

C&S Energy BESS

Condition 10 – Construction Method Statement - Pre-Commencement Planning for the 300MW/624MWh BESS Project

Contract Name:	C&S Energy BESS
Address:	Rownall Road, nr Werrington, Stoke-on-Trent ST9 0BS
Ameresco Doc Ref	AME- BE-XX-XX-PL-0812



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Document Revision History:

Issue	Date	Purpose	Rev	Prepared	Checked	Approved
1	07/06/2024	Initial Issue	0	GT	JN	MS
2						
3						
4						

Ameresco Offices

Guildford office Ground Floor, Ranger House, Walnut Tree Close, Guildford, GU1 4UL

London office Halkin Building, 4th Floor 1-2 Paris Garden, Southwark, London SE1 8ND

Leeds office 1st Floor, Goodbard House, 15 Infirmary Street, Leeds, LS1 2JP

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C - Site works specific RAMS – Wheelwash offloading and installation and set- up.

D - Site temp welfare layout drawing inc. parking (completed welfare & Access Area).

E – Wheelwash details.

C&S Energy BESS

Construction Method Statement for the Initial Site Access and Welfare Set-up Works for the 300MW/624MWh BESS Project

Contract Name:	C&S Energy BESS
Address:	Rownall Road, nr Werrington, Stock-on-Trent ST9 0BS
Ameresco Doc Ref	3001816-AME-BE-XX-MS-HS-1006



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1	04/06/2024	Initial Issue	0	GT	OO	JN
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Ameresco Offices

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Construction Method Statement

Description of the Task/Activity:	Construction and civil works for the Initial Site Access, Establishment & Welfare facilities for the C&S Energy 300MW BESS Project, works will consist of the installation of the site/tree protection temporary fencing, construction of the site access belmouth and access road, welfare compound and car parking area, installation of the CDM welfare site cabins and associated facilities		
Project Name:	C&S Energy BESS	Project Ref:	3001816
Project Location	Rownall Road, nr Werrington, Stoke-On-Trent, ST9 0BS.	Start Date/Time:	17/06/2024
		Finish Date/Time:	19/07/2024
Personnel Competencies:	Person overseeing the works will hold SSSTS / SMSTS or NEBOSH All trade operatives to be CSCS qualified.		
Regulations	All works will be carried out in accordance with current legislative requirements. • Construction (Design and Management) Regulations 2015. • Control of Substances Hazardous to Health Regulations (COSHH) 2002. • Health and Safety (Consultation with Employees) Regulations 1996. • Health and Safety at Work etc Act 1974. • Lifting Operations and Lifting Equipment Regulations (LOLER) 1998. • Provision and Use of Work Equipment Regulations 1998 (PUWER)		
Site Access/ Inductions	All personal will attended the site induction.		
Essential Plant, Materials & Equipment:	(i.e.: access platforms/winches/ladders etc) See task specific RAMS		
Specific Identified Residual Hazards: (or refer to the task specific or COSHH risk assessment(s))	See task specific RAMS		

Temporary Supports and Props needed to facilitate the works:	(If none, state none.) N/A						
Method of Access and Egress to the work area/Storage	(i.e.: Ladders/MEWPS/Scaffold/Trestles/Step Ladder etc) N/A						
Fall Protection Measures: (Where work at height cannot be eliminated - consider both Personnel & Materials)	(i.e.: Guard Rails/Toe Boards/Brick Guards/Safety Harnesses/Exclusion Zones etc) N/A						
Hazardous Substances: (Attach COSHH Assessments and MSDS)	(i.e.: Lubricants/Solvents/Flammable Materials/Refrigerants/Welding Gases etc)						
	 Very Toxic	 Harmful/Irritant	 Corrosive	 Dangerous for the environment	 Oxidising	 Highly flammable	 Explosive
Applicable:	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
SWL's:	(Detail any limits on the loadings applicable to temporary plant/equipment or fixed elements of the structure where the work is taking place.)						
HAV's: (Manufactures instructions will identify vibration magnitude, this will allow identification of a trigger time.)	(Detail of any limits on the equipment in use to be made available below, trigger time allowance should enforced.)						
	Tool/Equipment:		Tool/Equipment:		Tool/Equipment:		
	Vibration Magnitude:		Vibration Magnitude:		Vibration Magnitude:		
	Trigger Time Allowance:		Trigger Time Allowance:		Trigger Time Allowance:		
	Tool/Equipment:		Tool/Equipment:		Tool/Equipment:		
	Vibration Magnitude:		Vibration Magnitude:		Vibration Magnitude:		
	Trigger Time Allowance:		Trigger Time Allowance:		Trigger Time Allowance:		
Personnel Protective Equipment:	 Safety Boots	 Hard Hats	 Safety Gloves	 Hearing Protection	 Respiratory Protection	 Eye Protection	Other: 1. Hi-Viz 2. full body harness
	Yes	Yes	Yes	No	No	Yes	

Minimum Acceptable Grade		ISO 20345: 2004	BS EN 397:1995	To Cut off level 3	BS EN 352 – 2: 2002	BS EN 149 FFP3	BS EN 166 Grade B	
Frequency of Use		At All Times	At All Times	At All Times	As Required	As Required	At All Times	
Emergency Procedures:		In the event of treatment being required the injured party would be taken to the nearest A & E dept detailed below. In the event of a fire all staff will head to the muster point at the site entrance.						
 First aid	First Aid	Name of On-Site First Aider:			Dan Mayer			
		First Aid Box Location:			Ameresco Site office			
		Location of Nearest Hospital:			Royal Stoke University Hospital, Newcastle Rd, Stoke-on-Trent ST4 6QG			
Sequence of Operations: (Specifying methods of , tools, materials and equipment utilised)		1. All personnel must complete a Ameresco induction. 2. All personnel are to read, understand and sign onto RAMS.						
		<u>Pre-site works</u>						
		Preparation and approval of the following documents; • This Construction Method Statement. • Road works permitting and applications (Section 50 & Minor Works Agreement). • Submission & receipt of F10 notification. • H&S file. • Construction Phase Plan. • Site works specific RAMS – Tree protection and temporary fencing installation, Belmouth (inc. traffic management) road and welfare hard standing area construction (Appendix A). • Site works specific RAMS – Welfare offloading, installation and set-up (Appendix B). • Site works specific RAMS – Wheelwash offloading and installation and set-up (Appendix C). • Site temp welfare layout drawing inc. parking (final Arrangement). The Site set up/construction works will be carried out as follows; • Delivery & installation of the tree protection fencing. • Delivery & Installation of the temp welfare area fencing. • Installation of site signage.						

- Delivery & Installation of temp traffic management and signage on the public highway.
- Construction of the site access belmouth.
- Construction of the site access road and welfare hard standing area.
- Delivery and installation of the welfare cabins, site barriers, security hut, temp. power genset, water bowser and waste receptor.
- Delivery and installation of the Wheelwash.
- Delivery of waste skips.

During the site set-up works the following would apply/happen

- The personnel welfare facilities would consist of a mobile 'groundhog' and toilet unit. These would be utilised until the main welfare set-up has been installed.
- Vehicle's onsite during this phase of the works would be kept to a minimum, parked on the field adjacent to the site welfare – no parking would be allowed on the public highway.
- A wheelwash would not be installed on site until the access road/welfare area has been completed, to keep the public highway clear of mud etc we would utilise a road sweepers as required.
- The excavated spoil would be stored in the same field to the west of the welfare area (see attached drawing), this spoil would be used in the future for the construction of the site bunds and landscaping purposes.
- Regular (daily) road sweeps of the public highway would be carried out during this initial phase of works.
- 'Groundhog' units would be delivered by towing and would be driven into position and secured.
- Tracked plant would arrive on trailers and be unloaded via proprietary ramps by driving.
- Construction materials – stone etc. would be delivered by tipper truck and unloaded into the location of works.
- Skips would be unloaded straight into position.

Once the main site welfare facility has been installed then the 'groundhog unit would be removed.

Supporting Documents

Appendix

- A - Site works specific RAMS – Tree protection and Temporary fencing Installation, Belmouth (inc. Traffic management) road and welfare hard standing area construction.
- B - Site works specific RAMS – Welfare Offloading, installation and set-up.
- C - Site works specific RAMS – Wheelwash offloading and installation and set- up.
- D - Site temp welfare layout drawing inc. parking (completed welfare & Access Area).
- E – Wheelwash details.

All RAMS to be updated once final details have been confirmed.

Risk assessments/ COSHH/ Controls	The Risk Assessments that are included and attached as part of the task specific Method Statement/Risk Assessments for the work activity detailed are included in the documents in the appendix.
Declaration of Acceptance.	I have read and understand the above method statement and agree with the proposed sequence of procedures required to complete the task. Supervisor: Name:..... Signature:..... Date:..... Operatives Name:..... Signature:..... Date:..... Name:..... Signature:..... Date:..... Name:..... Signature:..... Date:..... Name:..... Signature:..... Date:..... Name:..... Signature:..... Date:..... Name:..... Signature:..... Date:..... Name:..... Signature:..... Date:..... Name:..... Signature:..... Date:..... Name:..... Signature:..... Date:..... Name:..... Signature:..... Date:..... Name:..... Signature:..... Date:..... Name:..... Signature:..... Date:..... Name:..... Signature:..... Date:.....
Monitoring and Alteration of Method Statement	<i>N/B The Charge hand will be responsible for the daily monitoring of the method statement to ensure it is being adhered to by their operatives. He will also ensure it is relevant to the works being undertaken. In the event of the nature and scope of works requiring the method statement to be changed. This will be the responsibility of The Construction Manger following consultation and agreement with The Charge Hand to ensure the proposed changes does not compromise the safety of other site users.</i>

All work will be undertaken by qualified competent persons with experience of the type of work described above, and in all cases in full accordance with safety procedures specified in the company’s Health and Safety Policy.

Prepared by:

Position: Project Manager

Date:

Checked by:

Date:

Appendix A - Site works specific RAMS

Tree protection and Temporary fencing Installation,
Belmouth (inc. Traffic management) road and welfare
hard standing area construction.

Mayer Earthworks Ltd

PROJECT: C&S Energy BESS Initial Site Access & set-up works

CONTENTS:

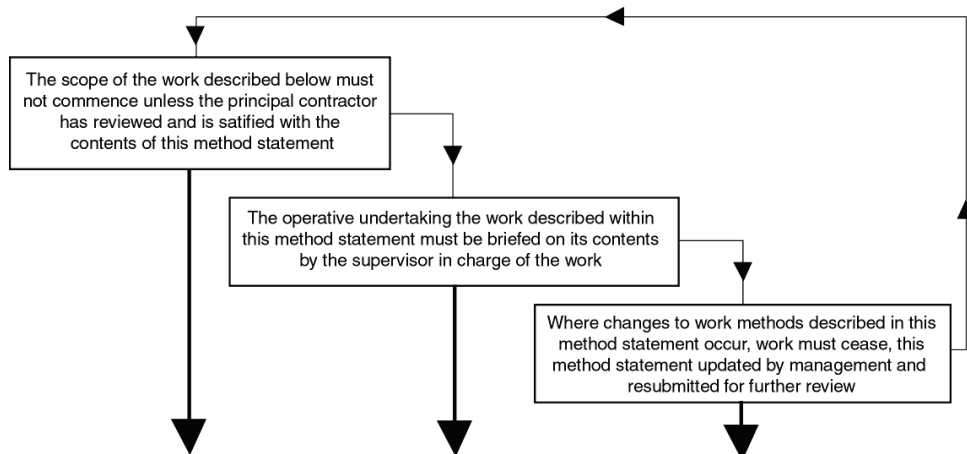
<u>Item</u>	<u>Title</u>
1	Scope of works / site specifics including project information
2	Parties involved
3	Consultation
4	Welfare
5	Plant & Equipment
6	Fire
7	Materials
8	Traffic Management
9	Sequence of work
10	Associated Risk Assessments
11	Site specific arrangements
12	Technical information
13	Emergency Arrangements
14	PPE
15	Supervision
16	Training
17	Housekeeping
18	Environmental & Health Controls
19	Briefing Register

Person compiling Construction Phase Plan: D Mayer

Signed: _____

Date compiled: June 2024

Method Statement



1. Scope of Work

The purpose of this Method Statement is to provide information on the safe procedures to be followed whilst undertaking works for: Ameresco. The works include enabling works for a new battery storage facility

1. Erection of Heras fence to perimeter of work area (approx. 370m) and tree root protection Fencing (approx. 175m).
2. Excavate incoming roadway 200m long x 10m wide(2000m²), store material on site in heaps
3. Excavate welfare area 1500m², store material on site in heaps
4. Install geo textile membrane
5. Install stone subbase.
6. Install road kerbs.
7. Create new incoming bell mouth to highway spec including tie in to highway
8. Install tarmac to half of the roadway (200m long 5m wide)

Phasing and lead in times:

The works are to commence 17th June 2024, target completion – end July 2024.

2. Welfare

Welfare

Welfare/groundhog unit provided by Mayer Earthworks will be located in the works compound until the main site office and welfare are established.

3. Plant and Equipment

Plant and equipment to be used will include the following:

14ton excavator
22ton excavator
Dumpers
Rollers
Hand tools
Welfare Ground Hog
Tarmac paver

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Method Statement

Heras Fence
Road sweeper

4. Materials

Stone sub base
Geo Textile Membrane
Road Kerbs
Tarmac
Heras Fence

5. Traffic Management

The location of the works area is west of Rownall road. No plant is to be moved / used outside of the work zone. All plant movements shall be under the control of banksmen.

An approved traffic management system will be provided (see attached drg. RHTM/RJA/4719/001).

6. Sequence of Work To be read in conjunction with the scope of works and drawings

Arrival on site, inductions, briefings of works and associated risk assessments. All personnel are to separately sign acknowledgement of the induction, and RAMS

Site Induction shall include;

- Access arrangements plan
- Additional works erection of Heras fence to perimeter of work area 370m and tree root protection zones 175m
- Construction of access belmouth
- Traffic, parking and pedestrian arrangements
- Welfare & smoking arrangements
- Emergency arrangements; Fire, injury and first aid.
- Accident and near miss reporting.

Overview of site hazards and control measures, including

- Vehicle/ plant movements and pedestrian contact
- PPE relevant to the above

Installation of Heras fence to the perimeter of the works as per drawing 3001223-AME-XX-XX-DR-CV-0001. All Heras fence to be double clipped and ensure feet position do not pose potential trip hazards. Fix site notices to the heras fence.

- The fencing/feet and clips shall be unloaded via Hiab as close to their final location as possible. Awareness of the public and 3rd parties shall be maintained at all times. Guardsmen if possible, shall prevent public from crossing the route of access whilst the fencing and feet are being unloaded
- A foot shall be placed on the floor adjacent to the site perimeter, a Heras panel shall be inserted into the foot, this will take two people, the free end of the fencing shall be inserted into another foot
- The next panel shall be inserted into the foot and clipped to the existing panel with two clips – top and bottom, ensuring the fastenings of the clips are facing towards the inside of the fencing
- Continue this until all the panels are secured together, following the side of the building

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Method Statement

- NB If possible ensure all feet are placed in the direction of the fencing to reduce trip hazards, If they must protrude from the fencing a further zone may need to be implemented to reduce trip hazards
- In the areas where the fencing is also being utilised as Tree Root Protection additional stabilisers will be installed to each panel and fixed using proprietary fixing pegs.

Check of site access/egress and security from 3rd parties. CAT scan whole area prior to start

Transport all equipment to the work area by mechanical means where possible thus reducing any manual handling. This can be in the form of forklift, telehandler, dumper or wheel barrow for small equipment.

Any service plans will review and area shall be CAT scanned and any identified services marked – no mechanical digging within 2m.

Excavate incoming Belmouth & roadway area – approx. 200m long x 10m wide (2000m²) using 360 excavator and dumpers, store material on site storage area in heaps, level off to required level, compact as required.

Where the road excavation cuts into the hill side (west end of the access road) the sides of the excavations will be graded to create a batter – grades would be 1;2 or 1;3 depending on position of the batter on the road.

Once excavation is complete the geo textile shall be laid and stone subbase filled in on top. Sub base to be rolled and compacted to the required thickness and specification.

The process above shall be repeated for the welfare area - Excavate welfare area 1500m², store material on site in heaps, level off to required level, compact as required.

Incoming bell mouth to be completed to highway finish tarmac spec including tie in to the existing highway and associated drainage channel and kerbing, kerbs to be installed using a hydraulic grab

On completion of the belmouth and road subbase works, Install highway finish tarmac to the permanent side of the access roadway up to the main site entrance (approx. 200m long * 5m wide)

7. Associated Risk Assessments

List all Risk Assessments (including COSHH etc) associated with the work and attach copies to this statement:

RA -003, 004, 005, 007, 009, 012, 013, 014, 047a&b, 144, 200, 236, 240

8. Site Arrangements

Work at Height

Work at height for this project shall be in relation to operatives in the plant Accessing/egressing the plant

Excavations

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The overall excavation shall be 200m long, 10m wide (depth varies dependant on the topography of the land (max 500mm D), Daily inspections shall be undertaken by the site manager and records retained.

Air monitoring at the base of the excavation shall be undertaken each morning prior to any operatives entering the excavated areas and a monitor shall remain operational throughout the works.

The edge of the excavation shall be protected by the sheet piles protruding 1m higher than the top of the excavation and clear signage to entrance doors informing of deep excavations.

Collapse of walls/ Support of excavation sides

Daily checks shall be undertaken by the site manager prior to entering the excavation area

9. Emergency Arrangements

First Aider's name: D Mayer

First Aid kit located: Site Office

Nearest A&E Unit: Royal Stoke
Newcastle Road
ST4 6QG

A&E Telephone No 01782 715444

FIRE:

- All staff are to be briefed via induction training on site specific fire prevention:
- permit to work processes
- restricted areas
- correct storage
- No smoking rules etc.
- emergency evacuation procedures (fire alarm, means of escape, assembly
- point etc.)

Fire point location: As per Bess Site

Method Statement

Casualty recovery procedures:

- All personnel are to sign on and off site daily.
- The client's emergency procedures are to be adhered to and must be made available prior to commencement of work.
- The emergency procedures are to be displayed in a prominent location and persons made aware of such during the site induction.
- The client is to ensure appropriate arrangements are made in relation to the works and advise the contractor of such.
- In the event of an accident or emergency all works are to stop, the authorised responsible person is to take control of the area directing all personnel to a safe location and contacting the relevant emergency authorities.

10. PPE

All our personnel are to abide by the site rules with regard to PPE, i.e. hard hats; hi- visibility clothing; safety footwear etc.

They will be issued with and are instructed to wear any other relevant PPE necessary for a particular task where identified within the associated risk assessments. In this task, Hard hat, face mask, gloves

11. Supervision

The works will be supervised by our site supervisor D Mayer who will co-ordinate the activities in progress. The Site Supervisor is also responsible for briefing our operatives on this method statement and the associated risk assessments.

12. Training

Upon arrival on site, induction training will be provided by site management.

All operatives involved will be briefed on the contents of this method statement and associated risk assessments by our supervisor.

Operatives engaging in these works will hold current certificates of training in the following:

Name	Training / Certification	Expiry Date
S Mayer	CSCS/CPCS SPA-MPQC SSSTS,	
M Reed	CPCS/CSCS SSSTS	
L Butler	CPCS/CSCS	
P Williamson	CPCS/CSCS SPA-MPQC	

Method Statement

L Maddison	CSCS	
N Bourne	CSCS	
J Taft	CSCS/CPCS	
M Wild	CSCS/CPCS	
A Cunliffe	CSCS/CPCS	
Copies of relevant certificates listed above are to be attached to this method statement, i.e. CSCS, CPCS, IPAF, Paslode Nail Gun, Abrasive Wheels, NRSWA etc.		

13. Housekeeping

All waste materials will be regularly collected during the course of the works, at least at the end of each working day, and removed to an authorised disposal facility.

The site will be secured at night, all plant disabled and all hazardous substances securely locked away or removed.

14. Environmental and Health Controls: List controls against the relevant section, where applicable:

Waste:	Spoil shall be stored in the designated area identified on the site plan. Other waste shall be removed from the site
Dusts:	Remove at source where possible with extraction on tools, use of HEPA Filter vacuum, dampening down, sheeting of materials (sand, soil, aggregate and spoil. Use of RPE for operatives if dust levels are still evident Instruction and proof of face fit testing where possible.
Noise:	To be kept to an absolute minimum and only permitted when it cannot be controlled in any other manner, i.e. the cutting of concrete based product and the use of plant/machinery.
Vibration:	To be assessed and kept to a minimum however, our vibration issues would be health issues rather than environmental and this would be controlled by assessment and work control.
Storage of fuels / oils:	Bunded and kept to a minimum with spill control etc.
Location of spill kit:	Site Vehicles
Protected wildlife:	Not anticipated with this
Public nuisance:	The works will be undertaken in a secure area away from the public and noise issues will be kept to a minimum.
Other: (please state)	Road sweeping – At the end of each working day the public highway adjacent to the site will be swept.

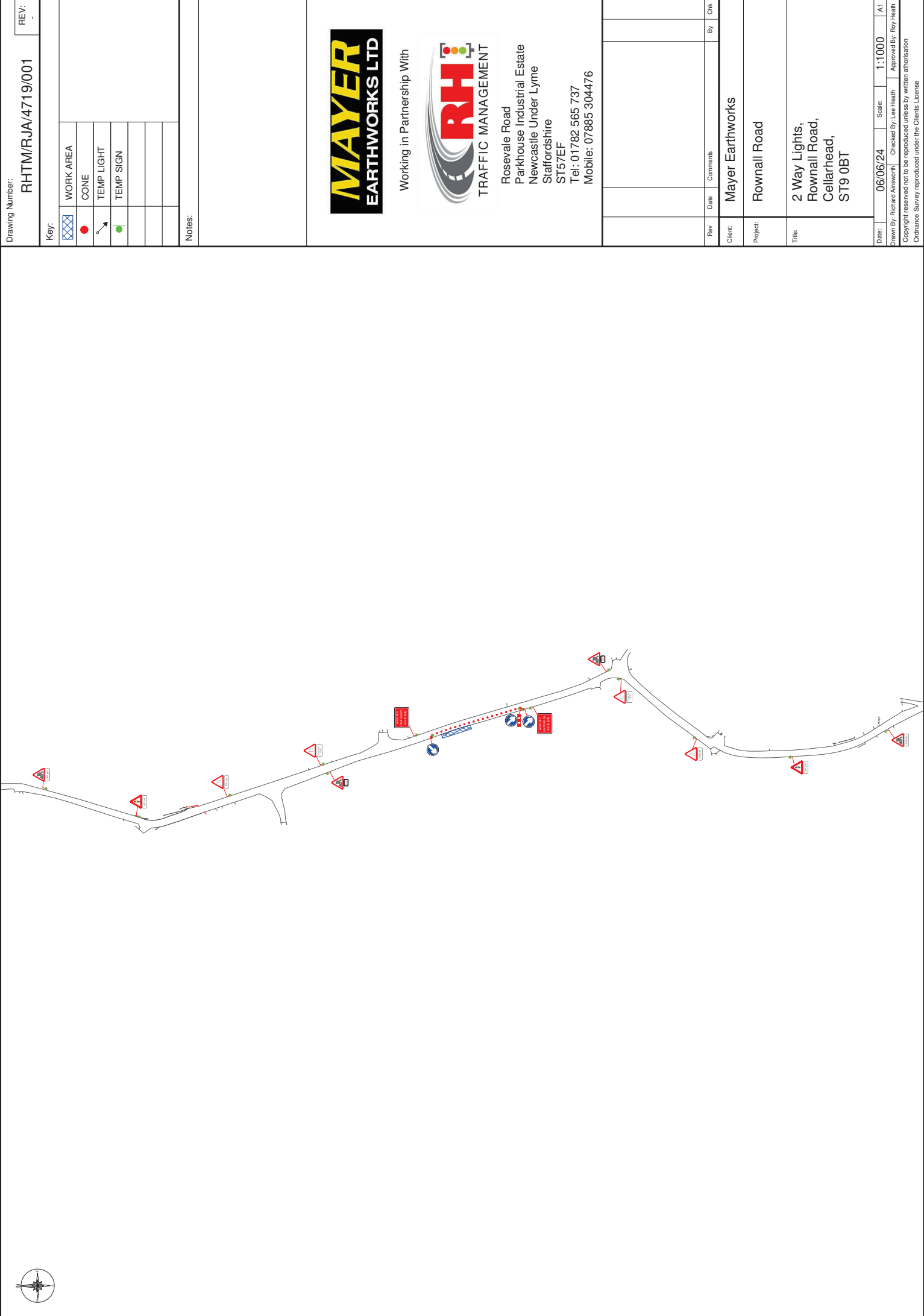
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Method Statement

15. Briefing Register

By signing below, I declare that I have read, understood and accept responsibility for carrying out the works as detailed in this method statement:

Name - Site operative (please print)	Signature - Site operative	Date



Drawing Number: RHTM/RJA/4719/001		REV: -
Key:		
	WORK AREA	
	CONE	
	TEMP LIGHT	
	TEMP SIGN	
Notes:		

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Working in Partnership With



TRAFFIC MANAGEMENT

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Rev	Date	Comments	By

Client:	Mayer Earthworks
Project:	Rownall Road
Title:	2 Way Lights, Rownall Road, Cellarhead, ST9 0BT

Date:	06/06/24	Scale:	1:1000	A1
Drawn By: Richard Answorth		Checked By: Lee Heath		Approved By: Roy Heath
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RISK ASSESSMENT 003 – Ground Clearance

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Task / Activity: GROUND CLEARANCE							Assessment Reference: 003		
ACTIVITY	PERSONS AT RISK	SIGNIFICANT HAZARDS	RISK			CONTROL MEASURES	RESIDUAL RISK		
			S	P	RR		S	P	RR
Ground survey	E	Slips, trips and falls leading to physical injuries	3	3	9	- Areas that need to be cleared to be examined for obstacles such as building debris, stones and pebbles etc. by the work supervisor and staff. - All obstacles to be removed from site accordingly. - Litter to be collected using a litter picker. - Staff carrying out the work to be issued with appropriate PPE such as safety boots, gloves and overalls.	3	1	3
Grass cutting using strimmer's	E	Physical injuries from misuse of equipment	3	4	12	- Staff who use strimmer's to cut grass to be suitably trained, competent and supervised. - Staff carrying out the work to be issued with appropriate PPE such as safety boots, gloves, eye protection, hearing protection and overalls. - Staff to check the condition of the strimmer before use. - Faulty equipment not to be used and to be reported to the supervisor.	3	2	4
Operating petrol type strimmer's	E	Fires causing severe burns	3	5	15	- Only trained and competent staff to use petrol strimmer's. - When petrol strimmer's are to be used then a fire extinguisher to be available at the filling point. - Staff to allow machinery to cool down before refuelling. - Staff to use anti-spill fuel cans when refuelling machinery. - Staff to be trained in emergency control of fuel spillages. - Staff to wear suitable gloves when refuelling. - Refuelling to take place away from grassed areas. - Staff to carry out daily checks to confirm strimmer is not leaking fuel or oils.	3	3	9

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 003 – Ground Clearance

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Use of brush cutters	E	Physical injuries from misuse of equipment	3	4	12	- Staff who use brush cutters to be suitably trained, competent and supervised. - Staff carrying out the work to be issued with appropriate PPE such as safety boots, gloves, eye protection, hearing protection and overalls. - Staff to check the condition of the brush cutter before use. - Faulty equipment not to be used and to be reported to the supervisor.	3	2	6
Operating petrol type brush cutters	E	Fires causing severe burns, physical injuries from constant use of equipment	3	5	15	- When petrol brush cutters are to be used then a fire extinguisher to be available at the filling point. - Staff to allow machinery to cool down before refuelling. - Staff to use anti-spill fuel cans when refuelling machinery. - Staff to be trained in emergency control of fuel spillages. - Staff to wear suitable gloves when refuelling. - Refuelling to take place away from grassed areas. - Staff to carry out daily checks to confirm the equipment is not leaking fuel or oils.	3	3	9
Vibration when using strimmer's and brush cutters	E	Excessive vibration may cause vibration white finger and other physical conditions	3	3	9	- Daily maintenance checks to be carried out by staff who should report wear, excessive imbalance of machinery etc. - Staff to report any tingling sensations in hands to supervisor. - Staff are not to exceed trigger times as per label on the machinery.	3	1	3
Noise from strimmer's and brush cutters	E P	Excessive noise may cause hearing loss	3	3	9	- Staff to be issued with hearing protection. - Supervisors to ensure that hearing protection is worn. - Daily maintenance checks to be carried out by staff to report wear and excessive noise from machinery. - Where necessary, health surveillance to be carried out to identify levels of noise induced hearing loss.	3	1	3

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 003 – Ground Clearance

Project: C&S Energy BESS - Initial Site Access and Welfare Set-up			Revision: 1	Date: 12/06/24	Page: 3 of 5				
Contact with moving machinery parts	E	Cuts to hands or feet	3	4	12	- Staff not to put hands or feet under or into the cutting deck until the machine has stopped and the blades have finished rotating. - Staff to ensure safety devices and guards are in place and functional before use. - Staff to clear blockages in the cutting deck only when the machinery has stopped rotating and has been switched off with keys (if applicable) removed.	3	2	6
Working on uneven ground	E	Slips, trips and falls	3	3	9	- Staff to take care when working on uneven ground. - Staff not to become distracted by surroundings or other persons in the area. - Staff to take care when working on banked areas particularly in wet, frosty and icy conditions. - Staff not to operate equipment if the ground conditions are unsafe to be on.	3	1	3
Use of hand tools such as hedge cutters, spades, pruning saws etc.	E	Cuts to hands and arms	3	3	9	- Staff to be competent to use hand tools during ground clearance work. - Staff to wear the relevant PPE when using hand tools during ground clearance work.	3	1	3
Management Should any equipment be issued, it must only be issued to trained persons issued with all necessary PPE and all personnel trained to identify equipment inspection and reporting procedures and any hazards. No young persons are to be permitted access to this work practice or equipment.									

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 003 – Ground Clearance

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PPE Requirements (PPE ASSESSMENT)

In many instances, you will be able to reduce risks further by asking staff/others to wear/use PPE. You should identify which items are required for the task here.

Note. PPE must only be considered as, when other control measures, such as guarding, local exhaust extraction, preventing noise at source, eliminating the need to work at height etc. are not possible. PPE should always be considered as a last resort option. PPE should only be worn when there is reasonable justification for doing so.

Type of PPE:								
	Head (BS EN 397)	Foot (BS EN 345-1)	Eye (BS EN 165:2005)	Hand (BS EN 420:2003)	Hearing (EN 352-1)	High-visibility Vest (BS EN 471)	RPE	Fall arrest (BS EN 361)
	✓	✓	✓	✓	✓	✓		

Any additional PPE requirements?

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 003 – Ground Clearance

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Site Amendments: The responsible person on site must utilise this section for additions to the assessment.

Note for Managers / Supervisors:

- You must check that the control measures are relevant to the way the work is going to be done.
- Check the box confirming either that generic hazards and control measures are appropriate or that site specific amendments need to be considered.
- Any hazards not already highlighted must be added in the Site Amendments section (above) along with the additional measures required to control these hazards.
- Make sure everyone involved in the operation is fully aware of the contents of this Risk Assessment (where necessary use the reverse of the form to record the briefing).
- Please sign the assessment form:

Name: Signed: Date:

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 004 – Underground Services

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Task / Activity: UNDERGROUND SERVICES							Assessment Reference: 004		
ACTIVITY	PERSONS AT RISK	SIGNIFICANT HAZARDS	RISK			CONTROL MEASURES	RESIDUAL RISK		
			S	P	RR		S	P	RR
Preparing to dig holes or trenches	E	Failure to obtain plans and maps from utility service providers may lead to contact with buried services	4	4	16	- Plans and maps to be obtained before any work commences. - Where any doubt exists regarding the location of any services the utility company to be contacted and asked to visit site.	3	2	6
As above	E	Failure to use a locating device may lead to contact with buried services	4	4	16	- A locating device (such as a CAT - cable avoidance tool) to be used to locate the route of buried services before excavation starts and throughout excavation work. - Routes of services to be marked on the ground surface with either waterproof crayon, chalk or paint.	3	2	6
Digging holes and trenches by hand	E P	Use of power tools in areas where services are suspected may cause damage to buried services and injuries to user	4	4	16	- Where a locator indicates the presence of buried services all digging to be undertaken carefully by hand. - Additional care to be taken when using picks or insulated crowbars. - Staff to wear the relevant PPE, e.g. gloves and protective footwear.	3	2	6
Digging holes and trenches using excavating machinery	E	Failure to detect buried services may lead to excavator coming into contact with them	4	4	16	- Before an excavator is used, trial holes to be dug by hand. - Excavators not to be allowed to work within a 300mm radial distance of electricity cables. - All staff to be kept clear of the bucket and excavator whilst it is working in the vicinity of electric cables.	3	2	6
Digging holes or trenches (general)	E	Breaking up concrete that is surrounding an electricity cable may lead to damage and electric shock	4	4	16	Where concrete surrounding an electricity cable is to be broken up then the utility company to be asked to turn off the power before work commences.	3	2	6

At Risk	Severity	Probability	Risk Rating		NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5	LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14	MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25	HIGH	
P Public	4 Major Injury	4 Very Likely			
A All	5 Death	5 Virtually Certain			

RISK ASSESSMENT 004 – Underground Services

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As above	E	Damage to services during digging operations may lead to a serious risk of injury	3	5	15	- If accidental damage occurs to a buried service, then the area to be left clear and the utility company contacted immediately to carry out any necessary repairs. - When damage is suspected the utility company to be asked to verify the safety of the excavation before any further work takes place.	3	2	6
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Management

Should any equipment be issued, it must only be issued to trained persons issued with all necessary PPE and all personnel trained to identify equipment inspection and reporting procedures and any hazards. No young persons are to be permitted access to this work practice or equipment.

PPE Requirements (PPE ASSESSMENT)

In many instances, you will be able to reduce risks further by asking staff/others to wear/use PPE. You should identify which items are required for the task here.

Note. PPE must only be considered as, when other control measures, such as guarding, local exhaust extraction, preventing noise at source, eliminating the need to work at height etc. are not possible. PPE should always be considered as a last resort option. PPE should only be worn when there is reasonable justification for doing so.

Type of PPE:								
	Head (BS EN 397)	Foot (BS EN 345-1)	Eye (BS EN 165:2005)	Hand (BS EN 420:2003)	Hearing (EN 352-1)	High-visibility Vest (BS EN 471)	RPE	Fall arrest (BS EN 361)
	✓	✓	✓	✓		✓		

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 004 – Underground Services

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Any additional PPE requirements?
Site Amendments: The responsible person on site must utilise this section for additions to the assessment.
Note for Managers / Supervisors: - You must check that the control measures are relevant to the way the work is going to be done. - Check the box confirming either that generic hazards and control measures are appropriate or that site specific amendments need to be considered. - Any hazards not already highlighted must be added in the Site Amendments section (above) along with the additional measures required to control these hazards. - Make sure everyone involved in the operation is fully aware of the contents of this Risk Assessment (where necessary use the reverse of the form to record the briefing). - Please sign the assessment form: Name: Signed: Date:

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 005 - Groundworks

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Task / Activity: GROUNDWORKS / EXCAVATIONS							Assessment Reference: 005		
ACTIVITY	PERSONS AT RISK	SIGNIFICANT HAZARDS	RISK			CONTROL MEASURES	RESIDUAL RISK		
			S	P	RR		S	P	RR
Service Locations	E	Electrocution Explosion	5	5	25	- Review of service drawings and plans - CAT Scan of all areas within the works area - Marking and identifying of services - Hand Dig only within 1metre - If located protection of existing services from damage accidental contact	5	3	15
Carrying out excavation work by hand	E C	Excavation may collapse injuring staff if not adequately shored up	4	5	20	- Where possible, excavations to be carried out using machinery. - If being dug by hand, then sides of excavations to be adequately shored up using timber, trench boxes or hydraulic walling. Alternatively, the sides should be battered to a safe angle.	3	2	6
Staff working in excavations	E C	Material falling into excavations may cause injury to staff	3	3	9	- Protect edges of excavations with toe boards. - Spoil and materials to be kept away from excavation edges. - Staff to wear safety helmets when working in excavations.	3	1	3
Other staff and vehicles working in the vicinity of excavations	E C	Vehicles falling into excavations may cause serious injury to staff	3	5	15	- If the excavation is 2m or deeper, substantial barriers to be provided, e.g. guard rails and toe boards. - Vehicles to be kept away from excavations wherever possible. Use brightly painted baulks or barriers where necessary. - Where vehicles have to tip materials into excavations, stop blocks to be used to prevent them from over-running. Remember that the sides of the excavation may need extra support.	2	2	4
Staff working in and around excavations	E	Staff may be injured by being hit by moving plant	3	4	12	Staff to be kept separate from moving plant such as excavators. Where this is not possible, safe systems of work to be used to prevent people being struck.	2	2	4

At Risk					Risk Rating			NOTE	
E	Employees	1	No Injury	1	Very Unlikely	1 – 5	LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.	
C	Contractors	2	Minor Injury	2	Unlikely	6 – 14	MEDIUM		
V	Visitors	3	+7 Day Absence	3	Likely	15 – 25	HIGH		
P	Public	4	Major Injury	4	Very Likely				
A	All	5	Death	5	Virtually Certain				

RISK ASSESSMENT 005 - Groundworks

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Carrying out excavation work	E C	Staff coming into contact with buried electrical services may be seriously injured or killed	3	5	15	- No excavation work to commence until plans of buried services are made available. - Locating equipment to be used before any excavation work commences. - Staff to be trained in safe digging practices.	2	2	4
Carrying out work in excavations	E C	Staff working in excavations may be overcome by fumes from vehicle or plant exhausts	3	3	9	- Diesel engine equipment such as generators or compressors not to be sited at, or near, the edge of an excavation unless fumes can be ducted away or the area can be ventilated. - Staff to evacuate excavations at the first sign of the presence of fumes and report to their supervisor.	2	2	4
Preparing to start work in an excavation	E C	Excavation may collapse if in poor condition, injuring staff	4	5	20	A competent person to inspect all excavations before work commences or after any event likely to affect the strength or stability of the excavation.	3	2	6
Walking in the vicinity of excavations in public areas	E C V	Pedestrians falling into excavations causing personal injury	3	4	12	- All excavations in public places to be fenced off to prevent pedestrians and vehicles falling into them. - Where children might get onto a site out of hours, precautions to be taken (e.g. backfilling or securely covering excavations) to reduce the chance of them being injured.	2	2	4
Vehicle Movements	E C V					SEE RA 009 Vehicular Movement			
Underground Services	E C V					See RA 004 Underground Services			
Contaminated Land									

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 005 - Groundworks

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Management Should any equipment be issued, it must only be issued to trained persons issued with all necessary PPE and all personnel trained to identify equipment inspection and reporting procedures and any hazards. No young persons are to be permitted access to this work practice or equipment.

PPE Requirements (PPE ASSESSMENT) In many instances, you will be able to reduce risks further by asking staff/others to wear/use PPE. You should identify which items are required for the task here. Note. PPE must only be considered as, when other control measures, such as guarding, local exhaust extraction, preventing noise at source, eliminating the need to work at height etc. are not possible. PPE should always be considered as a last resort option. PPE should only be worn when there is reasonable justification for doing so.
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Type of PPE:								
	Head (BS EN 397)	Foot (BS EN 345-1)	Eye (BS EN 165:2005)	Hand (BS EN 420:2003)	Hearing (EN 352-1)	High-visibility Vest (BS EN 471)	RPE	Fall arrest (BS EN 361)
	✓	✓	✓	✓		✓		

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 005 - Groundworks

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Any additional PPE requirements?

Site Amendments:

The responsible person on site must utilise this section for additions to the assessment.

Note for Managers / Supervisors:

- You must check that the control measures are relevant to the way the work is going to be done.
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- Please sign the assessment form:

Name:

Signed:

Date:

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
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P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 007 – Construction Site Excavations (Large)

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Task / Activity: CONSTRUCTION SITE EXCAVATIONS							Assessment Reference: 007		
ACTIVITY	PERSONS AT RISK	SIGNIFICANT HAZARDS	RISK			CONTROL MEASURES	RESIDUAL RISK		
			S	P	RR		S	P	RR
Excavations - general	E C	Failure to plan excavations may lead to accidents to staff resulting in serious injuries	3	4	12	- All excavation work to be planned by a competent person. - Plans to be obtained from utility companies for all buried services prior to work commencing. - A safe system of work to be decided on before work commences and to be discussed with staff on site.	3	2	6
Setting out excavation work	E C	Failure to set out excavation work so it may conflict with other work causing accidents to staff resulting in serious injuries	3	4	12	- All excavation work to be set out and access routes discussed with staff. - Routes to be marked out for the use of excavating machinery and to be clear of pedestrian areas. - Pedestrian routes to be clearly set out and fitted with barriers/ fencing. - An accurate location of all underground services to be carried out by a competent member of staff using cable location devices and plans prior to opening any excavations. - All overhead power lines in the vicinity to be marked off using "goal posts" to prevent contact by excavating machinery.	3	2	6
Excavations using machinery	E C	Failure to use excavating machinery correctly may lead to overturning causing serious injuries or death to the operator	3	5	15	- Only trained, certified and authorised staff to operate excavating machinery. - Wheel stops to be used when tipping back fill into excavations when using dumper trucks. - Excavating machinery etc. to be kept away from the edges of excavations and to use planned traffic routes only. - Where considered necessary a banksman to be provided to direct machinery operations.	3	2	6

At Risk	Severity	Probability	Risk Rating		NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5	LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14	MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25	HIGH	
P Public	4 Major Injury	4 Very Likely			
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RISK ASSESSMENT 007 – Construction Site Excavations (Large)

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Working in or near excavations	E C	Staff working in or near to excavations are at risk from falls or crushing if trenches are not securely fenced off and the sides collapse	3	5	15	- All excavations to be fitted with edge protection, i.e. double guard rails and toe boards. - All excavations to be shored up to prevent the collapse of the trench sides. A proprietary support system is to be used and the method of use to be agreed on site before excavation work begins.	3	2	6
Working in the vicinity of overhead power lines	E C	Contact with overhead power lines may lead to electric shocks causing serious burns or death	3	5	15	- Where overhead power lines exist, the site supervisor to liaise with the National Grid and the local electric supply company for advice on safe heights and distances. - Where it is unavoidable to cross the path of overhead power lines, a safe route is to be designated and agreed. This is to be marked using "goal posts" to restrict the height of any equipment that may cross below. - All such routes to be discussed with plant operators prior to access on site.	3	2	6
Access and egress from excavations	E C	Failure to provide adequate access and egress points from the excavation may lead to falls etc. causing physical injuries	3	4	12	- Safe means of access and egress to be provided to the excavation using ladders. - All ladders to be erected and positioned at an angle of 75 degrees or four metres up to one metre out at the base. - Ladders to be secured at the highest point with provision of at least 1.5 metres above the point of landing in order to provide an adequate handhold.	3	1	3
Stockpiling of materials adjacent to excavations	E C	Materials stored too close to an excavation may cause it to collapse resulting in injuries to staff	3	5	15	Materials to be stockpiled clear of the excavations and to be at least 1.5 metres away from the excavation edges.	3	2	6
Protecting excavations from other people	V P	Failure to secure open excavations may lead to people falling into them resulting in physical injuries	3	4	12	- All excavations to be back filled as soon as possible after completion of the work. - Where excavations need to remain open, then they are to be adequately fenced off and/or covered to prevent access.	3	1	3

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
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RISK ASSESSMENT 007 – Construction Site Excavations (Large)

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PPE Requirements (PPE ASSESSMENT) In many instances, you will be able to reduce risks further by asking staff/others to wear/use PPE. You should identify which items are required for the task here. Note. PPE must only be considered as, when other control measures, such as guarding, local exhaust extraction, preventing noise at source, eliminating the need to work at height etc. are not possible. PPE should always be considered as a last resort option. PPE should only be worn when there is reasonable justification for doing so.

Type of PPE:								
	Head (BS EN 397)	Foot (BS EN 345-1)	Eye (BS EN 165:2005)	Hand (BS EN 420:2003)	Hearing (EN 352-1)	High-visibility Vest (BS EN 471)	RPE	Fall arrest (BS EN 361)
	✓	✓	✓	✓	✓	✓		

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
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P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 007 – Construction Site Excavations (Large)

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Any additional PPE requirements?

Site Amendments: The responsible person on site must utilise this section for additions to the assessment.

Note for Managers / Supervisors:

- You must check that the control measures are relevant to the way the work is going to be done.
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- Please sign the assessment form:

Name: Signed: Date:

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 009 Vehicular Movement

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Task / Activity: VEHICULAR MOVEMENT							Assessment Reference: 009		
ACTIVITY	PERSONS AT RISK	SIGNIFICANT HAZARDS	RISK			CONTROL MEASURES	RESIDUAL RISK		
			S	P	RR		S	P	RR
Vehicles entering or leaving premises	P	Risk of injury from vehicles if unseen by the driver	4	5	20	- Pedestrian and vehicle routes to be marked out to give segregation. - Where possible, barriers to be installed to prevent pedestrians from walking onto areas where vehicles manoeuvre. - Signs to be displayed to indicate the separate areas. - Banksman to be in place to control driver's actions.	3	3	9
Reversing vehicles on site	E C	Risk of injury from reversing vehicles on site	4	4	16	- Avoid the need for reversing by providing one-way traffic systems on site. - Prohibit non-essential staff in designated reversing areas such as loading bays etc. - Reversing only to be carried out with the presence of a second person or Banksman to control pedestrian traffic.	3	2	6
Vehicles driving on site where blind spots exist	E C	Risk of injury from vehicles where blind spots exist on site	3	4	12	- Use of fixed mirrors at blind spots to help driver visibility. - Signs warning of poor visibility to be displayed. - Drivers encouraged to travel slowly and to use their horn when negotiating blind spots.	3	2	6
Vehicles driving on site above speed limit	E C	Risk of injury or vehicle collisions if vehicles are driven too fast on site	4	4	16	- Speed restriction signs to be displayed at relevant points on site. - Ramps to be provided to control speed. - Disciplinary action to be taken against speeding drivers.	3	2	6
Private vehicles and delivery vehicles on site	E C	Risk of pedestrians or drivers being struck by vehicles	3	4	12	- Area set aside for the parking of private vehicles and clearly marked. - Where necessary height restriction to be installed to restrict usage to cars and light vans only. - Car parking areas to be clearly marked.	3	2	6

At Risk	Severity	Probability	Risk Rating		NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5	LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14	MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25	HIGH	
P Public	4 Major Injury	4 Very Likely			
A All	5 Death	5 Virtually Certain			

RISK ASSESSMENT 009 Vehicular Movement

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Loading or unloading vehicles	E C	Risk of physical injury when handling loads	3	4	12	- Vehicles to drive close to loading bay so they can be loaded or unloaded on the level where possible. - Fork lift trucks operated by trained drivers to be used for lifting heavy goods.	3	2	6
Driving from site onto the highway	P	Risk of an accident if awareness of other traffic or traffic speed is not observed	3	5	15	- Warning signs to be displayed for vehicles leaving the site. - Halt signs to be in place prior to entering onto the highway. - Drivers to be aware of any local conditions, e.g. blind bends, dual carriageways etc.	3	2	6

Management

Should any equipment be issued, it must only be issued to trained persons issued with all necessary PPE and all personnel trained to identify equipment inspection and reporting procedures and any hazards. No young persons are to be permitted access to this work practice or equipment.

PPE Requirements (PPE ASSESSMENT)

In many instances, you will be able to reduce risks further by asking staff/others to wear/use PPE. You should identify which items are required for the task here.

Note. PPE must only be considered as, when other control measures, such as guarding, local exhaust extraction, preventing noise at source, eliminating the need to work at height etc. are not possible. PPE should always be considered as a last resort option. PPE should only be worn when there is reasonable justification for doing so.

Type of PPE:								
	Head (BS EN 397)	Foot (BS EN 345-1)	Eye (BS EN 165:2005)	Hand (BS EN 420:2003)	Hearing (EN 352-1)	High-visibility Vest (BS EN 471)	RPE	Fall arrest (BS EN 361)
	✓	✓	✓	✓		✓		

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 009 Vehicular Movement

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Any additional PPE requirements?

Site Amendments:

The responsible person on site must utilise this section for additions to the assessment.

Note for Managers / Supervisors:

You must check that the control measures are relevant to the way the work is going to be done.

Check the box confirming either that generic hazards and control measures are appropriate or that site specific amendments need to be considered.

Any hazards not already highlighted must be added in the Site Amendments section (above) along with the additional measures required to control these hazards.

Make sure everyone involved in the operation is fully aware of the contents of this Risk Assessment (where necessary use the reverse of the form to record the briefing).

Please sign the assessment form:

Name:

Signed:

Date:

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 012 – Mobile Excavators

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Task / Activity:			MOBILE EXCAVATORS			Assessment Reference: 012			
ACTIVITY	PERSONS AT RISK	SIGNIFICANT HAZARDS	RISK			CONTROL MEASURES	RESIDUAL RISK		
			S	P	RR		S	P	RR
Delivering, unloading, reloading vehicle on site	E C	Mechanical failure; road traffic incident; contact with pedestrians others	3	5	15	50-point check to be completed prior to plant being loaded onto low-loader trailer. - Plant to be secured with ratchet strap, chains etc. at suitable fixing points. Process to be completed by trained and competent staff. - Vehicle to be driven to site with care. Road traffic laws to be followed at all times. - Suitable unloading area to be identified and agreed with client. - Ground conditions, overhead cables etc. to be checked by driver. - Unloading area to be secured to prevent unauthorised access. Area to be controlled by driver and plant operator (if on site). If necessary, cones and barrier tape to be used. - Process to be repeated when re-loading plant onto low-loader.	2	4	8

At Risk	Severity	Probability	Risk Rating		NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5	LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14	MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25	HIGH	
P Public	4 Major Injury	4 Very Likely			
A All	5 Death	5 Virtually Certain			

RISK ASSESSMENT 012 – Mobile Excavators

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Operating a mechanical excavator	E C	Overturning; mechanical failure; crashing into other vehicles/fixed objects; contact with pedestrians or others, injury to the operator (access/ egress)	4	5	20	• Only trained staff to be allowed to operate excavators - all operators must hold appropriate CPCS card for the plant. Operator to have CPCS card on their person at all times. • Operators to follow training and correct operating procedures for the vehicles at all times. This includes wearing seat belts, observing site speed limits, using designated traffic routes, using safety devices such as cameras, reversing warnings etc. • Operators to wear PPE identified as necessary for each site. Standard PPE to be worn: high visibility jacket/bib, hard hat, protective footwear. • Operator to check all safety features are in working order before starting work. • Area in which plant to operate to be secured with Heras/temporary fencing. "Warning Plant Operations" signs to be used. • Operator to check ground conditions suitability. • Service drawings/plans/CAT & Genny scan results to be checked. • Works schedule, method statement to be checked and agreed by all parties. • Excavators only to be used for their intended purpose. • When slewing in a confined area the selection of plant with minimal tail swing is preferred. Clearance of over 0.5m needs to be maintained between any part of the machine, particularly the ballast weight, and the nearest obstruction.	3	3	9
Use of attachments on excavators	E C	Mechanical failure; personal injury	4	3	12	• Only specified attachments to be fitted to excavators. • All attachments to be properly secured in accordance with the manufacturer's instructions. • Operators' training to include the methods for fitting attachments. • Quick hitches can be used to secure buckets to the excavator arm. Check that you are able to implement and manage any quick hitch used.	3	2	6

At Risk	Severity	Probability	Risk Rating		NOTE	
E Employees	1 No Injury	1 Very Unlikely	1 – 5	LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.	
C Contractors	2 Minor Injury	2 Unlikely	6 – 14	MEDIUM		
V Visitors	3 +7 Day Absence	3 Likely	15 – 25	HIGH		
P Public	4 Major Injury	4 Very Likely				
A All	5 Death	5 Virtually Certain				

RISK ASSESSMENT 012 – Mobile Excavators

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Use of excavators close to trenches	E C	Trench collapse; plant overturning; personal injury	4	5	20	- Excavator operators to be trained so that they only operate the machine at a safe distance from any un-shored trenches. - Operators to ensure that the ground adjacent to trenches is capable of withstanding the machine weight. - No excavation work using the machine to take place whilst others are working in trenches.	3	3	9
Parking of excavators	E C	Personal injury; damage to plant and property	3	3	9	- All operators to park excavators in the designated parking area. - Operators to remove keys from their machine and keep them secure. - Machines to be parked with their jib arm lowered to the ground.	2	1	2
Access and egress from plant cabin	E C	Falls, slips	3	4	12	- Only access and leave the vehicle by the designated steps/access facilities - Ensure steps are kept clean and mud build up is cleaned off - Keep boots as clean as possible to prevent mud build up in the treads - Do not climb on the vehicle	3	2	6
Working in the vicinity of overhead power lines	E C	Contact with overhead power lines may lead to electric shocks causing serious burns or death	3	5	15	- Where overhead power lines exist, the site supervisor to liaise with the National Grid and the local electric supply company for advice on safe heights and distances. - Where it is unavoidable to cross the path of overhead power lines, a safe route is to be designated and agreed. This is to be marked using "goal posts" to restrict the height of any equipment that may cross below. - All such routes to be discussed with plant operators prior to access on site.	3	2	6

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 012 – Mobile Excavators

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Management Should any equipment be issued, it must only be issued to trained persons issued with all necessary PPE and all personnel trained to identify equipment inspection and reporting procedures and any hazards. No young persons are to be permitted access to this work practice or equipment.

PPE Requirements (PPE ASSESSMENT) In many instances, you will be able to reduce risks further by asking staff/others to wear/use PPE. You should identify which items are required for the task here. Note. PPE must only be considered as, when other control measures, such as guarding, local exhaust extraction, preventing noise at source, eliminating the need to work at height etc. are not possible. PPE should always be considered as a last resort option. PPE should only be worn when there is reasonable justification for doing so.
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Type of PPE:								
	Head (BS EN 397)	Foot (BS EN 345-1)	Eye (BS EN 165:2005)	Hand (BS EN 420:2003)	Hearing (EN 352-1)	High-visibility Vest (BS EN 471)	RPE	Fall arrest (BS EN 361)
	✓	✓	✓	✓		✓		

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 012 – Mobile Excavators

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Any additional PPE requirements?
Site Amendments: The responsible person on site must utilise this section for additions to the assessment.
Note for Managers / Supervisors: - You must check that the control measures are relevant to the way the work is going to be done. - Check the box confirming either that generic hazards and control measures are appropriate or that site specific amendments need to be considered. - Any hazards not already highlighted must be added in the Site Amendments section (above) along with the additional measures required to control these hazards. - Make sure everyone involved in the operation is fully aware of the contents of this Risk Assessment (where necessary use the reverse of the form to record the briefing). - Please sign the assessment form: Name: Signed: Date:

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 013 – Use of Dumpers

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Task / Activity: USE OF DUMPERS							Assessment Reference: 013		
ACTIVITY	PERSONS AT RISK	SIGNIFICANT HAZARDS	RISK			CONTROL MEASURES	RESIDUAL RISK		
			S	P	RR		S	P	RR
Delivering, unloading, reloading vehicle on site	E C	Mechanical failure; road traffic incident; contact with pedestrians, others	3	5	15	- Safety check to be completed on plant prior to it being loaded onto low-loader trailer. - Plant to be secured with ratchet strap, chains etc. at suitable fixing points. Process to be completed by trained and competent staff. - Vehicle to be driven to site with care. Road traffic laws to be followed at all times. - Suitable unloading area to be identified and agreed with client. - Ground conditions, overhead cables etc. to be checked by driver. - Unloading area to be secured to prevent unauthorised access. Area to be controlled by driver and plant operator (if on site). If necessary, cones and barrier tape to be used. - Process to be repeated when re-loading plant onto low-loader.	2	4	8

At Risk	Severity	Probability	Risk Rating			NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5	LO	W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14	MEDIUM		
V Visitors	3 +7 Day Absence	3 Likely	15 – 25	HIGH		
P Public	4 Major Injury	4 Very Likely				
A All	5 Death	5 Virtually Certain				

RISK ASSESSMENT 013 – Use of Dumpers

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Operating a dumper	E C	Overturning; mechanical failure; crashing into other vehicles/fixed objects; contact with pedestrians or others, injury to the operator (access/ egress)	4	5	20	- Only trained staff to be allowed to operate dumper - all operators must hold appropriate CPCs (or equivalent) card for the plant. Operator to have card on their person at all times. - Operators to follow training and correct operating procedures for the vehicle at all times. This includes wearing seat belts (where ROPS fitted), observing site speed limits, using designated traffic routes, using safety devices such as cameras, reversing warnings etc. - Operators to wear PPE identified as necessary for each site. Standard PPE to be worn: high visibility jacket/bib, hardhat, protective footwear, hearing protection. - Operator to check all safety features are in working order before starting work. - Area in which plant to operate to be secured with Heras/temporary fencing. "Warning Plant Operations" signs to be used. - Operator to check ground conditions suitability. - Works schedule, method statement to be checked and agreed by all parties. - Before moving off checks to be carried out to see that nobody is in the vicinity, particularly in the area obscured by the skip when going forward and behind the vehicle when reversing.	3	3	9
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At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 013 – Use of Dumpers

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Operating a dumper	E C	Overturning; mechanical failure; crashing into other vehicles/fixed objects; contact with pedestrians or others, injury to the operator (access/ egress)	4	5	20	- Designated vehicle routes and speeds to be kept to, appropriate for site conditions. - Directions given by traffic signs and signallers to be followed. - Load only to be completed on ground level with the parking brake applied. - No person to be on dumper when it is being loaded. - Checks to be made to ensure the skip is not overloaded. - Loads to be checked that they are evenly distributed and do not obscure visibility from the driving position. - When the machine is tipping into excavations when stationary the vehicle to be stopped, neutral gear selected and parking brake applied. - The parking brake to be applied, the engine switched off and the key removed when leaving the driver's seat. - No gradients steeper than those specified as safe for the specific bulldozer in the manufacturer's instructions to be driven. - Dumper controls not to be operated unless seated in the driving position. - Passengers not to be carried unless purpose-built seats are provided. - The vehicle not to be driven around the site with the skip in the vertical position.	3	3	9
Use of attachments	E C	Mechanical failure; personal injury	4	3	12	- Only specified attachments to be fitted. - All attachments to be properly secured in accordance with the manufacturer's instructions. - Operators' training to include the methods for fitting attachments. - Proper towing pins with jump-out restraints to be used.	3	2	6

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 013 – Use of Dumpers

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Use of dumpers close to trenches	E C	Trench collapse; plant overturning; personal injury	4	5	20	- Plant operators to be trained so that they only operate the machine at a safe distance from any un-shored trenches. - Operators to ensure that the ground adjacent to trenches is capable of withstanding the machine weight. - No dumping to take place whilst others are working in trenches.	3	3	9
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Management

Should any equipment be issued, it must only be issued to trained persons issued with all necessary PPE and all personnel trained to identify equipment inspection and reporting procedures and any hazards. No young persons are to be permitted access to this work practice or equipment.

PPE Requirements (PPE ASSESSMENT)

In many instances, you will be able to reduce risks further by asking staff/others to wear/use PPE. You should identify which items are required for the task here.

Note. PPE must only be considered as, when other control measures, such as guarding, local exhaust extraction, preventing noise at source, eliminating the need to work at height etc. are not possible. PPE should always be considered as a last resort option. PPE should only be worn when there is reasonable justification for doing so.

Type of PPE:								
	Head (BS EN 397)	Foot (BS EN 345-1)	Eye (BS EN 165:2005)	Hand (BS EN 420:2003)	Hearing (EN 352-1)	High-visibility Vest (BS EN 471)	RPE	Fall arrest (BS EN 361)
	✓	✓	✓	✓	✓	✓		

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 013 – Use of Dumpers

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Any additional PPE requirements?

Site Amendments:

The responsible person on site must utilise this section for additions to the assessment.

Note for Managers / Supervisors:

- You must check that the control measures are relevant to the way the work is going to be done.
- Check the box confirming either that generic hazards and control measures are appropriate or that site specific amendments need to be considered.
- Any hazards not already highlighted must be added in the Site Amendments section (above) along with the additional measures required to control these hazards.
- Make sure everyone involved in the operation is fully aware of the contents of this Risk Assessment (where necessary use the reverse of the form to record the briefing).
- Please sign the assessment form:

Name:

Signed:

Date:

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 014 – Use of Bulldozer

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Task / Activity: USE OF BULLDOZER							Assessment Reference: 014		
ACTIVITY	PERSONS AT RISK	SIGNIFICANT HAZARDS	RISK			CONTROL MEASURES	RESIDUAL RISK		
			S	P	RR		S	P	RR
Delivering, unloading, reloading vehicle on site	E C	Mechanical failure; road traffic incident; contact with pedestrians, others	3	5	15	- Safety check to be completed prior to plant being loaded onto low-loader trailer. - Plant to be secured with ratchet strap, chains etc. at suitable fixing points. Process to be completed by trained and competent staff. - Vehicle to be driven to site with care. Road traffic laws to be followed at all times. - Suitable unloading area to be identified and agreed with client. - Ground conditions, overhead cables etc. to be checked by driver. - Unloading area to be secured to prevent unauthorised access. Area to be controlled by driver and plant operator (if on site). If necessary, cones and barrier tape to be used. - Process to be repeated when re-loading plant onto low-loader.	2	4	8

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 014 – Use of Bulldozer

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Operating a mechanical bulldozer	E	Overturning; mechanical failure; crashing into other vehicles/fixed objects; contact with pedestrians or others, injury to the operator (access/ egress)	4	5	20	- Only trained staff to be allowed to operate bulldozers - all operators must hold appropriate CPCS (or equivalent) card for the plant. Operator to have card on their person at all times. - Operators to follow training and correct operating procedures for the vehicles at all times. This includes wearing seat belts, observing site speed limits, using designated traffic routes, using safety devices such as cameras, reversing warnings etc. - Operators to wear PPE identified as necessary for each site. Standard PPE to be worn: high visibility jacket/bib, hard hat, protective footwear. - Operator to check all safety features are in working order before starting work. - Area in which plant to operate to be secured with Heras/temporary fencing. "Warning Plant Operations" signs to be used. - Operator to check ground conditions suitability. - Service drawings/plans/CAT & Genny scan results to be checked. - Works schedule, method statement to be checked and agreed by all parties. - Bulldozers only to be used for their intended purpose.	3	3	9
	C								

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 014 – Use of Bulldozer

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Operating a mechanical bulldozer	E C	Overturning; mechanical failure; crashing into other vehicles/fixed objects; contact with pedestrians or others, injury to the operator (access/ egress)	4	5	20	- Designated vehicle routes and speeds to be kept to, appropriate for site conditions. - Directions given by traffic signs and signallers to be followed. - The parking brake to be applied, the engine switched off and the key removed when leaving the driver's seat. - No gradients steeper than those specified as safe for the specific bulldozer in the manufacturer's instructions to be driven. - Dumper controls not to be operated unless seated in the driving position. - Passengers not to be carried unless purpose-built seats are provided.			
Use of bulldozers close to trenches	E C	Trench collapse; plant overturning; personal injury	4	5	20	- Bulldozer operators to be trained so that they only operate the machine at a safe distance from any un-shored trenches. - Operators to ensure that the ground adjacent to trenches is capable of withstanding the machine weight. - No work using the machine to take place whilst others are working in trenches.	3	3	9
Parking of bulldozers	E C	Personal injury; damage to plant and property	3	3	9	- All operators to park bulldozers in the designated parking area. - Operators to remove keys from their machine and keep them secure.	2	1	2
Management Should any equipment be issued, it must only be issued to trained persons issued with all necessary PPE and trained to identify equipment inspection and reporting procedures and any hazards. No young persons are to be permitted access to this work practice or equipment.									

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 014 – Use of Bulldozer

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PPE Requirements (PPE ASSESSMENT) In many instances, you will be able to reduce risks further by asking staff/others to wear/use PPE. You should identify which items are required for the task here. Note. PPE must only be considered as, when other control measures, such as guarding, local exhaust extraction, preventing noise at source, eliminating the need to work at height etc. are not possible. PPE should always be considered as a last resort option. PPE should only be worn when there is reasonable justification for doing so.									
Type of PPE:									
	Head (BS EN 397)	Foot (BS EN 345-1)	Eye (BS EN 165:2005)	Hand (BS EN 420:2003)	Hearing (EN 352-1)	High-visibility Vest (BS EN 471)	RPE	Fall arrest (BS EN 361)	
	✓	✓	✓	✓	✓	✓			
	Any additional PPE requirements?								

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 014 – Use of Bulldozer

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Note for Managers / Supervisors:

- You must check that the control measures are relevant to the way the work is going to be done.
- Check the box confirming either that generic hazards and control measures are appropriate or that site specific amendments need to be considered.
- Any hazards not already highlighted must be added in the Site Amendments section (above) along with the additional measures required to control these hazards.
- Make sure everyone involved in the operation is fully aware of the contents of this Risk Assessment (where necessary use the reverse of the form to record the briefing).
- Please sign the assessment form:

Name: Signed: Date:

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 047a - HAND TOOLS

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Task / Activity: HAND TOOLS							Assessment Reference: 047		
ACTIVITY	PERSONS AT RISK	SIGNIFICANT HAZARDS	RISK			CONTROL MEASURES	RESIDUAL RISK		
			S	P	RR		S	P	RR
Using a screwdriver	E C	Choosing the wrong type may cause tool to slip leading to piercing injuries	3	4	12	- The correct type of screwdriver for the job to be chosen, e.g. using a Posidrive head for a Posidrive screw as opposed to a Phillips head. - Longer length screwdrivers require less force to tighten or slacken screws, which will require less physical effort and thus giving more control.	2	1	2
Using hand tools during electrical work	E C	Using un-insulated hand tools on electrical work may lead to electrical shock or burn injuries	4	4	16	- Only insulated tools to be used when working on electrical equipment. - Insulation must be in good condition. - Mains supplies to be turned off before commencing work where possible. (Note - a separate risk assessment and a safe system of work will be required for live working.)	3	2	6
Using pliers or gripping tools	E C	Using an incorrect or damaged tool may cause it to slip leading to cuts and bruising	3	3	9	- The correct type and size of tool for the task in hand to be chosen. - Pliers and gripping tools to be maintained in a good condition.	3	1	3
Sawing metal, wood etc.	E C	Using incorrect type of saw can lead to saw jamming or jumping out causing cuts to hand/wrists	4	3	12	- The correct saw for the task in hand to be used, e.g. hacksaw for metal cutting, wood saw for woodcutting etc. - A good cutting technique to be used, i.e. even, steady strokes with even pressure.	3	1	3
Sawing metal, wood etc.	E C	Using saws with damaged blades such as missing or broken teeth can lead to the saw jumping out of workpiece and causing cuts to hands/wrists	4	3	12	- The condition of saw blades to be checked before use. - Saws with damaged blades should not be used. - Periodic hand tool checks to be introduced and faulty or damaged items to be replaced.	3	1	3

At Risk		Severity	Probability	Risk Rating	NOTE
E	Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	
C	Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V	Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P	Public	4 Major Injury	4 Very Likely		
A	All	5 Death	5 Virtually Certain		
The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.					

RISK ASSESSMENT 047a - HAND TOOLS

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Using electric saws	E C	Missing guards or damaged blades, cables etc. on electrical saws can lead to injuries to hands, eyes etc.	4	5	20	- Guards to always be fitted and in position. - Blades to be checked for type and damage before use. - The condition of electrical cables to be checked and taken out of service if damaged. - Eye protection to be worn.	3	1	3
Using a hammer	E C	Use of hammers with loose heads can lead to impact injuries	4	2	8	- Hammer shafts to be in good condition and hammer head is securely fixed. - If damaged do not use and replace.	2	1	2
Using files	E C	Using files with damaged handles can lead to cuts to hand	4	2	8	- Always ensure that file handles are secure to the tang. - Files with damaged handles to be replaced.	2	1	2
Using chisels	E C	Incorrect use and storage of chisels or using damaged chisels can lead to personal injuries.	4	4	16	- Always use the correct chisel for the job in hand. - Chisels to be well maintained. - Don't strike wood chisels with a hammer (other than types designed for this activity, e.g. mortise chisels). - Keep chisel ends protected when not in use. - Eye protection to be worn where necessary.	2	1	2
Using spanners	E C	Using the wrong sized spanner can lead to it slipping causing hand/arm injuries	4	3	12	- The correct size and type of spanner to be used; ring spanners will give a better grip than open-ended ones. - Make sure any nuts or bolts have good faces that will allow the spanner to grip. - Don't use excessive pressure and use a releasing agent if nut or bolt is rusted.	3	1	3
Using knives	E C	Incorrect use of knife can lead to cuts to hands/arms	4	4	16	- Consider using a safer, alternative tool to carry out the task, e.g. a cable stripper, scissors etc. - Cut away from the body and the hand should be kept behind the blade. - Kevlar type gloves to be worn to prevent cuts.	3	1	3

At Risk	Severity	Probability	Risk Rating		NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5	LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14	MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25	HIGH	
P Public	4 Major Injury	4 Very Likely			
A All	5 Death	5 Virtually Certain			

RISK ASSESSMENT 047a - HAND TOOLS

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Management

Should any equipment be issued, it must only be issued to trained persons issued with all necessary PPE and all personnel trained to identify equipment inspection and reporting procedures and any hazards. No young persons are to be permitted access to this work practice or equipment.

PPE Requirements (PPE ASSESSMENT)

In many instances, you will be able to reduce risks further by asking staff/others to wear/use PPE. You should identify which items are required for the task here.

Note. PPE must only be considered as, when other control measures, such as guarding, local exhaust extraction, preventing noise at source, eliminating the need to work at height etc. are not possible. PPE should always be considered as a last resort option. PPE should only be worn when there is reasonable justification for doing so.

Type of PPE:								
	Head (BS EN 397)	Foot (BS EN 345-1)	Eye (BS EN 165:2005)	Hand (BS EN 420:2003)	Hearing (EN 352-1)	High-visibility Vest (BS EN 471)	RPE	Fall arrest (BS EN 361)
	✓	✓	✓	✓	✓	✓		

Any additional PPE requirements?

Hand, eye and ear protection is dependant on the item of tool being used and the task being undertaken.

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 047a - HAND TOOLS

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Site Amendments: The responsible person on site must utilise this section for additions to the assessment.

Note for Managers / Supervisors:

- You must check that the control measures are relevant to the way the work is going to be done.
- Check the box confirming either that generic hazards and control measures are appropriate or that site specific amendments need to be considered.
- Any hazards not already highlighted must be added in the Site Amendments section (above) along with the additional measures required to control these hazards.
- Make sure everyone involved in the operation is fully aware of the contents of this Risk Assessment (where necessary use the reverse of the form to record the briefing).
- Please sign the assessment form:

Name:

Signed:

Date:

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 047b - Hand Tools

Project : C&S Energy BESS - Initial Site Access and Welfare Set-up		Revision: 1	Date: 12/06/24	Page: 1 of 3
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Task / Activity: Hand Tools			Assessment Reference: 047b						
ACTIVITY	PERSONS AT RISK	SIGNIFICANT HAZARDS	RISK			CONTROL MEASURES	RESIDUAL RISK		
			S	P	RR		S	P	RR
Injury from the tool or material displaced by the use of the tool, eg wire brush bristles	A	Bodily Injuries to person	3	4	12	- Operative checks on the tool prior to use for signs of wear and tear. - Wearing eye protection, consider visors. - Rubber sleeved chisels. - Gloves. - Adequate space between workers. - Maintenance of the tool and replacements available when damaged.	3	2	6
Work related upper limb disorders	E	Musco Skeletal Injuries	3	3	9	- Ergonomic design of task, eg special tools, or use of power tools, eg electric nut runner. - Good lighting. - Good quality access equipment. - Job rotation. - Offsite fabrication where possible.	3	2	6
Dust	A	Chest Illness Long Term Illness	3	3	9	- Dampening Down. - Ensure tools with a water supply are used where possible and the function is used. - Wear masks and goggles in accordance with any assessment carried out under COSHH. - Forced air ventilation. - Use vacuum cleaner instead of sweeping. - Provide hoses and extraction units,	3	2	6

At Risk	Severity	Probability	Risk Rating		NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5	LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14	MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25	HIGH	
P Public	4 Major Injury	4 Very Likely			
A All	5 Death	5 Virtually Certain			

RISK ASSESSMENT 047b - Hand Tools

Project : C&S Energy BESS - Initial Site Access and Welfare Set-up	Revision: 1	Date: 12/06/24	Page: 2 of 3
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Falls while using the tool or fall of the tool	A	Injury to persons Damage to equipment	3	4	12	- Use of harness/lanyard attached to the person/tool and work platform. - Safety catch nets. - Selection of work platform such as scaffolding or MEWP in preference to steps and ladders. - Use of a retractable lanyard for securing the tool to the toolbelt - Exclusion zone	3	2	6
Fire/explosion/electrocution	A	Burns Shock	5	4	20	- Carry out specialist risk assessment. - Ensure necessary emergency arrangements are at hand and in place.	4	2	8
Ergonomics	E	Muscle Strain Fatigue	3	3	9	- Selection of the best tool for the task. - Powered tools used where reasonably practicable.	2	2	4
Unauthorised use	A	Personal Injury Damage to equipment	4	4	16	- Secure the site and prevent unauthorised access/use - Lock away hand tools when not in use. - Ensure blades etc are removed after use and disposed of when they have been used.	1	1	1

Management

Monitor wearing of appropriate personal protective equipment

Type of PPE:								
	Head (BS EN 397)	Foot (BS EN 345-1)	Eye (BS EN 165:2005)	Hand (BS EN 420:2003)	Hearing (EN 352-1)	High-visibility Vest (BS EN 471)	RPE	Fall arrest (BS EN 361)
	✓	✓	✓	✓	✓	✓	✓	

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 047b - Hand Tools

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Any additional PPE requirements? PPE will be specific to the tool and task undertaken, see operator/manufactures instructions for advised PPE requirements Site Amendments: The responsible person on site must utilise this section for additions to the assessment.	Note for Managers / Supervisors: - You must check that the control measures are relevant to the way the work is going to be done. - Check the box confirming either that generic hazards and control measures are appropriate or that site specific amendments need to be considered. - Any hazards not already highlighted must be added in the Site Amendments section (above) along with the additional measures required to control these hazards. - Make sure everyone involved in the operation is fully aware of the contents of this Risk Assessment (where necessary use the reverse of the form to record the briefing). - Please sign the assessment form: Name: Signed: Date:
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At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 144 - Site Set Up

Project : C&S Energy BESS - Initial Site Access and Welfare Set-up	Revision: 1	Date: 12/06/24	Page: 1 of 5
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Task / Activity: Temporary Accommodation - Site Set Up							Assessment Reference: 144		
ACTIVITY	PERSONS AT RISK	SIGNIFICANT HAZARDS	RISK			CONTROL MEASURES	RESIDUAL RISK		
			S	P	RR		S	P	RR
Cabin Delivery	E C	Overturning of Units or Vehicles	4	3	12	- Provide Suitable temporary access roads and suitably reinforced bearings for unit legs. - Ensure route is surveyed and height of plant carrying units is known to ensure clearance under bridges/trees. - Suspend all moving/lifting operations during inclement weather.	4	2	8
	E C	Contact with Moving Vehicles	4	3	12	- Provide a banksman for all vehicular movements. - Segregate if possible vehicular and pedestrian routes. - Provide adequate lighting especially in winter months when lighting is diminished. - Ensure all mirrors on plant are in the correct position and fit for purpose. - AFARP restrict deliveries/plant movements to less busier times of the day.	4	2	8
	E C	Collision with plant during mechanical handling	4	3	12	- Lifting plan to be implemented. - Use competent banksmen/slingers - Specific site rules to identify where refuge points are for specific lifting operations	4	1	4
Cabin Installation	E C	Falling materials / equipment or Welfare cabin etc	5	5	25	- Integrity of accommodation should be checked prior to any lifts. - A Lifting Plan must be completed prior to the lift by a competent person.	5	2	10
At Risk	Severity	Probability	Risk Rating			NOTE			
E Employees	1 No Injury	1 Very Unlikely	1 – 5			The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.			
C Contractors	2 Minor Injury	2 Unlikely	6 – 14						
V Visitors	3 +7 Day Absence	3 Likely	15 – 25						
P Public	4 Major Injury	4 Very Likely							
A All	5 Death	5 Virtually Certain							

RISK ASSESSMENT 144 - Site Set Up

Project : C&S Energy BESS - Initial Site Access and Welfare Set-up				Revision: 1	Date: 12/06/24	Page: 2 of 5				
					- Use manufacturer's points of attachment for lifting and suitable lifting equipment. - Prohibit work or access below the route of the lift. - All lifting aids should be certified and suitable for purpose - Secure all doors and loose items prior to the lift. - Use guide ropes where necessary. - Provide signs/barriers preventing access					
	EC	Falls	5	5	25	- Carry out repairs prior to arrival on site and crane unit into position. - Connect or disconnect any chain hooks from the unit whilst standing on proprietary equipment, not the unit roof. - Assemble high level walkways/steps at ground level as much as possible. - Assess all work at height. - Provide means of opening and closing shutters without the use of ladders - If access is required at high level complete an assessment prior to commencement of work.	5	2	10	
	EC	Rupture of Buried Services or Collapse of Underground Voids	5	3	15	- Obtain detailed Site Investigation report and physical survey of accommodation area and transport route. - Re-route traffic. - If unavoidable strengthen the ground or provide bridging. - Area to be thoroughly assessed prior to positioning of unit and deemed safe by the supervisor.	4	2	8	
	EC	Electrocution through contact with Overhead Lines	5	5	25	- Site units and delivery routes away from overhead services. - Isolate or divert the services if sighting is not possible away from the services. - Use lifting appliances which are fitted with height limiters.	5	2	10	
At Risk			Severity		Probability		Risk Rating		NOTE	
E	Employees	1	No Injury	1	Very Unlikely	1 – 5	LOW		The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.	
C	Contractors	2	Minor Injury	2	Unlikely	6 – 14	MEDIUM			
V	Visitors	3	+7 Day Absence	3	Likely	15 – 25	HIGH			
P	Public	4	Major Injury	4	Very Likely					
A	All	5	Death	5	Virtually Certain					

RISK ASSESSMENT 144 - Site Set Up

Project : C&S Energy BESS - Initial Site Access and Welfare Set-up				Revision: 1	Date: 12/06/24	Page: 3 of 5			
					• Use of goal posts. • Use of banksman/slinger.				
	E C	Electrocution from Accommodation Supplies	5	4	20	• Prohibit use of unit until the electrical pass certificate is issued. • PAT Testing of all equipment used in the unit. • Report any unsafe wiring/plugs/cables to the supplier immediately and do not use the faulty item. • Only qualified electricians can alter the wiring or make repairs/alterations. • Units to be isolated and verified prior to removal or movement.	5	2	10
Fire Risk	E C	Damage to Cabins/ equipment/persons	4	3	12	• Ensure all gas equipment and supply pipework is tested prior to use and a certificate is obtained. – This includes workers own accommodation. • Ensure suitable separation between units and fire points. • Fire plan is to be in place and extinguisher media in appropriate places • Ensure compliance with fire legislation. • Ensure heaters are kept clear and turned off when cabin vacated • Use of Hot Work permit for Hot Works	4	1	4
Poor House keeping Inappropriate access	E C	Slips Trips and Falls	3	3	9	• Ensure good housekeeping, and that materials and equipment are stored tidily when not in use. • Use of purpose made access equipment. • Provide adequate lighting. • Wear suitable footwear. • Regular clearing and tidying of the work area to reduce the amount of equipment/debris on the ground. • Use of battery powered tools	2	2	4

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 144 - Site Set Up

Project : C&S Energy BESS - Initial Site Access and Welfare Set-up					Revision: 1	Date: 12/06/24	Page: 4 of 5		
Un secure site	E P	Unauthorised Access, injuries to other parties, damaged equipment, stolen materials/equipment	4	3	12	• Ensure the site is secure at all times. • Provide security barriers/fencing with signage and lighting. • Ensure all plant and equipment is secured and locked away from sight when not in use. • At the end of shift remove ladders/means of access and store securely. • Provide a watchman or security when the site is unoccupied.	2	2	4
Manual Handling		Injuries to employees/contractors Lost time	3	3	9	• Use mechanical handling where possible and always if work is over two storeys high. • Deliver close to the work site. • Provide mechanical means AFARP to manoeuvre materials around the site. • Provide manual handling training. • Adapt the scaffold to suit the manual handling of the materials/ equipment required.	2	2	4

Management

Should any equipment be issued, it must only be issued to trained persons issued with all necessary PPE and all personnel trained to identify equipment inspection and reporting procedures and any hazards. No young persons are to be permitted access to this work practice or equipment.

PPE Requirements (PPE ASSESSMENT)

Note. PPE must only be considered as, when other control measures, such as guarding, local exhaust extraction, preventing noise at source, eliminating the need to work at height etc. are not possible. PPE should always be considered as a last resort option. PPE should only be worn when there is reasonable justification for doing so.

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 144 - Site Set Up

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Type of PPE:								
	Head (BS EN 397)	Foot (BS EN 345-1)	Eye (BS EN 165:2005)	Hand (BS EN 420:2003)	Hearing (EN 352-1)	High-visibility Vest (BS EN 471)	RPE	Fall arrest (BS EN 361)
	✓	✓	✓	✓	✓	✓		
	Any additional PPE requirements? In many instances, you will be able to reduce risks further by asking staff/others to wear/use PPE. You should identify which items are required for the task here.							
Site Amendments The responsible person on site must utilise this section for additions to the assessment								
Note for Managers / Supervisors: ▪ You must check that the control measures are relevant to the way the work is going to be done. ▪ Check the box confirming either that generic hazards and control measures are appropriate or that site specific amendments need to be considered. ▪ Any hazards not already highlighted must be added in the Amendments section (above) along with the additional measures required to control these hazards. ▪ Make sure everyone involved in the operation is fully aware of the contents of this Risk Assessment (where necessary use the reverse of the form to record the briefing). ▪ Please sign the assessment form:								
Name: Signed: Date:								

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 200 - HOT LAY TARMAC – HAND AND MACHINE

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Task / Activity:		HOT LAY TARMAC – HAND AND MACHINE				Assessment Reference: 200			
ACTIVITY	PERSONS AT RISK	SIGNIFICANT HAZARDS	RISK			CONTROL MEASURES	RESIDUAL RISK		
			S	P	RR		S	P	RR
Manual handling (including musculoskeletal disorders resulting from the physical nature of the work.)	A	Muscular Injury	3	4	12	- All operatives to be trained in manual handling techniques - Adequate PPE to be supplied. . - Utilise Mechanical handling aids where possible. - Delivery of materials as close to position of lay as possible	1	4	4
Road Traffic	A		3	4	12	- Temporary Traffic Light Control as required. - Adequate and Appropriate Chapter 8 Equipment Signing, Cones and Barriers provided Safety awareness and traffic management training. - Chapter 8 Street Works Accreditation Training. - Diligence in adhering to training and Safe Working Procedures. Conspicuous and hi-visibility - Personal Protective Equipment (Class 3 for high speed roads 50mph+). Safety zones to be established.	2	4	8
Injuries to pedestrians and Road Users	A		3	4	12	- Apply traffic management is accordance with chapter 8 requirements. - Provide pedestrian access around works	1	4	8

At Risk	Severity	Probability	Risk Rating			NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5	LO	W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14	MEDIUM		
V Visitors	3 +7 Day Absence	3 Likely	15 – 25	HIGH		
P Public	4 Major Injury	4 Very Likely				
A All	5 Death	5 Virtually Certain				

RISK ASSESSMENT 200 - HOT LAY TARMAC – HAND AND MACHINE

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Burns from materials	A	Serious Burns to persons	5	3	15	- Suitable protective clothing for handling bituminous materials - First aid kits, - Running water available on site	3	2	6
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At Risk	Severity	Probability	Risk Rating		NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5	LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14	MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25	HIGH	
P Public	4 Major Injury	4 Very Likely			
A All	5 Death	5 Virtually Certain			

RISK ASSESSMENT 200 - HOT LAY TARMAC – HAND AND MACHINE

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Laying asphalt with paver which is filled from tipper. Some manual laying using shovels & rakes required. Some cleaning may be required at the front of the paver E C P	Manual handling	3	4	12	- Use mechanical means where ever practical - Warm up exercises, correct posture, and correct technique - Take regular breaks/rotate work - Wear gloves as required - All trucks to have completed a company induction before arriving at job site. - All trucks to complete an operators pre-start checklist & be fitted with reversing beepers & rotating flashing beacon - Do no reverse into hopper until under the guidance of the Tipman in the yellow / green vest - Maintain contact with Tipman via Two way Radio or the use of hand signals - Reverse at walking pace - Sound horn to warn people of your presence - Always use mirrors and look in direction of travel - No ground personnel permitted in front of paver when truck reversing - Refer to Vehicle Movement Procedure - Long sleeved clothing, protective footwear - Handle hot mix with shovel or mechanical aid - No direct contact. If need to directly touch hot mix, wear protective gloves - Wear gloves as required - Do not touch any part of the paver which may be hot - Wear riggers gloves if contact with hot surfaces is necessary	3	2	6
	Reversing vehicles with restricted rear vision (tipping asphalt into paver)	5	4	20		4	2	8
	Moving parts / entanglement – paver	4	4	16		4	2	6

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 200 - HOT LAY TARMAC – HAND AND MACHINE

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Working with hot mix (hand laying when required i.e. unable to lay with paver)	E C	Burns	5	4	20	• Long sleeved clothing, protective footwear • Handle hot mix with shovel or mechanical aid • No direct contact. If need to directly touch hot mix, wear protective gloves • Wear gloves as required	4	2	8
Cleaning the hopper	E C	Personal Injury Crush Injuries Burns	4	4	16	• Do not clear hopper with shovel whilst slat conveyor is operational • Do not raise or lower hopper wings without first checking for the presence of workers • Stay clear of augers • Spotter required to watch for vehicle movement whilst crew member cleans front of paver • Wear gloves as required	3	2	6
Fumes	E C	Asphyxiation Illness	5	4	20	• Ensure mix is at the specified temperature to avoid excessive fuming • Wear supplied P2 respirators as req. • Do not use excessive release agent in hopper or in truck bodies	5	2	10

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
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RISK ASSESSMENT 200 - HOT LAY TARMAC – HAND AND MACHINE

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Power Lines Overhead obstructions	A	Electrocution to persons Equipment becoming live and causing injury	5	4	20	• Treat all powerlines as live • Strictly follow directions of Spotter • Maintain radio contact with Tipman / Spotter. • Maintain a minimum clearance of 6.4 to 3.0 metres if an OCEI trained spotter is in place • Lower the body of the truck immediately after tipping. (Not to drive off with the body up unless directed by tipman/spotter) • Take special precautions in wet weather or damp conditions to avoid arcing • Assess the work to determine if work can be safely carried out without encroaching on the No Go Zone (anywhere within 3m of the power line). • Notify Client if the work cannot be completed outside the No Go Zone • Ensure that all persons working on site are made aware of the location of each line and the minimum clearances, during the site induction • Advise all site personnel to be constantly aware of the danger of overhead power lines (look up and live!) • Mark the location of overhead power lines by placing out yellow traffic cones • Ensure that all persons working on site are made aware of the location of other overhead obstructions such as tree branches or canopies during the site induction	4	2	8
Management Should any equipment be issued, it must only be issued to trained persons issued with all necessary PPE and trained to identify equipment inspection and reporting procedures and any hazards. No young persons are to be permitted access to this work practice or equipment.									

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
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RISK ASSESSMENT 200 - HOT LAY TARMAC – HAND AND MACHINE

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PPE Requirements (PPE ASSESSMENT) In many instances, you will be able to reduce risks further by asking staff/others to wear/use PPE. You should identify which items are required for the task here. Note. PPE must only be considered as, when other control measures, such as guarding, local exhaust extraction, preventing noise at source, eliminating the need to work at height etc. are not possible. PPE should always be considered as a last resort option. PPE should only be worn when there is reasonable justification for doing so.									
Type of PPE:									
	Head (BS EN 397)	Foot (BS EN 345-1)	Eye (BS EN 165:2005)	Hand (BS EN 420:2003)	Hearing (EN 352-1)	High-visibility Vest (BS EN 471)	RPE	Fall arrest (BS EN 361)	
	✓	✓	✓	✓	✓	✓	✓		
Any additional PPE requirements?									

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
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RISK ASSESSMENT 200 - HOT LAY TARMAC - HAND AND MACHINE

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Site Amendments: The responsible person on site must utilise this section for additions to the assessment.

Note for Managers / Supervisors:

- You must check that the control measures are relevant to the way the work is going to be done.
- Check the box confirming either that generic hazards and control measures are appropriate or that site specific amendments need to be considered.
- Any hazards not already highlighted must be added in the Site Amendments section (above) along with the additional measures required to control these hazards.
- Make sure everyone involved in the operation is fully aware of the contents of this Risk Assessment (where necessary use the reverse of the form to record the briefing).
- Please sign the assessment form:

Name: Signed: Date:

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 236 - 180 & 360 MACHINES

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Task / Activity: 180 &360 MACHINES			Assessment Reference: 236						
ACTIVITY	PERSONS AT RISK	SIGNIFICANT HAZARDS	RISK			RESIDUAL RISK			
			S	P	RR	S	P	RR	
Overturn of Machinery	A	Crush Injuries Damage to goods Damage to machinery	5	4	20		5	2	10

RISK ASSESSMENT 236 - 180 & 360 MACHINES

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Contact with moving machines or pedestrians	A	Injury Death					• Separation of traffic from pedestrian routes. • Wearing of high visibility clothing. • Minimise reversing movements and follow traffic management plan • Exclude all people who are not directly involved in the work of the machine from the working area. • Maintain as a minimum 600mm clearance between the machine and any fixed structure. • Machinery movements to be under the control of a qualified banksman/slinger. • Use flashing beacon and horn. • Ensure that all workers have an agreed system for attracting the driver's attention before entering the danger zone. • If driver's view of pedestrians is obscured display warning signs. • Provide adequate temporary lighting. • Additional mirrors as necessary to ensure all around machine visibility at 1m from machine. • Reversing alarms. • Minimise movements of machine to work area, confine to less busy times of the day.	5	1	5
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At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25	
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RISK ASSESSMENT 236 - 180 & 360 MACHINES

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Fall of material from bucket or forks/failure of lifting equipment.	A	Damage to machinery Injury to persons Damage to load	5	4	20	- Inspection and tests required by LOLER and plant & machinery to be assessed prior to delivery on site to ensure the appropriate equipment is made available - No lifting over people or carriage of loads on the highway, drivers of vehicles being loaded to stay within strengthened cabs or dismount and move to a safe area. - Secure loads by tested lifting accessories slung only to approved lifting equipment. - Provision of automatic safe load indicator or marking maximum safe working load (SWL) at maximum reach. - Manufacturer's handbook in cab. - Restrict use of fork attachments (provide fork lift truck). - Ensure buckets are properly locked on and secure prior to all manoeuvres. - Minimise travel distances of machinery when carrying loads.	4	2	8
Collision with plant or vehicles during mechanical handling	A	Injury Damage to other equipment	5	4	20	- Creation of specific site rules to identify where men are to take refuge during mechanical handling operations. - Use qualified banksman/slinger - Arrange the area to ensure it can be cordoned off	5	1	5
High pressure hydraulic fluid ejection	A	Injury to persons Damage to machinery Environmental	4	4	16	- Driver daily check - Competent person weekly recorded check - Maintenance in accordance with manufacturer's instructions. - Regular inspection for signs of wear. - Specialist repair. - Competent persons to use the machine.	4	2	8

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
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RISK ASSESSMENT 236 - 180 & 360 MACHINES

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Whole body vibration	E C	Muscoskeletal disorders for operatives	4	4	16	• Employees advised through induction and ongoing training to report any feelings of ill health and specialist professional health surveillance sought. • Provide system for monitoring health of operatives. • Use and maintain ergonomic adjustable seating and ensure drivers are aware of how to adjust and use it. • Maintain cab and chassis suspension and maintain main routes as free of bumps as possible. • Allow time to travel at appropriate speed over rough ground. • Selection of low vibration attachments for breaking. • Job rotation to be implemented if vibration levels are for a prolonged time.	4	2	8
Loss of bucket	A	Injury to person Damage to equipment	4	3	12	• Work area to be assessed and no persons permitted to work below the bucket • Boom/dipper arm to have a sign fitted stating the type of retaining system used on the machine • All personnel involved with this work must be trained on the safe use and operation of each bucket particularly with regard to removal and refitting. • Careful maintenance of securing pins or quick hitch. • Fitted with an independent secondary safety device.	4	2	8

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
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RISK ASSESSMENT 236 - 180 & 360 MACHINES

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Contact with underground or overhead services	A	Electrocution Loss of Services Explosion	5	4	20	- Carry out physical survey to identify locations of all buried services in accordance with HSG47 "Avoiding Danger from Buried Services". - Request services details from the client/principal contractor - CAT scans to be undertaken with the ground marked - Work around any services to be hand dig only, (No plant or machinery) and by trained operatives. - Provision and use of limiters on machinery if overhead services can not be removed. - Re-route work to avoid overhead or underground services or isolate. - If work must be undertaken close to services Prohibit storage of material near services and choose smaller machine, provide protection and indication of services by goalpost or signs. - Emergency procedure for cable strikes or contact with overhead power lines.	5	2	10
Falls from the machine	E C	Injury to operator	4	3	12	- Provide footwear with good grip. - Install handholds and non-slip materials to all areas of the machine for which access is required and clean regularly. - Prohibit passengers unless seats are provided. - Keeping the cab clear of tools, etc. - Provide training on access & egress from the cab - Methods of dismantling are to be monitored by the supervisor and jumping from the cab is not permitted. - Only use proprietary access routes/means -especially when securing anti vandal guards to the cabin.	4	2	8
Management Should any equipment be issued, it must only be issued to trained persons issued with all necessary PPE and trained to identify equipment inspection and reporting procedures and any hazards. No young persons are to be permitted access to this work practice or equipment.									

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RISK ASSESSMENT 236 - 180 & 360 MACHINES

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PPE Requirements (PPE ASSESSMENT)

In many instances, you will be able to reduce risks further by asking staff/others to wear/use PPE. You should identify which items are required for the task here.

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Type of PPE:								
	Head (BS EN 397)	Foot (BS EN 345-1)	Eye (BS EN 165:2005)	Hand (BS EN 420:2003)	Hearing (EN 352-1)	High-visibility Vest (BS EN 471)	RPE	Fall arrest (BS EN 361)
	✓	✓	✓	✓	✓	✓		

Any additional PPE requirements?

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RISK ASSESSMENT 236 - 180 & 360 MACHINES

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Site Amendments: The responsible person on site must utilise this section for additions to the assessment.

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- Please sign the assessment form:

Name: Signed: Date:

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Appendix B - Site works specific RAMS

Welfare Equipment Offloading, installation and set-up.

GENERIC METHOD STATEMENT FOR LIFTING OF PORTABLE UNITS BY USE OF LORRY LOADER

This Method Statement has been prepared in accordance with the Health & Safety at Work Act 1974, the Health & Safety at work regulations 1999 and the Lifting Operations and Lifting Equipment Regulations 1998, BS 7121 Part 1 Safe Use of Cranes and BS7121 Part 4 Safe Use of Lorry loaders.

Method Statement No:			
Hirer:	Ameresco Ltd		
SUNBELT RENTALS Accommodation Contact:	NAME: Fiona Eyles	TEL: 0161 787 9041	
		MOBILE: n/a	
Site Address:	C&S Energy BESS, Rownall Road, nr Werrington, Stoke-on-Trent ST9 0BS		
	SITE CONTACT: Dan Mayer	TEL:	
		MOBILE: 07825799258	
Scope Of Work:			
Equipment:	LORRY LOADER CERTIFIED LIFTING EQUIPMENT COMPETENT LORRY LOADER OPERATOR LADDER & SELF RESCUE DECSENDER SAFETY HARNESS PERSONAL PROTECTIVE EQUIPMENT – HARD HAT, GLOVES HI-VISIBILITY VEST OR JACKET, SAFETY BOOTS, LIGHT EYE PROTECTION		
Job Date:	W/C 19th July (TBC)		

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Sequence Of Events:

1. EQUIPMENT

- I. LORRY LOADER
- II. LIFTING ACCESSORIES
- III. LADDER
- IV. PERSONAL PROTECTIVE EQUIPMENT

PPE Description	Type And Model
HARD HAT	BSEN397
GLOVES	EN388
HI-VISIBILITY VEST or JACKET	BSEN471
SAFETY BOOTS	BSEN 345
LIGHT EYE PROTECTION	EN 1866

ACCESS & EGRESS

- I. All Operatives entering site will report to the Hirer responsible person for a brief induction.
- II. The Hirer is to ensure that there are no specific access or egress problems internally or externally relative to the works being undertaken and ensure that no site activities and/or site vehicles and plant hinder lorry loader manoeuvrability prior to our arrival at site.
- III. Hirer to ensure that Lorry Loader and support vehicles have clear unobstructed access to the Lifting Operation Exclusion Zone/s.
- IV. Sunbelt Rentals are always to be accompanied by a competent Rail Person / Worker whilst on site.
- V. If the area of install is unsuitable for us to carry out the work, aborted costs will be recharged to the customer.

SITE INDUCTION

- I. Upon arrival and prior to commencing work activity, SUNBELT RENTALS personnel to report to the Hirer responsible person(s). SUNBELT RENTALS personnel must produce the following documentation: Copy of this Method Statement, 12 Monthly Certificate of Inspection for Lorry Loader, 6 Monthly Certificate of Examination for lifting accessories. Relevant CPCs/CSCS cards. The Manufacturers Operators manual must be available in the vehicle cab.
- II. The Hirer is to ensure SUNBELT RENTALS employees obtain any site induction and receive applicable permits to work. All personnel to wear appropriate PPE, as instructed, at all times.
- III. All inducted personnel must sign and print on the bottom of the Method Statement, a copy of which must be returned to the relevant SUNBELT RENTALS Accommodation Depot

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LIFTING ACTIVITY

- I. When acceptance of this Method Statement is agreed our Lorry Loader Operator will proceed to the nominated working area.
- II. Lorry loader will position at the nominated lifting area and perform a secondary hazard assessment to identify any particular hazards in the vicinity.
- III. Once safe to do so, the Lorry Loader Operator will set-up the lorry loader as per the manufacturer's instructions, placing stabiliser mats under all stabilisers; (Ground conditions are the responsibility of the Hirer).
- IV. Lorry Loader Operator will raise jib and position so as to attach the Master-ring of lifting accessories.

Lifting accessories to be secured to each portable unit using the methods described below. Low-Level lifting points are the preferred method and should be utilised where they are fitted & are accessible. Slings methods may vary on site within the same installation of accommodation units.

- I. Low Level Lifting - Our units are supplied with low level lifting eyes which do not require the Lorry loader Operator to access ladders to attach the lifting accessories. The low level lifting points are located at the bottom of the portable unit. When attaching the hooks to the lifting eye, the Lorry loader Operator must ensure that each individual chain passes through the relevant stay bracket positioned towards the roof of the portable unit and located directly above the low level lifting point.
- II. The lorry loader jib will now be raised to take the weight of the load and ensure that lift is centred and stable (Perform a test lift). All personnel not involved in the lifting operation are to remain vigilant and are to be removed from the Lifting area to a place of safety whilst any live load is being lifted.
- III. Once satisfied that the load is secured and safe to lift, the load will then be manoeuvred over to the final position and lowered into place.
- IV. Once the four legs of the lifting accessories are removed the lorry loader operator must ensure that the Lifting accessories are clear of the relevant stay bracket before raising the jib. Remove lifting accessories and stow the crane for transit. The operation is now complete.
- V. Further lifts will follow all previous sections as above.
- VI. Lorry loader is removed from site under escort and as above.

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5. UNATTENDED LORRY LOADER VEHICLE'S

Before any Lorry Loader is left unattended the following must be implemented:

- I. Lorry Loader vehicle will remain inside the Lifting Operation Exclusion Zone at all times.
- II. Where possible the Lorry loader should be stowed in a position away from any possible interference with other operations and positioned to cause the minimum obstruction.
- III. No load will be left suspended and where possible, rigging should be removed.
- IV. All vehicle hand and auxiliary brakes will be engaged.
- V. All engines will be turned off and isolated with the ignition key removed.
- VI. Where possible all vehicle doors will be locked.

6. SITE WELFARE

- I. FIRST AID – SUNBELT RENTALS personnel require the use of existing site facilities in the event of the requirement of first aid. The Hirer is the nominated first aider on site.
- II. EMERGENCY MEDICAL ASSISTANCE – Should further medical assistance and emergency services required, contact and location details will be provided during the Site Induction.
- III. TOILETS – SUNBELT RENTALS personnel would require the use of any existing site facilities whilst at site.

7. EMERGENCY INFORMATION

- I. Emergency Assistance: Ambulance – 999 or as instructed in the site induction.
 1. Hospital: As instructed at site induction
 2. Report all Incidents, Accidents or near misses to the CLIENT responsible person on site as instructed in the site induction.
 3. Incidents\Accidents to be reported to SUNBELT RENTALS Depot Management to log in the accident report book.
 4. **Contact Details:**

Name / Job Title	Contact Details
Roger Kent AMRC Project Manager	0204 5705729
Othuke Okah, AMRC UK Health and Safety Manager	07827 970973

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8. Adverse Weather Conditions

The wind speed at which the Hiab must cease operation is maximum **24mph** and must not be exceeded. It is the decision of the Operator and the Client if work should be stopped below this limit due to local circumstances.

No work may continue when there is a lightning storm in the vicinity. Any storm in the distance must be monitored to decide if it may pose a threat within the time frame of the lifting operation. If there is any risk of lightening in the vicinity, the operator must leave the Hiab after applying the conditions detailed above in Unattended Hiab's.

After work has been stopped for either of the above reasons a weather report will be obtained to determine when work can be resumed.

Beaufort Scale

Beaufort number	Wind Speed (mph)	Seaman's term		Effects on Land
0	Under 1	Calm		Calm; smoke rises vertically.
1	1-3	Light Air		Smoke drift indicates wind direction; vanes do not move.
2	4-7	Light Breeze		Wind felt on face; leaves rustle; vanes begin to move.
3	8-12	Gentle Breeze		Leaves, small twigs in constant motion; light flags extended.
4	13-18	Moderate Breeze		Dust, leaves and loose paper raised up; small branches move.
5	19-24	Fresh Breeze		Small trees begin to sway.
6	25-31	Strong Breeze		Large branches of trees in motion; whistling heard in wires.
7	32-38	Moderate Gale		Whole trees in motion; resistance felt in walking against the wind.
8	39-46	Fresh Gale		Twigs and small branches broken off trees.
9	47-54	Strong Gale		Slight structural damage occurs; slate blown from roofs.
10	55-63	Whole Gale		Seldom experienced on land; trees broken; structural damage occurs.
11	64-72	Storm		Very rarely experienced on land; usually with widespread damage.
12	73 or higher	Hurricane Force		Violence and destruction.

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RISK ASSESSMENT

**WORK
HOME SAFE**

Created	15/05/2020	Medium
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Depot Name & No: TBC		REASON FOR ASSESSMENT:																																																							
LOCATION: C&S Energy BESS, Rownall Road, nr Werrington, Stoke-on-Trent ST9 0BS		NEW ACTIVITY / PROCESS																																																							
		CHANGE IN ACTIVITY / PROCESS																																																							
		RE-ASSESSMENT																																																							
ACTIVITY:		RISK EVALUATION:																																																							
Use of Lorry Mounted Crane/Crane/FLT to load vehicles		SEVERITY 1 = Trivial 2 = Minor 3 = Moderate 4 = Major 5 = Fatality LIKELIHOOD 1 = Unlikely 2 = May Happen 3 = Possible 4 = Very Likely 5 = Almost Certain RISK RATING 1 - 2 = Minimal 3 - 9 = Low 10 - 15 = Medium 16 - 25 = High																																																							
		<table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.7em;"> <thead> <tr> <th style="width: 5%;">#</th> <th style="width: 55%;">HAZARD:</th> <th style="width: 15%;">A SEVERITY</th> <th style="width: 15%;">B LIKELIHOOD</th> <th style="width: 10%;">A x B RISK RATING</th> </tr> </thead> <tbody> <tr><td>1</td><td>Exceeding the capacity of the Lifting plant/equipment</td><td>5 = Fatality</td><td>3 = Possible</td><td>15 = Medium</td></tr> <tr><td>2</td><td>Weight and dimension of equipment being loaded</td><td>5 = Fatality</td><td>3 = Possible</td><td>15 = Medium</td></tr> <tr><td>3</td><td>Workplace transport</td><td>5 = Fatality</td><td>3 = Possible</td><td>15 = Medium</td></tr> <tr><td>4</td><td>Weather conditions leading to slippery, poor lighting or wet surfaces</td><td>4 = Major</td><td>3 = Possible</td><td>12 = Medium</td></tr> <tr><td>5</td><td>Operator error</td><td>5 = Fatality</td><td>2 = May Happen</td><td>10 = Medium</td></tr> <tr><td>6</td><td>Mechanical defect leading to failure of Lorry Mounted Crane/FLT</td><td>5 = Fatality</td><td>2 = May Happen</td><td>10 = Medium</td></tr> <tr><td>7</td><td>Vehicle positioning / non-deployment of landing legs / outriggers / stabilizers</td><td>5 = Fatality</td><td>2 = May Happen</td><td>10 = Medium</td></tr> <tr><td>8</td><td>Falls from height</td><td>5 = Fatality</td><td>3 = Possible</td><td>15 = Medium</td></tr> <tr><td>9</td><td>Overhead electrical cables</td><td>5 = Fatality</td><td>2 = May Happen</td><td>10 = Medium</td></tr> <tr><td>10</td><td>Entrapment with lifting chains / lifting accessories / overloading of lifting equipment</td><td>5 = Fatality</td><td>3 = Possible</td><td>15 = Medium</td></tr> </tbody> </table>			#	HAZARD:	A SEVERITY	B LIKELIHOOD	A x B RISK RATING	1	Exceeding the capacity of the Lifting plant/equipment	5 = Fatality	3 = Possible	15 = Medium	2	Weight and dimension of equipment being loaded	5 = Fatality	3 = Possible	15 = Medium	3	Workplace transport	5 = Fatality	3 = Possible	15 = Medium	4	Weather conditions leading to slippery, poor lighting or wet surfaces	4 = Major	3 = Possible	12 = Medium	5	Operator error	5 = Fatality	2 = May Happen	10 = Medium	6	Mechanical defect leading to failure of Lorry Mounted Crane/FLT	5 = Fatality	2 = May Happen	10 = Medium	7	Vehicle positioning / non-deployment of landing legs / outriggers / stabilizers	5 = Fatality	2 = May Happen	10 = Medium	8	Falls from height	5 = Fatality	3 = Possible	15 = Medium	9	Overhead electrical cables	5 = Fatality	2 = May Happen	10 = Medium	10	Entrapment with lifting chains / lifting accessories / overloading of lifting equipment	5 = Fatality
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2. PEOPLE AT RISK:																																																									
EMPLOYEES		✓	OTHERS / THOSE MORE VULNERABLE																																																						
PUBLIC / VISITORS		✓	SPECIFY																																																						
CONTRACTORS/AGENCY		✓																																																							
3. EXISTING CONTROLS: List of existing controls or where information can be found																																																									
a	Only fully trained and authorized operators are permitted to operate Lorry Mounted Crane / FLT equipment																																																								
b	All Lorry Mounted Crane / FLT are subject to daily pre use inspection and defect reporting																																																								
c	All Lorry mounted crane operators have attended the driver load/unload course and are deemed as competent																																																								
d	See specific risk assessment for fork lift truck activities																																																								
e	All Lorry Mounted Crane/FLT and ancillary equipment have current thorough examination certificates and lifting ratings / capacities / SWL are available to operators																																																								
f	All loading/unloading areas are checked prior to operation for suitability of load area and any overhead obstructions																																																								
g	Access is obtained through safe fixed methods or suitable portable ladders with ladder stops																																																								
h	Fall arrest and Auto self-rescue equipment (Descender reels and harnesses) are used with lorry mounted crane loading or fixed fall protection system.																																																								
i	Preferred method of loading is FLT, Lorry Mounted Crane loading is only permitted under use of site specific lifting plan.																																																								
j	All appropriate PPE to be worn, safety lace-up boots, Hi-vis, Gloves, light eye protection, hard hat (where necessary)																																																								
4. FURTHER CONTROLS REQUIRED: List of actions necessary (if necessary) to control the risk including: Elimination, Substitution, Engineering, SSOW, Training, PPE etc.																																																									
a	Define exclusion zones around lifting operations and make sure people stay out of them. Abort lifting operations until safe to continue	BY WHOM:		BY WHEN:																																																					
b	Assess wind conditions prior to lift, do not proceed if wind is too high for safe loading/unloading to take place	All		Where required																																																					
c	Ensure stabilizers are deployed prior to lift	Crane operator/FLT operator		On-going																																																					
		Crane operator		On-going																																																					
5. RESIDUAL REMAINING RISKS: Considering the controls listed in section 3 & 4 calculation of remaining residual risk rating																																																									
		A SEVERITY	B LIKELIHOOD	A x B RISK RATING																																																					
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ASSESSED BY -		DATE:		SIGNED:																																																					
DATE FOR REVIEW:																																																									
01/05/2025																																																									

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LORRY MOUNTED CRANE LIFT

FULL description of load					
Weight of load (kg)		Accessories weight (kg)		Maximum radius to position load (metres)	
MACHINE	REF No.		YES	NO	DO NOT PROCEED WITH THE LIFT UNLESS ADEQUATE CONTROL MEASURES HAVE BEEN PROVIDED AS DOCUMENTED AND AUTHORISED ON THE NEXT PAGE
	1	If using an excavator, is a check valve fitted to the main boom? (Loads over 1 ton only)	↓	→	
	2	Is the Duty Chart Visible on the Lorry Loader?	↓	→	
	3	Is there an Automatic Safe Load Indicator fitted & working?	↓	→	
	4	Does the machine have a Thorough Examination Certificate, Operator Manual & Defect Report book which has been completed for the day?	↓	→	
ACCESSORIES	5	Is the machine set up in accordance with the manufacturer's instructions (outriggers etc.)	↓	→	
	6	Are all the lifting accessories clearly marked with ID No. and SWL?	↓	→	
	7	Are all lifting accessories within their SWL?	↓	→	
	8	Are the lifting accessories within their examination dates (colour code being used)?	↓	→	
ENVIRONMENT	9	Has a "pre-use" check been carried out on all lifting equipment?	↓	→	
	10	Is the ground stable & load bearing?	↓	→	
	11	Is there any evidence of underground services which may be affected? (Service maps, markers, manhole covers etc.)	↓	→	
	12	Is there sufficient clearance to any overhead hazards? 15m plus the length of the jib from steel pylons (9m plus the length of the jib from a timber pylon).	↓	→	
	13	Is there adequate clearance between the load and any structures?	↓	→	
	14	Are the weather conditions suitable for a lifting operation?	↓	→	
	15	Have all hazards been accounted for?	↓	→	
	16	Does the area need to be cordoned off for the lift?	↓	→	
	17	Is there sufficient clearance (30m) from any railway line?	↓	→	
PROCEED WITH LIFT					

Customer/Contractor Company Name:

I accept on behalf of the site and the customer/contractor named above that all relevant control measures have been implemented, that all details on this document are correct and therefore give permission that the lift can proceed.

Customer-Print name:

Customer- signature:

Telephone No:

Date:

Operator- print name:

Operator- signature

Competence card No:

Date:

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Site:					
Work Supervisor:					
Brief Description of the Work or material being delivered / uplifted:					
Schedule of 'Routine' Lifts					
Description of load	Approx. Weight (Kg)	Approx.		Method	Remarks
		Reach (m)	Height (m)		
Make: -					
Model: -					
Serial No:					
Test Certificate	Date of Last inspection:				
Lifting Capacity	Max Safe Working Load (Kgs)				
	Maximum Height (m) / load				
	Maximum Reach (m) / load				
Operator					
Name					
Competence	CPCS ☐ Or Equivalent Qualification if CPCS training is not available for plant.				
Valid Until					
Declaration					
Operator / Delivery Driver	I confirm that the risks and the safe system of work for undertaking the lifts have been briefed to me and if changes occur, I will stop work and advise the works supervisor of the changes.			Signature Date	
Work Supervisor	I confirm that I have checked the competency of the above operative and the certification and condition of the plant and equipment and briefed the above in the safe system of work.			Signature Date	

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Appendix C - Site works specific RAMS

Wheelwash offloading and installation and set- up.

SITE SPECIFIC METHOD STATEMENT

**Installation & De-Installation/Collection of
DriveOn V-Tech 20 Metre Dry Wheel Cleaning System At
C&S Energy BESS, Rownall Road,nr Werrington, Stoke-on-Trent, ST9 0BS**

Delivery 1/7/24

Prepared by David Crick, 4/6/24

Contents:

Page No:

1.	Introduction	2
2.	Scope of Work	2
3.	Hazards Identified	2
4.	Environmental Information	2
5.	Plant & Equipment	2
6.	Personnel	3
7.	Lifting Plan Methodology	3/4
8.	Briefing Arrangements	4
9.	Safety of Contractor's Staff	4
10.	Communication & Liaison	4
11.	Disaster & Emergency Plans	4
12.	Technical Data	5

SITE-SPECIFIC METHOD STATEMENT:

1. Introduction:

- **Purpose of work:** To install the wheel cleaning system on site to prevent mud, dust and detritus from leaving the site on vehicle wheels causing contamination to the surrounding public highway.
- **Brief description of how work will be carried out:** The wheel cleaning system will be delivered to and collected from site using a flat-bed lorry with mechanically assisted loading and unloading (Hiab).

2. Scope of work: The system comprises of 4 Roadway Sections – 1 x 3m Entry Ramp, 1 x 3m Exit Ramp, and 2 x 7m Flat Roadway Sections each with 4 Box Safety Barriers. The installation, collection and removal require no mechanical plant other than mechanically assisted loading and unloading (Hiab) on the delivering vehicle. The works will be deemed completed once the unloaded vehicle leaves the site with the wheel cleaning system safely installed.

3. Hazards Identified: AMERESCO representatives are conversant with site conditions and the following potential issues and conditions are considered in compiling this document.

- Leptospirosis
- Manual handling
- Worksite activities (more than one contractor)
- Not aware of site specific operational requirements
- Services including temporary electrical installations
- Working at heights
- Working with mobile plant
- Control of lifting operations
- Traffic routes and segregation of vehicles and pedestrians
- Contamination to ground water by spillages

4. Environmental Information:

- **Waste and Pollution including control measures** – EcoGreen Plant Hire Ltd is not responsible for cleaning out any of the contents of the wheel cleaning system. It is AMERESCO *sole responsibility* to arrange for collection and removal to a suitably licensed waste disposal facility as and when necessary which should be before the contents reach the underside of the V bars.
- **Noise, Dust, Smoke & Vapour including Control Measures:** Refer to AMERESCO Method Statement for works.
- **De-Watering Arrangements & Disposal of Water:** Not applicable.
- **Fuels, Oils etc.- Storage & Containment:** Refer to AMERESCO Method Statement for works
- **Habitats & Sites of Special Scientific Interest:** It is AMERESCO *sole responsibility* to identify habitats and sites of special scientific interest.
- **Contaminated Land:** Refer to AMERESCO Method Statement for works.

5. Plant & Equipment: Flat-bed rigid lorry with mechanically assisted loading and unloading (Hiab) facility and lifting accessories to include 1 x 4 leg chains and sling hooks, 1 x set of 2t webbing slings, 1 x 3.25t bow shackle, 1 x 3.25t D shackle.

6. Personnel – Contractors & Sub Contractors: Delivery driver/Hiab operator, installation operatives, slinger/signalman, banks man, site supervisor, site engineer and lifting operation appointed person.

7. Lifting Plan Methodology:

- i. **Arrival at Site:** The delivery vehicle (Hiab/flat-bed lorry) will arrive at the site entrance and announce his arrival to the site security personnel who should be instructed to advise the site supervisor. The driver will then be directed to a park-up location and the operator and his slinger/banks man will report to the site office with all relevant paperwork and certification documentation.
 - ii. **Setting up the Safe System of Work:** All works are to be carried out within the boundaries of the site.
 - iii. **Issue of a Permit for Lifting Operation:** Prior to the commencement of lifting operations a Permit for Lifting Operation is to be completed by AMERESCO lifting operations appointed person.
 - iv. **Dry Wheel Cleaning system installation to site from transport:** The area of work is to be cordoned off to prevent entry by uninvolved personnel.
 - The delivery vehicle (under control of a banks man) will move into position parallel to the location of installation, leaving sufficient room between the vehicle and the centre connector collars of the flat roadway sections of the unit, thus, allowing the Hiab outrigger support legs to fully extend without interfering with the lift. This central position should enable the box safety barriers and flat roadway sections to be lifted off without the vehicle having to move.
 - The load, having been pre-slung, will have the shackle in position at the side of the load to allow the crane hook to be attached by the driver whilst standing on the ground.
 - The hiab operator will extend his crane into position over the shackle and placed into “safe” mode once in position.
 - The Hiab crane operator should then attach his four leg chain to the shackle. A tag line should be attached to the flat roadway to ensure full control of the load during lifting.
 - All personnel should stand clear of the lifting area and the complete load should be lifted off the vehicle so that it sits symmetrically in the centre of the intended location of the unit. Once the driver/ crane operator signifies he is happy with the positioning of the unit the lifting tackle may be disengaged by the slinger.
 - The box barriers should be removed from the top of the load by slinging with two straps (as opposed to chains) by the slinger. All four box barriers should be stacked on the ground away from the flat roadway sections in such a way that they can be slung together or individually installed with two straps at the final lift.
 - The separate sections – 2 x roadway and 2 x ramps - of the system are then individually “un-stacked” using the chains and tag lines, and individually positioned to make up the installed system.
 - The final lift should position all four box barriers into the sleeves located in the base of the flat roadway sections, using the webbing slings.
 - Once the wheel cleaning system has been unloaded from the vehicle and the outrigger legs retracted, with the crane in transit position, the slinger or banks man should remove the cordon and allow the vehicle to leave site.
 - For further information or pictorial representations of the above operations please visit our web site at www.ecogreenplanthire.co.uk.
- 8. Briefing Arrangements:** Details of this method statement will be briefed to all parties during the mandatory site induction. All attending personnel are to sign a briefing confirmation sheet to signify that they fully understand all aspects.

- 9. Safety of Contractor's Staff:** Risk assessments are attached as an appendix to this report and shall be discussed at the briefing. Minimum site PPE to be worn by *all* operatives - white hard hats, high visibility clothing, safety boots (not rigger), goggles and gloves.
- 10. Comfort of Contractor's Staff:** Ameresco should provide Ecogreen visitors, as well as our haulier's staff, with access to welfare facilities for the duration of their visit to the site.
- 11. During the current covid19 emergency, Ecogreen personnel and haulier personnel shall assist in lessening the chance of coronavirus infection by:**
- Observing all AMERESCO specific temporary site safety regulations
 - Wash and/or sanitise hands before going onto site
 - Maintain a 2m distance from everybody whilst on site including during the off-load/installation
 - Wear a face mask

- 12. Communication & Liaison:** Identify specific persons who must be contacted

Ameresco
Mayer Site Manager
EcoGreen Plant Hire Ltd
• Haulier: D Bratt & Sons

Gary Tabner 07586-691560
TBC
David Crick 07899 702925
Will Cooke 0161 439 8124

13. Disaster & Emergency Plans

Organisation	Details	Contact Number
Police	Emergency Number	999
Fire	Emergency Number	999
Ambulance	Emergency Number	999/112
Health & Safety	Emergency Number	TBA



14. Technical Data:

Sloping Ramp On/Off:

Sloping Ramp On/Off:

Width 3.4m
Length 3m
Depth – Variable to .225m
Weight 0.5 tons

Flat Roadway with V Bars:

[illegible]

Flat Roadway with V Bars:

Width: (ext. without Box Barriers 3.4m)
Length: 7m
Depth: 0.225m
Connecting Box Section: .200m x .100m
Lifting Eyes x 4 tested to 1.5 Tolerance
Welding to BS EN 287 & BS EN 288
Removable Box Safety Barrier x 4 – 6.8m long
Weight: Roadway 1.8 tons
Weight: Box Safety Barriers 0.25 tons
Cubic Capacity: Debris Collection Area 2.75m

Flat Roadway with V Bars:

[illegible]

Flat Roadway with V Bars:

Width: (ext. without Box Barriers 3.4m)
Length: 7m
Depth: 0.225m
Connecting Box Section: .200m x .100m
Lifting Eyes x 4 tested to 1.5 Tolerance
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Cubic Capacity: Debris Collection Area 2.75m

Sloping Ramp On/Off:

Sloping Ramp On/Off:

Width 3.4m
Length 3m
Depth – Variable to .225m
Weight 0.5 tons

Please sign below to confirm that you have read and understood this Site-Specific Method Statement:

Installation Supervisor:

Full Name:

Signature:

Driver/Installer:

Full Name:

Signature:

RISK ASSESSMENT: DriveOn V-Tech Waterless Wheel Cleaning System
CONTRACTOR/SITE: C&S Energy BESS, Rownall Road, nr Werrington, Stoke-on-Trent, ST9 0BS

ASSESSOR: David Crick
Date: 1st June 2024

HAZARD	RISK	WHO IS AT RISK & RATING	CONTROL MEASURES
Site Traffic	Personal Injury	The contractor/client staff Low	Ensure all working areas are coned off during installation and removal from site. Site entrance appears wide enough to allow passage of traffic during installation and removal. Check with site management after start on site for any changes in entrance configuration.
Items on the Floor	Trips & Falls	The contractor/client staff Low	Ensure no items left on floor. All personnel are CSCS card holders.
Manual Handling & Hand Tools	Personal Injury	The contractor/client staff Low	Correct training in handling techniques. Ensure tools are fit for purpose.
Falling Items & Working at Height	Personal Injury	The contractor/client staff Low	Ensure items stored correctly during use. Chains have shackles instead of hooks. Ensure appropriate PPE (e.g. hard hat, safety footwear etc.) is worn, harness/fall arrest rope used and if climbing above 1.7metres additional bean bags or airbags considered.
Electricity	Electric Shock & Electrocutation	The contractor/ client staff Low	Ensure all PAT certificates on electrical equipment are current. Check for overhead power lines when crane is in use.
Fire	Personal Injury and/or Damage to Property	The contractor/client staff Low	No smoking or naked flames. Ensure that contractor is aware of fire arrangements.
Covid 19	Personal Infection	The contractor/client staff Low	Wash and/or sanitise hands before going on site. Wear a face mask. Observe minimum 2m distance rule at all times whilst on site including during the offload and installation.

Severity Rating: High (H), Medium (M), Low (L)

Appendix D – Site Temp Welfare Layout Drawing.



1 SITE PLAN
Scale: 1:500

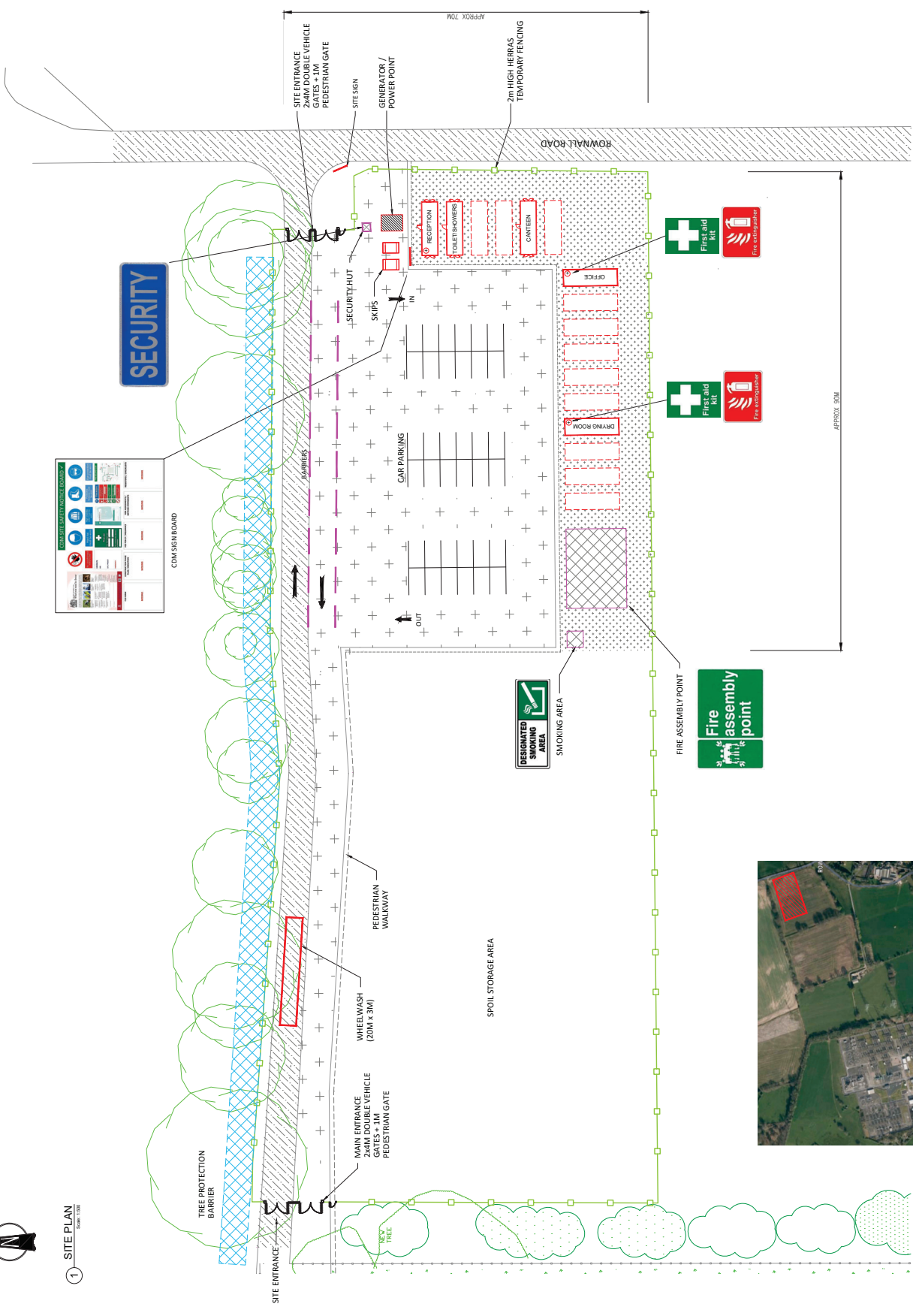


SECURITY

- INITIAL SITE SETUP ACTIONS**
1. FORM INITIAL SITE BOUNDARY WITH HERAS FENCING AROUND STONED SITE OFFICE AND CARPARK AREA.
 2. INSTALL TREE PROTECTION, GUARDING AND CONSTRUCTION ENTRANCE INSTALL SITE ENTRANCE WARNING SIGNS.
 3. FORM NEW SITE ENTRANCE CONSISTING OF CREATING A BELL MOUTH, DIGGING AND LAYING THE AGGREGATE WITH A TARMAC COVERING AND KERB LINE (NOTIFY HIGHWAYS WITH SECTION 50)
 4. LEVEL GROUND AND COMPACT STONE FOR SITE OFFICES, WELFARE FACILITIES, WITH ADJACENT OFFICE PARKING
 5. DELIVER SITE CABIN AN WELFARE FACILITIES
 6. EXCAVATE/OUT ACCESS ROAD FROM BELLMOUTH TO MAIN SITE ACCESS.

KEY:

- TREE PROTECTION ZONE
- TARMAC ROAD AREA
- TEMP STONE ROAD / AREA
- STONE / GRAVEL WELFARE AREA
- FIRST AID POINT



AERIAL VIEW SHOWING REDLINE SITE BOUNDARY
GREEN WATCH SHADOW VIEW EXTENDED LAND
(NTS)

Author:	Signed for Revision: A				
Checker:					
Approver:					
Version:	ISSUED BY	ISSUED DATE	APPROVED BY	DATE	
A	GG	03/06/2024			
PRELIMINARY					
AMERESCO Green • Smart • Sustainable					
GLUEPOD Ranger House, Walnut Tree Close, Gairford, GU1 4UL Tel: 020 3542 8300 Fax: 020 3542 8301 Email: info@ameresco.com 14-16 Downgate Hill, London, EC4R 2SU					
Client:		Project Name:		Site Address:	
ATLANTIC GREEN		C & S ENERGY BESS		SITE WELFARE & CDM LAYOUT	
Scale:	1:350	Drawn by:	N/A	Checked by:	GG
Drawn on:	300318-16-AME-BE-XX-CV-0416	Revision:	A		

Appendix E – Wheelwash Details.

Waterless Wheel Cleaning System

Wash
is a **Dirty**
Word!



The DriveOn V-Tech Dry Wheel Cleaning System from EcoGreen Plant Hire Ltd

- No water to provide, waste or dispose of
- No water course contamination, or freezing or icing
- No power required and no emissions
- No extra kit to hire – no pumps, generators, bowzers, lances etc
- No supervision required, and no breakdowns
- Reduces road sweeper hire, because it doesn't make more mud!
- Up to 60% less surface area than other dry types

www.ecogreenplanthire.co.uk

0800 130 3437 | info@ecogreenplanthire.co.uk



EcoGreen Plant Hire Ltd