate from upper control station	Where the operator is incapable of lowering the raised platform using the upper controls, an appointed person familiarised in the use of the 'ground' controls will lower the platform safely using the normal ground controls
Failure of normal ground controls	Where the normal ground controls fail, an appointed person familiarised in the use of the 'ground' controls will use the ground auxiliary controls to safely lower the platform
Failure of ALL normal and auxiliary lowering functions	Where all normal and auxiliary functions have failed, a competent and authorised service engineer should be contacted Name: Contact details:

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Names of nominated ground person(s) on site, familiarised and authorised to lower the work platform in the event of an emergency or a machine malfunction

www.ipaf.org Copyright © IPAF

Name	Signature
This rescue plan should be brought to the notice of those exposed to the risk of working at height and those supervising and managing the same work at height.	

2) Consideration for mid-air rescue

A mid-air, platform to platform rescue should only be considered in exceptional circumstances and only after:

- All normal and auxiliary lowering procedures have been attempted and these are unable to lower the platform.

- Site management have contacted the competent and authorised service engineer listed in the rescue plan, to report failure of normal and auxiliary lowering systems and request engineering assistance.

If after inspection by the competent engineering assistance, it is not possible to affect a timely repair to allow the machine to be brought to the ground safely, senior site management should be contacted for permission to carry out mid-air rescue.

Or

Where the competent engineering assistance is not readily available and an immediate risk exists to the health and safety of any of the occupants from remaining in the elevated basket until an engineer can attend, then senior site management should be contacted for permission to carry out mid-air rescue.

3) Code of practice for mid-air rescue

A. Rescue using another MEWP should only be performed once a site-specific risk assessment has been carried out and a specific plan has been documented and approved by senior management.

B. The rescue machine must be positioned so as to enable the rescue procedure to be carried out without compromising the safety of any personnel involved in the rescue procedure.

C. The platforms of both machines must be adjacent to each other with a minimal gap between them, unless exceptional circumstances mean this is not possible. (Where this is not possible, the circumstances shall be recorded onto the risk assessment form.)

D. Where reasonably practicable, precautions should be taken to prevent inadvertent movement of both platforms during the transfer.

E. The person being rescued (transferred from basket to basket) should wear a full body harness with an adjustable lanyard – the lanyard should be attached to the anchor point on the rescue machine before transfer takes place.

F. Care must be taken not to overload the rescue machine during transfer. This may mean making more than one journey to complete the rescue.

Further guidance on mid-air rescue can be found in ISO 18893:2014 - 6.1.2.8.

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Jacobs Bond Pascoe – Wrexham -GBS3668 Date:12.09.25

APPENDIX L – HAVs Monitoring sheet & Plant Noise Levels

Noise and HAVs Monitoring

The same ear defender will be worn for each item of plant where required.

Ear defender value = H35 M30 L22

Machine	Continuous Average dB (A)	Peak dB (C)	dB at Ear
Disc Cutter	98	104	76
Impact Wrench	93	104	76
110V Max Drill	93	104	76
Petrol Generator	70	79	63

Ear protection must be worn when using the above plant.

There is no requirement to wear ear defenders when using manual hand tools

Machine	Vibration Magnitude	Exposure Action Value	Exposure Limit Value
Disc Cutter	1.4 m/s2	3 Hours 13mins	13 Hours 19mins
Impact Wrench	11 m/s2	25 Mins	1 Hour 39 Mins
110V Max Drill	11 m/s2	25 Mins	1 Hour 39 Mins

Jacobs Bond Pascoe – Wrexham -GBS3668 Date:12.09.25

APPENDIX M – Construction Environment Management Plan (CEMP)

Ecological Management

The Site Manager will be the principal person responsible for ensuring implementation of the Construction Environmental Management Plan (CEMP) during all stages of the works. While the Site Manager is not an ecological specialist, they will have the authority and oversight to ensure that all ecological & environmental protection measures identified in the CEMP are fully implemented and maintained.

The Site Manager will be responsible for coordinating with the appointed Ecological Clerk of Works (ECoW), ensuring that the ECoW is engaged at all necessary stages of the works and is present on site to provide expert guidance and supervision during ecologically sensitive operations. The Site Manager will ensure that the advice and recommendations of the ECoW are fully integrated into the site's operations, and that all site operatives and contractors receive appropriate briefings and toolbox talks on ecological issues.

Effective communication channels will be established between the Site Manager, the ECoW, and all site operatives. The Site Manager will record all relevant communications and ensure that ecological advice is acted upon promptly to maintain legal compliance and protect site ecology.

Ecological Clerk of Works

A suitably qualified and experienced Ecologist shall be appointed prior to the commencement of works to act as the Ecological Clerk of Works (ECoW). They will support the implementation of the CEMP by undertaking site visits and supervising ecologically sensitive operations to ensure compliance with this report, relevant legislation and best practice guidance.

The ECoW will provide ecological advice to the Site Manager and contractors, including input during site inductions and toolbox talks, as well as preparing reports of site visits and ecological observations. The ECoW will also supervise key activities to ensure the protection of species &/ or habitats.

The Site Manager will be responsible for liaising with the ECoW to ensure that their advice is followed and that they are present for works requiring ecological oversight.

Key responsibilities of the ECoW shall include:

- Providing ecological advice to the Site Manager and Contractors;
- Undertaking site inspections to monitor compliance with ecological protection measures;
- Supervising ecologically sensitive activities;
- Preparing and issuing written reports/ inspection statements following each site inspection, outlining observations, compliance status, and any recommended actions or additional measures; and,
- Advising on mitigation and enhancement measures to ensure biodiversity protection throughout the project lifecycle.

The ECoW will act as the principal ecological advisor on site and maintain direct communication with the Site Manager. They will ensure that site operatives and subcontractors are briefed on ecological requirements through toolbox talks and site inductions. Any issues identified by the ECoW will be reported immediately to the Site Manager, who will be responsible for implementing any necessary actions or adjustments to the works programme.

Reports from the ECoW shall form part of the completion package for the works, and shall be made available to the LPA upon request.

3.2 Protection of Itinerant Animals

Although the Preliminary Ecological Appraisal confirms the absence of resident protected species within the application site, it acknowledges the potential for transient or itinerant animals to pass through or temporarily shelter within the working area. This may include species such as badgers, great crested newts (GCNs), reptiles (e.g. slow worms or grass snakes), and hedgehogs, all of which may utilise marginal areas, construction materials, or undisturbed refuges on an occasional basis.

To avoid accidental harm or disturbance to these species, the following precautionary measures shall be implemented.

Pre-Commencement Walkover Survey:

A walkover inspection of the site shall be undertaken by the appointed Ecological Clerk of Works (ECoW) no more than 48 hours prior to the start of any vegetation clearance, demolition, or intrusive groundworks. This inspection will focus on identifying any evidence of recent animal activity, sheltering fauna beneath stored materials or debris, and any signs of protected or notable species use.

Staged Vegetation Clearance:

To protect any itinerant wildlife such as reptiles, amphibians, or small mammals, vegetation will be cleared using a two-stage method. In the first stage, vegetation will be strimmed to 150 mm in height, starting from the centre of the working area and progressing outwards, encouraging fauna to move into retained habitat. This will be carried out in suitable weather conditions and under ECoW supervision if required.

After 24–48 hours, a second visit will reduce vegetation to ground level, with arisings raked off immediately to prevent reoccupation. Stored materials, rubble, and any refugia will be checked by hand prior to clearance.

Inspection of Stored Materials and Machinery:

All materials brought to or stored on site, including timber stacks, piping, spoil heaps, or equipment left overnight, will be inspected each morning prior to use to ensure that no animals have taken refuge. Particular attention will be paid during the early stages of the works when disturbance is minimal and conditions may attract fauna.

Protection of Excavations:

Open trenches, foundations, or deep excavations will be covered overnight or, where not practicable, fitted with escape ramps comprised of rough wood angled at no more than 45 degrees to prevent animals from becoming trapped. Daily morning inspections will be carried out by the Site Manager or ECoW to check for fauna prior to the recommencement of works.

Toolbox Talks and Training:

All site operatives will receive a briefing from the ECoW prior to commencement of works, outlining how to recognise protected species, how to respond in the event of a sighting, and what procedures to follow to avoid harm. This information will also be included within the site induction process.

Contingency Protocols:

If any protected species is encountered during site works or as noted above, all activity in the immediate area will cease and the ECoW will be contacted immediately. The ECoW will assess the situation and advise on appropriate next steps in accordance with legal requirements and Natural England guidance.

Jacobs Bond Pascoe – Wrexham -GBS3668 Date:12.09.25

APPENDIX N – ECOLOGICAL APPRAISAL statement

The Site has been subject to assessment in 2023, it is concluded that the application site is reasonable unlikely to support protected, notable and priority species and habitats.

Furthermore, the proposed development is unlikely to result in significant effects on nearby designated sites, habitats or species.

The following recommendations are made.

The likelihood of effects on boundary habitats is low in the absence of mitigation.

• Recommendation: good site management is implemented in line with the Considerate Constructors Scheme, Code of Considerate Practice.

• Recommendation: barrier fencing is installed at the outset of site works, as a minimum 2m distance from features. Note root protection zones of trees are to be protected in line with BS 5837:2012 – Trees in Relation to Design, Demolition and Construction.

• Recommendation: a tool box talk is provided to all contractors and site personnel on Day 1 to inform of environmental protection measures to be employed across the site. Reason: to avoid localised impacts on habitats and the species that use them.

HAVS MONITORING SCHEDULE

Site Address:……

Client:…….

Job No. …….

Date	Exposure time	Tool	Max. trigger time	Operator / Sign

Vibration

Machine	**Vibration Magnitude**	**Exposure Action Value**	**Exposure Limit Value**
Disc Cutter	1.4 m/s2	3 Hours 13mins	13 Hours 19mins
Impact Wrench	11 m/s2	25 Mins	1 Hour 39 Mins
110V Max Drill	11 m/s2	25 Mins	1 Hour 39 Mins