

CFA Piling Method Statement



Site Address	Weir House Riverside Lane Uxbridge UB8 2YF				
Prepared by	 Neil Miller	Contract	260318	Date	03/07/2026

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1. Site Details

Proposed start date:	October 2026	Anticipated duration:	Approx. 2-3 weeks
Site hours Mon – Fri:	08.00-17.30hrs	Drawing No:	

2. Scope of Works

Installation of 450mm diameter CFA bearing piles. All piles to be set out and constructed as per clients Drawings. Site Datum and existing levels along with PPL levels to be confirmed prior to works starting on site. Piling platform will be set at a minimum of 700mm above Pile Cut Off Level by the Ground worker and levels given for debonding. The Main Contractor must advise levels prior to piling commencing.

3. Sequence of Works

1. Following site specific induction.
2. Delivery of the piling rig and ancillary equipment to site.
3. Set up of agitator and concrete pump.
4. Rig up of piling and install the augers.
5. Pile Plots as they are prepared and ready.
6. Derig and tidy equipment.
7. Load and remove equipment from site.

4. Site Team

<u>Role</u>	<u>Name</u>	<u>Phone</u>	<u>Email</u>
Visiting Supervisor	Simon Tapsell Neil Miller	07771 961910 07768 840193	simont@neilfoundations.co.uk neilm@neilfoundations.co.uk
Operatives	TBA TBA TBA	TBA	N/A
Neil Foundations Systems	Office	01252 550222	piling@neilfoundations.co.uk

All operatives will have copies of their operator certificates on site.

All Neil Foundations Systems (NFS) staff are CSCS trained along with relevant CPCs training for plant on site, Piling Rig, Concrete Pump, Slinger Signaller and MEWPS.

Most of NFS staff have also received emergency at work first aid training.

5. Plant and Equipment

<u>Quantity</u>	<u>Item</u>	<u>Comments</u>
1	Soilmec Piling Rig	Certificate will be provided
1	Compressor, hoses and tools	
1	Static Concrete Pump	
1	Augers	
1	8x5' Storage Cabin	
1	Pressure Washer	
1	Fuel Bowser	

Regular weekly checks will be carried out by the foreman on all of the equipment listed above. Any immediate problems will be communicated directly by phone to the office.

No operative is permitted to operate any form of plant unless they have received appropriate training and have been authorised by NFS to do so.

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6. Mobilisation/Demobilisation

The Piling Rig will be delivered to site on a semi low loader, our own operatives will be with the machine to unload and supervise all traffic and pedestrians. Boards will be with the rig to lay under the tracks to prevent damage to the road surface when unloading. Delivery times will be dictated to Neil Foundations Systems (NFS) upon application to the authorities for a movement order but NFS will endeavour to deliver the rig after the morning work and school run, the Piling rig will be delivered prior to any other equipment to suit site situations.

All ancillary equipment will be delivered by hiab lorry which will drive directly onto site and unload under our supervision. Only the delivery drivers are allowed on the lorry beds when following their company rules, NFS Operatives are not allowed onto lorry beds unless safety guards are in place.

The rig will be tracked onto the piling platform and rigged up on the piling mat, it will be erected and rigged ready for use as per the manufacturers hand book.

A concrete pump and agitator will be set up at the front of the site just off the piling area so that ready mixed concrete can access with ease and stay on the haul road.

7. Site Specific

The site is to be prepared by the Main Contractor ensuring that all services are either terminated or diverted and that a Designed piling platform has been constructed to suit the rig loadings provided.

Prior to works starting on site our foreman will request a signed copy of our permit to dig form and also read through this method statement along with our operatives and then once understood the gang will sign and return the method statement brief sheet (attached). The Main Contractor will carry out site induction to include site emergency procedures.

The Main Contractor will also be responsible for providing access roads to the working area.

Main Contractor will also ensure that the site is fenced with hoarding or similar to keep the site safe and to prevent intruders or children entering the site. Main Contractor must also ensure that piling areas are segregated from other site operations and personnel.

Main Contractor are to ensure that all pile positions are free from underground obstructions (footings or services) along with ensuring that there are none overhead (power lines or tree canopies) and that there is clear and sufficient room around the front of the piling rig of at least 800mm. Main Contractor will also be responsible for protecting any existing buildings / landscaping that is to remain on site or neighbouring properties.

The Main Contractor will be responsible for wheel washing and if need be street cleaning.

8. Method of Working

NFS will seek authorisation to commence excavation/installation from the Main Contractor in the form of a Permit to Dig or equivalent. This will confirm that any known services on site have been made safe or have been positively marked, The Main Contractor will be responsible for CAT scanning the area and finding and moving all services along with capping off any drainage.

Prior to the commencement of piling works each day, the concrete pipeline will be adequately lubricated with a concrete/primer mix. The cement concrete/primer will be mixed with water in a tub to a fairly thick consistency. The lubricating mix will be poured directly into the pipeline, and the concrete will follow immediately. The concrete will be pumped slowly through the lines until it flows freely. All concrete pipes will be connected with couplings secured with safety clips and all metal to rubber and rubber to rubber joints must also be fitted with whip checks.

The piling rig will be set up over the pre-marked pile location, using datum's provided by others; Working from a firm, dry, level piling platform the piling rig is positioned over the pile location, defined by a length of reinforcing

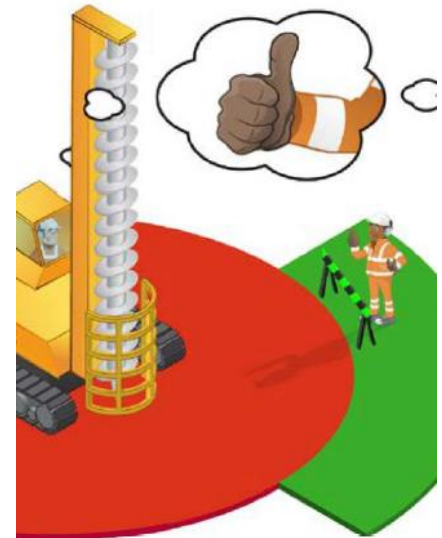
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bar driven into the ground. The auger will then be brought onto position and checked by the use of reference points in two directions. Before auger penetration commences the mast will be checked for verticality by observing attached levelling aids. The verticality of the mast will be adjusted hydraulically using slewing rams. The pile will be checked for verticality when it has been drilled approximately 0.5m; any positional adjustments will be made now.

Each time before any of the site team approach the piling rig a visual check should be made of the augers, Kelly bar and auger cleaners to ensure no spoil or debris has been missed and could fall.

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Once the rig has been set up and levelled over the pile position and prior to drilling commencing the banksman/ piling rig attendant should then stand clear of the piling rig at a safe distance but still remain in view of the rig operator and be able to maintain view of the auger and hydraulic lines feeding the drill head. The bigger the distance the better but at least 5.0 metres away from the front of the rig. All other operatives / site personnel should be kept minimum 10.0 metres away from the piling rig while the augers are turning.



Drilling will commence and the operator will set the DMS to depth of the pile and the pile number. The DMS will record all pile depths, numbers and the amounts of concrete and pressures that were installed.

Hearing protection is to be worn by all operatives.

During the drilling process should at any time the auger encounter and obstruction at any depth the drilling process should be stopped and the auger withdrawn from the bore. Site management will be informed along with the piling contacts manager and the NFS site foreman will await further instruction.

The gates on the front of the rig are to remain closed throughout the drilling process unless the full depth of the auger is required. Should full depth be required the gates will remain closed until the auger string and Kelly bar have drilled as far as possible. Rotation must then cease while the gates are opened. With rotation ceased the gate latch handle will be inserted into the socket on the latch and the gates carefully opened by the banksman keeping hold of the handle at all times and not letting it swing. Once the latch has released the handle should be removed and stowed safely and the gates swung open wide to allow the drilling head to pass through. Once the pile depth has been achieved and the head and Kelly bar have been pulled back above gate level the rotation should cease again allowing the gates to be closed. The gates are to be swung back to the central position and the locking handle inserted to close the latch. With the gate latch closed then the handle must be removed from the latch and stowed safely ready for next use. At no point on site should the rig be operated with the latch handle in place.

Once the auger has been confirmed to have attained its required depth on the operator's console, it will then be withdrawn slightly to allow the opening of the delivery valve on the base.

Concrete will then be pumped through the delivery lines and down the centre of the auger. Where applicable the rate of concrete delivery will be determined by the rig operator. Auger withdrawal will then commence and proceed until the bore has been fully concreted and the pile formed. The rate of auger withdrawal will be

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determined by NFS (being dependent on auger size, ground conditions etc.) to ensure an oversupply of concrete compared with theoretical pile volume.

Borespoil is removed from the auger by mechanical auger cleaner (where practicable) during extraction of the auger. During the auger withdrawal process should any pile spoil manage to miss the auger cleaner and start to rise above the banksman should indicate to the driver to stop and drill back down the pile to allow a second pass of the auger cleaner.

The piling rig then moves to the next planned pile position which would generally be a minimum of 3 pile diameters away.

Steel reinforcement as specified in the pile design will be placed directly into the concreted pile bore by either the auxiliary winch line on the rig or by the attendant excavator or by hand (dependent on cage weight). The bottom 2m of any cage may be tapered for ease of installation.

The attendant excavator will be used to install the cages. Should the excavator require a lifting chain our operatives will supply one on site along with a copy of the test certificate. The excavator should be fitted with a lifting eye.

When using the attendant excavator to install cages then the bucket must always be removed first.

After removing the pile spoil and cleaning the pile head the bucket will be removed from the excavator and the drop chain attached to the pile cage approx. 1m from the top, the cage will then be lifted to the vertical position and the banksman will guide the excavator over the pile bore and signal to lower the cage into the bore. As the cage is lowered into the bore the banksman will guide and keep the cage central. When the cages comes to rest within the wet concrete the excavator will lower his arm to below the lifting point and take tension on the drop chain, at this point the banksman will stand clear of the cage to a safe point minimum of 3m away but still stay within view so as to be able to guide the excavator driver and ensure the cage is plum.

The excavator will then pull the cage into the pile under the direction of the banksman until the excavator arm reaches ground level (PPL). Tension will then be released and the banksman will remove the drop chain from the cage. The excavator will then reattach his bucket to enable pushing the cage to ground level (PPL). With the bucket reattached to the excavator the banksman will guide the bucket to above the cage and then stand clear min 3m to allow the excavator to push or tap the cage to ground level.

At No point should the banksman try to stand on the cage helical the assist with pushing in the cage and at No point should the banksman hold onto the cage while being pulled or pushed by the excavator.

If for any reason the cage seems too reluctant to enter the pile bore and excessive tension is required then the cage should be removed from the bore and the pile rebored and concreted and the cages reinstalled.

After the cage has been installed should the cage need to be centralised then either rebar caps or a short plank of wood should be placed on top of the rebar before the cage is trodden on. At the end of the process the pile should be highlighted or covered over.



If the pile is to have a central bar installed that is supplied in sections (due to the length) then the proprietary frame [See Picture 1] should be used to support the reinforcing bar that is in the bore. The frame should be first adjusted so that the gap is 2-3mm larger than the reinforcing section and so that the coupling will rest on the frame preventing the bar to fall to the bottom of the pile.

This frame will support the bar whilst the next section is being screwed onto the coupler.

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The banksman will also ensure that no other persons are allowed within 3 metres of the work in progress. All operatives to get the "Thumbs Up" with the plant operator when working in the vicinity of/ or approaching the attendant excavator.

Piles will be constructed to the following tolerances:-

+/- 75mm on plan at piling platform level
1:75 verticality

At the end of piling works each day the storage mixer drum and concrete pump are washed out using the diesel jet wash. Also the concrete pump line is 'blown out' using the compressor, excess concrete will be blown into an empty hole that will be drilled out daily. This is to prevent concrete from being splashed as the blow out ball exits the bottom of the auger. All excess concrete is removed using the attendant excavator and will be removed from site along with the pile spoil by the main contractor.

If any of the concrete lines become blocked the use of the blowout launcher and catcher are essential to use on both ends of the hose. The concrete lines will need splitting and separating from the rig and pump. The concrete hoses should be tethered to the excavator parked at the opposite end of the concrete hose restraining the hose to prevent the concrete hose from whipping. Once the compressed air has been discharged into the concrete lines **ALL** air must be vented via the valve on the gun enabling the air and pressure to be released. At no point must anyone remove the gun from the line until it has been proven that the air has been vented by the gun.

9. Concrete Pump and Agitator

Where on site we are to use a concrete pump and agitator drum then they are only to be used by a trained and competent operative. (Refer to NFS Cleaning Concrete Pumps Working Procedure.pdf)

10. Reinforcement Steel

Reinforcement steel for the works will be delivered direct to our yard or site from a CARES supplier, with all appropriate certificates being supplied under separate cover.

All reinforcement will be delivered to site in max one ton bundles of loose bar and will then be fabricated on site using sub contract steel fixers.

Where possible the steel should be lifted onto the trestles using the delivery hiab lorry.

The fixing trestles are to be set up on site on an area set aside, away from any construction activity/vehicle/plant movement.

The trestles are to be situated on an area of firm, dry, level ground that is suitable for stability of the trestles when the steel is placed upon them.

Trestles could be extended at the base by the insertion of "stability riggers" if required.

Dependent on the size of the cage to be constructed, the correct number and size of re-bar i.e. 20mm/25mm etc are then rolled onto the outside of the trestles.

The helical is then spun over the bars to the full length of the cage and spaced at centres as per the design drawing.

2 No. bars are then left on the top whilst the others are lowered carefully into the bottom of the helical. Note: Up to 4 operatives spaced evenly along the length of the cage can be used for this task.

The bars are then lifted manually and tied using steel fixers tying wire at the correct centres as specified on the drawing.

The cages are then lifted off using the site attendant excavator or manually depending on weight and moved to the designated storage area.

The procedure stated above is then repeated for all pile cages.

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Please refer to Neil Foundations Systems Piling Risk Assessment RA06 Steel Fixing.

Caps will be placed on ALL vertical reinforcement to prevent risk of impalement (IF installed protruding above piling mat level).

11. Integrity Testing

Integrity testing will be carried out, if required. The trimming of piles to cut-off level (no earlier than 5 days after installation) and preparation of pile heads is by others. Care should be taken when excavating and trimming piles to prevent damage.

12. Health & Safety

NFS employees will operate in a safe and diligent manner at all times in accordance with their Health & Safety Policy.

PPE will be worn at all times whilst on site:

- Hard Hats to BS EN 397
- Gloves to BS EN 388
- Hi Vis to BS EN 20471
- Boots to BS EN 345 or BS EN 20345
- Goggles (to BS EN 166 B) for cutting and grinding
- Ear Defenders to (BS EN 352 – 3). When working within 5m of plant min snr 25-30
- Safety glasses when operating pump. (to BS EN 166 F)

Additional PPE will be worn for site specific work as required by the Risk Assessment; Overalls, Safety Glasses (to BS EN 166 F)

Health & Safety is monitored daily by the foreman and any incidents, accidents or near misses are investigated promptly.

Site Inspections are carried out by the Safety Advisor on a regular basis; any findings are passed on to the relevant Manager for action.

All employees are encouraged to report any accidents, incidents or near misses to the Safety Advisor; the Company operates a 'No Blame' culture in respect of these reports.

Risk Assessment document (Piling NFS Risk Assessments.docx) and COSHH document (COSHH NFS.docx) are applicable to this project and are issued as part of the commencement documentation.

13. Environmental Controls

The skips, water bowser and licensed carriers will be provided by the Main Contractor, unless otherwise is stated in the contract.

- Operation should only take place within specified working hours.
- General waste shall be deposited into designated skips.
- Special waste, such as oil contaminated materials, used oil spill kits, etc. shall be disposed of by a licensed carrier.
- Fuel/ oil spills should be prevented. Drip trays and emergency oil spill kits shall be used to catch and clean the spills/ leaks. Oil spill kits contain colour coded bags to contain any used spill equipment. These shall be disposed of by a licensed carrier.
- The vehicles shall not be run unnecessarily. Engines shall be extinguished when not in use.

14. Emergency Contacts

<u>Role</u>	<u>Name</u>	<u>Phone Number</u>
Managing Director	Neil Miller	01252 550222
Visiting Supervisor	Simon Tapsell Neil Miller	07771 961910 07768 840193

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Safety Advisor	Lawrence Ford	02380 649651
Neil Foundations Systems	Office	01252 550222
Medical - A&E Department	999	
Medical - Defibrillator	Site	
Electricity	www.energynetworks.org/info/faqs/who-is-my-network-operator London, South East & Eastern England: Southern England:	0845 601 4516 0800 048 3516
Gas	National Gas Emergency	0800 111 999
Water	www.water.org.uk/customers/find-your-supplier Southern Water: Thames Water:	0800 820 999 0800 714 614
Telecoms	Openreach	0800 023 2023
Environmental	Environment Agency Incident Hotline	0800 807 060

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15. Method Statement Briefing Attendance Sheet

Print Name	Date Attended	Signature	Comments
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			

I HAVE BRIEFED THE ABOVE PERSONNEL ON THE FOLLOWING METHOD STATEMENT:

Title		Ref No	
Signed		Company	
Print Name		Date	

When completed, return this form to the Site Foreman