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Southend Road
Rettendon Common
Essex CM3 8DZ

METHOD STATEMENT / RISK ASSESSMENT

OPEN BORE PILES

Description: The construction of bored piles in both restricted and non-restricted access situations, using specialist hydraulic powered tracked rig. This MS/RA to be read in conjunction with MS/RA for use of plant and deliveries.

SITE REF: 16049	ADDRESS: 115-119 Goldhurst Terrace, London	ISSUE NO: 1	DATE: 18-Sep-18
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<p>GENERAL: Ensure you have all your PPE, safety equipment and safety signs prior to starting.</p> <p>ENSURE THERE IS ALWAYS AT LEAST 2 PEOPLE IN ATTENDANCE WHEN OPERATING/MOVING THE PILING RIG. NO LONE WORKING AT ANY TIME</p>	<p>SAFETY EQUIPMENT + PPE TO BE USED:</p> <ul style="list-style-type: none"> Safety Helmet, Footwear, Goggles/Specs & Gloves Fluorescent Jacket / Hi-Vis & Ear Defenders Overalls Safety Harness First Aid Kit Rebar Protection Caps.
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Ensure that The Site has been set up by The Client / Main Contractor in accordance with the PCM/RA notes - especially piling mat / fencing / security / access and welfare. If it has not, do not start work and contact your Contracts Manager immediately.

Ensure that Safety Plan and all job start-up information is included with the start up pack. Take delivery of materials, plant etc. checking against those itemised in the start up sheet. Damaged / missing materials and plant must be logged on the delivery docket and the buying department informed. Always check plant is operational before the delivery driver leaves site.

L = Likelihood	Low - Unlikely to occur - 1	1
	Medium - Likely to occur - 2	2
	High - Very Likely to occur - 3	3
S = Severity	Slight Injury - Minor cuts and bruises - 1	1
	Serious Injury - Hospital treatment, more than 3 days off work, could result in long term ill health	2
	Major injury - over 24hrs in hospital, multiple serious injuries Fatality - 3	3
T = Total	2 Low - No further assessment required	
	3 Medium - Controls required, M/S may be considered part of the risk Assessment	
	4	
	5 High - Additional controls required - Task specific M/S should be produced	
	6 Exceptionally High - Additional controls, task specific M/S and specific task briefing required	

JOB SPECIFIC:

<p>Upon arrival ensure that all welfare provisions are in place, all security fencing and signage are erected, any obvious hazards have been highlighted in the PCM notes and the project is ready.</p>
<p>Read through PCM notes and brief operatives on specific hazards highlighted</p>
<p>When taking delivery of materials ensure loading and unloading MS/RA is adhered to.</p>
<p>Ensure that weekly plant inspections are kept up to date and report any defects to the office immediately.</p>

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		L	S	T		L	S	T	
Obtain overhead / underground service drawings and visually identify areas of potential services									Main Contractor
Use a CAT scanner to identify any electrical, gas, water, cable television / telephone utility services etc. and hand dig to expose these.	Risk of electric shock, burning injury, fire, explosion, flooding, gas inhalation and fatality.	2	3	6	Ensure the operator of the CAT scanner is competent and trained. Ensure suitable fire extinguisher available on project.	1	2	2	Main Contractor
Careful excavate by hand areas around suspected services.	Risk of electric shock, burning injury, fire, explosion, flooding, gas inhalation and fatality.	2	3	6	Take care in the 1st 500mm of excavation, never use pick axe or other sharp implements.	1	3	3	Main Contractor
ENSURE ALL SERVICES LOCATED ARE VISIBLY MARKED AND PROTECTED									Main Contractor
Mark out and begin to break out concrete at pile positions if applicable.	Vibration white finger	1	2	2	Ensure HAV assessment completed and adhere to trigger times.	1	2	2	Main Contractor Keyman All operatives
	Injury to eyes, hearing	2	2	4	Wear ear defenders and goggles at all times	1	2	2	Keyman All operatives
Set out pile position using 450mm long pin suitably tagged with pile number	Injury caused by tripping over or falling on to pin	2	2	4	Ensure pin is clearly marked and a protective cap is placed on top.	1	2	2	Main Contractor Keyman
Check fluid levels in power pack / rig, run up plant and check for leaks	Damage to hearing	2	2	4	Ensure suitable hearing protection is worn	1	2	2	Keyman All operatives
	Inhalation of fumes	2	3	6	Ensure area is properly ventilated and respiratory protection is worn	2	2	4	Keyman All operatives
	Environmental damage due to leaks	2	2	4	Ensure spill kit is readily available to contain leaks	2	1	2	Keyman All operatives
	Dermatitis etc	2	2	4	Ensure COSHH assessment is in place and guidance followed.	1	2	2	Keyman All operatives
Track rig to pile position	Overturning of rig	2	3	6	Only track over level ground with mast raked back, ensure working platform certificate is completed if required	1	3	3	Main Contractor Keyman All operatives
	Crushing of personnel / damage to property	2	3	6	No plant movements to take place without banksmen	1	3	3	Main Contractor Keyman All operatives
Set up rig over pile position ensuring mast vertical.									Keyman

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Commence drilling	Entanglement in augers or rotating machinery	2	3	6	Ensure all guards are in place and all personnel are visible to operator. Ensure augers are stopped prior to approaching	1	2	2	Keyman All operatives	
	Cuts and bruising	2	1	2	Ensure gloves are worn	1	2	2	Keyman All operatives	
	Injury caused by manual handling augers etc	2	2	4	Ensure manual handling assessment carried out prior to lift and follow controls	1	2	2	Keyman All operatives	
Finding human / animal bones	Weils disease, Anthrax, tetanus	1	3	3	Ensure good hygiene standards are maintained and any wounds are adequately dressed.	1	2	2	Main Contractor Keyman All operatives	
Examine arisings and check that they coincide with those soils anticipated, if not stop and contact the office immediately.									Keyman	
Continue this process until designed depth is reached									Keyman	
Remove spoil arisings from work area.	Slips trips and falls due to proximity of spoil heap to work area.	2	2	4	Ensure arising periodically moved to stockpile / skip and all areas kept clean and tidy.	1	2	2	Main Contractor Keyman All operatives	
Withdraw augers and (if using mini rig) neatly stack to one side	Injury caused by manual handling augers etc	2	2	4	Ensure manual handling assessment carried out prior to lift and follow controls	1	2	2	Keyman All operatives	
	Injury caused by material falling from auger	2	2	4	No personnel to approach auger until directed to do so by rig driver, visually inspect auger prior to approaching to ensure free of loose material.	1	2	2		
Check pile depth and verticality using tape and torch or computer.									Keyman	

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Install reinforcing cage to required cut of level, secure and install anti heave sleeve if required.	Injury caused by manual handling.	2	2	4	Ensure manual handling assessment carried out prior to lift and follow controls	1	2	2	Keyman All operatives
	Cuts and abrasions due to sharp steel	2	2	4	Wear gloves and ensure all exposed areas are covered	1	2	2	Keyman All operatives
	Injury caused by falling onto cages.	2	2	4	Ensure protective "mushrooms" placed on all bars.	1	2	2	Keyman All operatives
Ensure local authority has inspected piles, record this.									Keyman
If pile is not to be concreted immediately cover pile bore with suitable protection and ensure it is clearly marked.	Entrapment of feet in pile bores resulting in falls and or injuries.	2	2	4	immediately cover pile bore with suitable protection and ensure it is clearly marked.	1	2	2	Keyman All operatives
Immediately prior to concreting check pile bore using torch									Keyman
Place concrete and bring up to 300mm above cut off level	Cement burns	2	2	4	Ensure COSHH assessment is in place and guidance followed.	1	2	2	Keyman All operatives
	Tripping over reinforcement and open bores	2	2	4	Ensure work area is clean and tidy and all piles / bores are clearly marked and there is adequate lighting	1	2	2	Keyman All operatives
	Manual handling	2	2	4	Ensure manual handling assessment carried out prior to lift and follow controls	1	2	2	Keyman All operatives