

505-511 Archway road - Works Package Plan

Contract Information					
Project Name:	505-511 Archway road			Project Number:	25214
Project Address:	505-511 Archway Road, London, N6 4HX				
What3Words:	0			Title:	Works Package Plan
Rig:	Soilmec SR30 4297			Task:	CFA Piling
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Cannon Piling Internal Approval							
Rev	Prepared By	Signed	Date	Checked By	Signed	Date	Status
0	Shaun Prill		21/09/2026	George Newton		21/09/2026	Approved

Revision History			
Rev	Author	Date	Changes
0	Shaun Prill	21/09/2026	Initial Draft

Cannon Piling Approval Sign Off				
Name	Position	Signed	Revision	Date
Shaun Prill	Contracts Manager		0	21/09/2026

Principal Contractor / Client Document Approval Sign Off				
Name	Position	Signed	Revision	Date

By accepting this Method Statement, the Principal Contractor / Client are to follow this during our works. The Principal Contractor is not relieved of statutory obligation to provide, monitor, and revise their safe system of work during the progress of the task. Any revisions to the document must be agreed with Cannon Piling prior to execution with agreed notice period minimum of three days.

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Relevant Task Briefings (these are appendised and form part of this Works Package Plan)	
	This project will have specific task briefing sheets. Appendix to this Works Package Plan, please find: TB104 - Safe Use of Concrete Pump Agitators TB107 - Use of a MEWP TB739 - Bosun Rigging Method TB740 - Bosun Chair Rescue Plan TB102 - Refuelling TB103 - Welding, Cutting and Burning Operations TB117 - Use of Hand Tools TB110 - Use of Pressure Washer TB114 - Excavator in Attendance to Piling Activities TB116 - Setting Out CFA Piles Additional Task Briefing as required by Site Supervisor: • • •

1	Project Information	
1.0	Specific Site Details	
	Cannon Piling have been instructed to undertake the installation of #N/A 143xx 300mm load bearing piles , The site will be maintained, with suitable boundaries, by AJ Group . All deliveries and placement of machine and plant will be agreed with prestart meetings. Any movement will be liaised onsite between site team and supervisors. Concrete will be delivered from the most suitable batching plant for emissions, working time and delivery leads. All piles will be designed & constructed in accordance with contract specification & construction drawings. tbc	
1.1	Proposed Working Arrangements	
	Proposed Start Date	Proposed Working Hours
	June 2026	Monday - Thursday 07:00 - 18:00 Friday 07:00 - 16:30 Saturday (subject to arrangement) 09:00 - 13:00
1.2	Expected Construction Duration	
	10 working days Sequence: tbc This proposal is subject to working conditions, plant malfunction, ground conditions and various contributing circumstances. Arrangements may be arranged to alter, extend, or work additional hours and can be discussed with the contracts manager.	
1.3	Exact Location (Plan) of Works	
	tbc	

0

tbc

0		
1.4	Sequencing and Programme	
	Item	Description
	Mobilisation	Delivery and site establishment: 1 CFA bored piling rig Associated drilling equipment 2 (augers and consumables) 3 Reinforcement 4 Static concrete plant 5 Additional plant
	#N/A	1 Bore all CFA piles 2 Concrete all CFA piles 3 Reinforce all CFA piles Change auger diameter as necessary throughout the job ## #N/A ## #N/A ## #N/A ## #N/A
	De-Mobilisation	Collection of 1 CFA bored piling rig Associated drilling equipment 2 (augers and consumables) 3 Reinforcement 4 Static concrete plant 5 Additional plant
	Please note this is only used as a guideline, subject to ground conditions, site constraints & attendance capabilities and does not form part of the contract agreement.	
1.5	Scope of Works	
	Piles Designed By:	Cannon Piling

Piling Platform Designed By:	Cannon Piling
Piles Constructed By:	Cannon Piling
Drawing Reference:	0
Pile Types:	Load bearing piles #N/A
Method:	Continuous Flight Auger (CFA)
Pile Summary:	tbc
Cage Summary:	tbc
Strata Summary:	tbc
Rig(s):	Soilmec SR30 4297
Labour:	3 operative per rig (minimum)

2	Safe System of Works (Methodology)
2.0	Work Instruction
	Before any work starts, all operatives must: • Attend a site induction • Provide proof of competency • Ensure permits and all related paperwork are fully signed including Permit To Dig, Working Platform Certificate, Temporary Works Permits, WPP (RAMS) signed by the Principal Contractor, Author & all site staff working under the Works Package Plan. • All paperwork must be checked by Cannon Piling's Site Supervisor Each day, the team must: • Attend, understand and sign the daily briefing before commencing work • Complete all pre-start machine checks • Complete pile log / daily record sheet <i>Only when paperwork is completed with wet signatures may rig mobilisation take place.</i>

#N/A	
2.1	Mobilising on to Site
1	Ensure the working platform certificate and permit to dig are signed and issued by the principal contractor and the working area is adequately segregated from other trades.
2	Delivery of material to site must follow the Traffic Management Plan set out by the principal contractor. All deliveries to site must obey any site speed limits or other signage and use the appropriate routes. Concrete will be delivered direct to site to avoid delays to the supply. The rig will also be sent direct to site in compliance with the routing and transport movement orders, set out by the relevant authorities.
3	The piling rig will be delivered to site on a low loader. Using the abnormal load procedure, the approved transport routes and in line with the principal contractors site meeting discussions.
4	Hiab and Artic lorry(s) will arrive on site to deliver the concrete pump and the auxiliary equipment. These will be banked into position to unload, a lorry fall restraint will be placed around the lorry bed before the banksman accesses the lorry bed to start slinging. The pump operator will assist with the unloading and placement of the equipment in designated areas, making sure it is safe and secure. When unloaded the wagons will then be banked off site by the traffic marshal (supplied by others).
5	A reinforcement wagon will arrive to deliver the steel reinforcement which will be in bundles suited to the lifting capacity of the excavator / hi-ab. This will be banked on to site by the traffic marshal. The piling operatives will assist in unloading the steel, aided by the excavator, placed on bearers in the designated area. When unloaded the lorry will be banked off site by the traffic marshal.
6	The remaining plant and equipment will be delivered using either 40ft articulated or 28ft flat-bed rigid wagons. Cannon Piling will ensure all deliveries are pre-slung, where appropriate, with fall protection in place.
2.2	Site Establishment
1	Cannon Piling crew to be inducted by the principal contractor on arrival. All operatives will be made familiar with the new surroundings, site constraints, and site-specific hazards.
2	Cannon Piling's supervisor will brief the crew on mobilisation of plant, equipment, and materials along with site set up areas. All operatives to sign up to Daily Briefing.
	#N/A
3	Cannon Piling's supervisor will conduct a toolbox talk on lifting operations prior the works starting. All operatives to sign up.
4	Permits signed, briefed and issued.
	Note: All deliveries must adhere to the principal contractors Traffic Management Plan.
5	Cannon Piling to supply attendance contractor with a schedule of lifts, prior to site arrival
6	Lifting operations agreed with attendance contractor. All operatives to sign up to Cannon Piling's lift plan.
7	Plant and equipment positioned in agreed areas.

2.3	Rigging / De-Rigging Procedure	
	1	The rig will be mobilised in a designated area where a permit to dig and piling platform certificate is required and signed off before the mobilisation.
		#N/A
	2	The rig operator, with assistance of two banksman will change the machine from travel mode to working mode. See operator's manual for further method statements regarding rigging and operating the machine. The manual is stored inside the cab of the rig.
	Note: Hand signals to be used with lifting operations, moving plant/machinery and during any road vehicle activities. These signals will be used throughout this method of works to create a safe way of communicating. All signals to be established and confirmed during the briefing.	
	3	During this entire operation, the site is to be sectioned off from other workers/trades on site. Only authorised and competent Cannon Piling personnel and the attendant contractor to be permitted to work in the area (all operatives within the area to have been given and signed the daily briefing etc). The primary exclusion zone will be marked by the site boundary or where appropriate barriers with signs, ensuring that pedestrian routes and welfare areas are excluded from the working area.
	4	Activities of unbolting temporary travel frames, that require working at height will be achieved via a static 4 tread podium. Following this the rigs mast will be erected, auger guides lifted into position via attendance excavator and/or crane and concrete hoses connected.
	5	Augers will be lifted under the drill head via the attendance excavator or the piling rigs service winch. Once the two hex are placed together, a banksman will be lifted to a max height of 6m to place 2 auger pins to secure the connection via the rigs service winch with the use of a climbing harness, Bosuns chair and additional rescue procedure of a fall arrest block. This will be repeated until the auger string is complete.
	6	The attendance excavator will be used for lifting operations throughout this activity as detailed within the lift plan.
	7	De-mobilisation will be a mirror of this process of mobilisation.
2.4	Rig Calibration	
	When: • Monthly as a minimum or when a re-calibration event occurs • At the start of the project and before the first pile is constructed • The concrete pump is replaced • The auger string extended or reduced • The CFA rig is changed or reconfigured Items to be calibrated: • Mast level • Depth gauge • CFA DMS concrete filling instrumentation	
2.5	Setting Out Process - Engineer	
	A full time setting out engineer is required on site during the Piling Works The principal contractor must provide control data in DWG format prior to commencement. The setting out engineer may request early access to set up a control system	
	1	The setting out engineer will locate the position with the total station, marking target with 400mm H12 steel pin with mushroom cap and spray paint.
	2	The position to be recorded for as-built, if greater than 10mm out of position, setting out engineer to repeat step one and remark.
	3	The piling rig may move into position, drill and concrete as per steps in section 2.6.
	4	Once concrete pour is completed, the piling rig is maneuvered away and the attendance excavator clears the area of piling arising.
	5	The setting out engineer will survey and record the centre of pile position.
	Note: If it is out of position by 75mm they are to immediately report to the Cannon Piling supervisor for further instructions. The site supervisor will liaise with the technical engineers for advice and further instruction. Providing the pile is within tolerance, the piling operatives may install the cage. Spacers will be placed on the	

	6	cage and lowered into the wet concrete, centralised by eye to piling platform level or as design specification.
	7	The setting out engineer is to complete as-built survey and record final position
	8	The pile will be protected with reinforced mesh grill or similar.
	9	The as-built survey will be issued to hannahtadman@cannonpiling on a Friday for Cannon Piling's QA records.
	<i>Please see Setting Out Process in appendix.</i>	
2.6	CFA Auger String Assembly and De-Assembly	
	The assembly of CFA augers occurs at the beginning of the project and/or when a change of pile diameter occurs. Before the piling rig moves from transport mode to being rigged up the piling supervisor will ensure the FPS working platform certificate is signed off by the PC's TWC to ensure the platform has been installed and plate tested to confirm the platform has met the minimum ground bearing pressure needed to safely operate the piling rig as determined by BRE470 assessment. The team will undertake a pre-start check of the piling rig as part of the ongoing daily maintenance. The team will be required to fit the correct diameter inserts within the auger gates to suit the pile diameter, either by; adjusting the gate insert pads or removing and replacing the insert shells, which are secured via pins and/or bolts. The 360 attendant excavator shall provide lifting and placement of inserts. Before task is undertaken the lift supervisor will brief associated lift plan/s to all team members ensuring the lifting equipment operator understands who the primary slinger will be who he will receive instruction to lift, lower and slew during the lifting. Competent persons involved in task to CPCS or NPORS equivalent. •Lifting supervisor A62 •Piling rig operator A48 >20t •The slinger signaller A40a all duties will also be a trained Piling rig attendant A74. •Excavator operator A59A Excavator >10t with lifting operations A59C •MEWP user with IPAF 3b mobile boom The Use of 360 Tracked Excavator to Install Augers	
	1	The piling rig will be positioned in safe area on platform providing space to the front of the machine to enable access for the 360 attendant excavator delivering the augers to the auger gates and MEWP positioned to the side of the piling rig.
	2	The excavator shall be guided by the slinger signaller/ Piling rig attendant (SS/PRA) to the first auger to be installed on the rotary table.
	3	The SS/PRA shall sling the auger 2 flights down the auger flight from the top of the auger by choke hitching the auger with steel single leg chain (single choke – no risk of loss of load) see lift plan for further details.
	4	The SS/PRA will attach a tagline to the auger at upper 2 meters from base of auger and guide the auger into the auger gates.
	5	The SS/PRA shall close the gates to secure auger in a vertical position
	6	The single chain will remain attached to the auger. Excavator shall move arm down / out of the way from instruction by the SS/PRA.
	7	SS/PRA shall instruct the piling rig operator to lower the rotary table to engage the hex drive fully
	8	MEWP will be positioned to the side of the piling rig and operator will follow instruction from the SS/PRA
	9	MEWP operator will slew around to the front of the piling rig and fit the auger pins.
	10	Once auger is fully installed the MEWP operator shall remove the choked single leg chain from the auger and slew away from the piling rig.
	11	The SS/PRA shall instruct the Excavator operator to move away and adopt a position to the next auger

	12	SS/PRA shall open the auger gates and instruct the piling rig operator to lift the first auger to 8 meters / to enable the next auger (6m) to be installed.
	13	Repeat steps 3 to 12 until all augers are installed.
	14	Removal of augers is a reversal of the above procedure.
2.7	Rig to Setting Up to Pile Position	
	Boring of the pile location will only commence once the correct reinforcement cage has been confirmed as arrived or has been made on site and relevant checks against the drawings for that pile have been carried out, including checking the lifting point on the cage.	
	1	Load bearing pile position(s) will be marked by a 400mm re-bar pin driven into the platform vertically and referenced with a pile number written on the plastic mushroom cap, highlighted with line marker.
	2	A 3m exclusion zone will be set up before the auger is rotating.
	3	The piling rig is tracked into position under the instruction of the banksman/slinger ensuring the auger string is positioned centrally over the pile position.
	4	The bores must be installed at the exact position as set out and within our positional tolerance. The verticality of the mast must be checked frequently using either a spirit level or an inclinometer to ensure works are within verticality tolerance.
	5	If any deviation is observed, stop work and correct.
	6	The bore is to be drilled in the exact position identified by the pin or paint. If unachievable the work cannot start and this is to be discussed with Cannon Piling's line manager and the principal contractor.
2.8	CFA Piling	
	1	The piling rig is tracked into position under the instruction of the banksman/slinger ensuring the auger string is positioned centrally over the pile position. #N/A
	2	The hollow stem at the base of the digging head will be closed off with an expendable cap. During this operation the rig operative will immobilise the controls.
	3	With the mast in a vertical position and the auger closed, the auger top shall be lowered and maneuvered directly and precisely over the setting out pin. The mast foot shall then be lowered.
	4	The pile number shall be confirmed by the banksman and briefed to the rig driver, verbally. The rig driver enters the design depth into the rig instrumentation. Before drilling commences, the mast shall be inspected and checked for verticality in both X and Y axis by reference to the gauges on the side of the mast and by the display on the rig instrumentation.
	5	With the auger tip at ground level, the depth gauge is to be reset to zero. Pile depth entered the system
	6	Drilling can commence. Bore the augers to the required depth observing the rate of penetration of the auger. Should it not be possible to progress the augers down to the required depth, the auger string shall be reverse screwed out of the pile bore, the shaft backfilled, and further instruction sought.
	7	During the boring process the attending excavator shall clear away the spoil from the auger, at no point shall the auger stop for the operation to occur.
	8	Upon achieving the required depth, the auger string is withdrawn some 200mm to 300mm and a small amount of concrete is pumped to allow the expendable cap to be blown clear of the digging head. The pile will be re-bored to full depth to clean the base prior to extraction.
	9	Concrete is pumped through the hollow stem to the base of the auger and the pile constructed as the auger is withdrawn at a controlled rate, to the required over-break in relation the volume of the pile. As necessary, the auger string will be cleaned with the mechanical auger cleaner.
	10	As per the above, on extraction of the auger the attending excavator shall clear away spoil, relieving the potential of spoil travelling up the stem auger. At no point shall the auger stop for the operation to occur.

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|----|---|
| 11 | Once the auger is extracted the rig is backed away and the top of concrete is carefully cleared off to expose the clean, wet pile shaft. The reinforcement cages will be installed by lifting and plunging the cage into the pile with the aid of an excavator. |
| 12 | Following installation, the cage must be centralised and secured in place with mushroom caps placed over all exposed bars. |
| 13 | The exposed wet pile will be protected by a reinforced mesh grill or similar. |

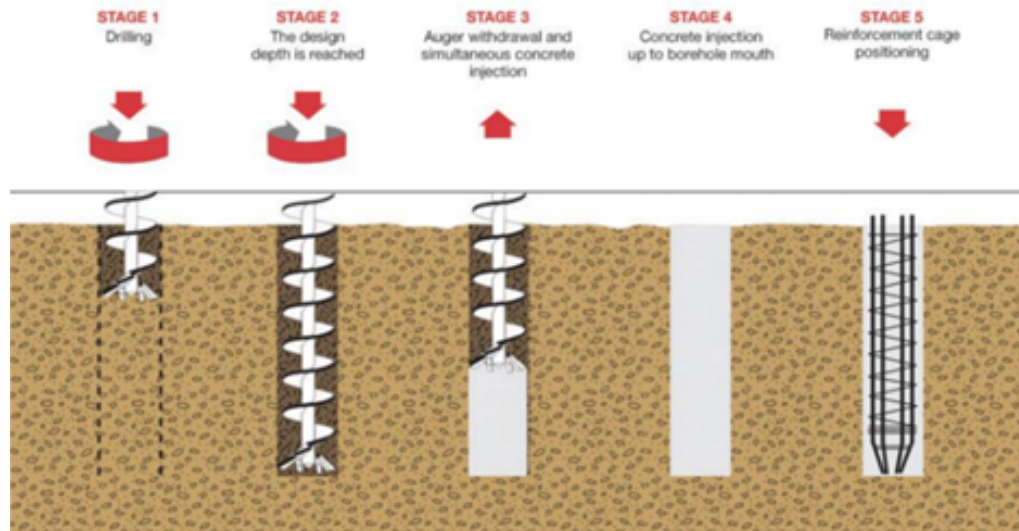


Figure 2.7.1: 5 stages for CFA Piling

#N/A

2.9

CFA Piling Concreting Procedure

- | | |
|---|---|
| 1 | Prior to the commencement of piling works each day, the concrete pipeline is adequately lubricated with a grout/primer mix. |
| 2 | The primer will be mixed with water and stored in a bulk 200L container. |
| 3 | This mix is poured directly into the pipeline before the first 10mm concrete delivery is pumped slowly through the lines until the concrete is flowing through the rig and the augers. |
| 4 | This priming process will reduce the chances of the concrete hoses blocking. |
| 5 | Each ready-mix delivery note will be checked prior to discharge against the pile design & mix design and accepted or rejected where applicable. Slump testing will be done if the concrete fails a visual inspection. |
| 6 | When signaled by the rig operator, concrete shall be pumped to the rig. |
| 7 | The concrete will then be dispatched into the hopper and pumped through the delivery pipe into the holding drum, furthermore, pumped into each pile shaft. |
| 8 | When the instrument confirms that the auger has been filled. The auger shall be raised the minimum amount to allow successful initial discharge under pressure of the pumped concrete. |
| | The rig operator shall be briefed on which technique is to be employed to control the rate of placing concrete: |
| 9 | a) Method 1, Positive Pressure
b) Method 2 over-supply (target range is also to be briefed) |
| | Generally and unless otherwise informed, method 2 shall be adopted. |

	10	As the auger is withdrawn, concrete shall be pumped through the auger stem to construct the pile. This stage of the operation shall be controlled by the rig operator using signals to the pumpman. The rig operator shall ensure that the withdrawal rate is not excessive and leads to loss of the auger tip embedment in concrete. The project engineer is to ensure that the rig operator is aware of the minimum and maximum over-supply target. When fitted to the rig, auto-lift for concreting shall be used.
	11	The rig operator shall monitor the following parameters: a) concrete flow, b) pressure, c) depth, d) rate of extraction.
	12	As the auger is nearing the top of the pile, the banksman shall observe that clean concrete is being flighted from the pile, before the appearance of the auger tip.
	13	When the concrete placement is complete the rig shall be tracked away from the pile to allow the attendance excavator to clear the spoil. The remainder of the spoil in the head of the pile, shall be removed by way of shovel, by the banksman.
<i>Please see Task Briefing Sheet TB104 Safe Use of Concrete Pumps for further details.</i>		
2.10	Piling along Party Wall Elevations	
	1	CFA piles are constructed by rotating a hollow stem continuous flight auger into the soil to a designed depth. Concrete or grout is pumped through the hollow stem, maintaining static head pressure, to fill the cylindrical cavity created as the auger is slowly removed.
	2	The bore is never left open and unsupported using this method. When working on a retaining wall (secant or contiguous) we will work in a hit and miss two sequence to avoid any merging of wet pile shafts.
2.11	Concrete Line Cleaning Procedure	
	Note 1: Cleaning the lines and clearing blockages is a potentially hazardous task, as workable concrete has a relatively short life. If the operator needs to open the delivery pipeline for any reason, he and others involved in the operation, must treat the line as being pressurised at all times, and appropriate hand and eye protection must be worn at all times. Note 2: The site supervisor and the pumpman are to ensure that ready-mixed concrete lorries do not wash out their chutes into the receiving hopper at any time. This can cause damage to the pump unit and affect concrete quality. Note 3: At no point shall ground lines and rig lines be blown out together in one go to remove existing concrete. Note 4: The blowing out process is to always be supervised by the site supervisor, other activities on site will have to wait whilst this is undertaken.	
	1	At the end of each day, the concrete hoses and augers are washed out after piling is complete
	2	All operatives will be notified when this sequence of events is taking place and no site personnel will be in this permitted area.
	3	The rig operator and pumpman shall ensure that any excess concrete is pumped through the lines in a normal manner, prior to cleaning. The line is then back pumped to relieve pressure, 5 reverse strokes.
	4	Prior to using any compressed air, the concrete line is de-pressurised by reverse pumping. Once complete the pipe connection at the hopper can be disconnected as well as the T-piece cap at the rear of the piling rig, releasing as much concrete via gravity as possible.
	5	The compressor is connected to the end of the concrete hose and pressure is built up to wash and blow out any concrete. This will be carried out in a safe manner with whip checks and safety pins.
	6	The blowout discharge can be controlled using a blowout chamber. This is positioned at the bottom of the auger stem to contain the discharge. A 6m exclusion zone shall be maintained around the blow out chamber.
	7	A hard sponge ball will be placed into the concrete hose at the hopper end and is then blown through the pipeline the ball will eject from the pipe at the rear of the machine into a secured blow out chamber, along with the excess concrete. This is repeated for the piling rigs static pipework and augers, the same blowout chamber will be used to cover the auger tip to contain the sponge ball and excess concrete.
	8	This process is repeated for a third time using water.
	9	All excess concrete will be removed by the attendance excavator
<i>Please see Task Briefing Sheet TB104 Safe Use of Concrete Pumps for further details.</i>		

2.12	Reinforcement - Site Fixing	
	1)	Reinforcement steel will be delivered in straight lengths of bar and bundles of helical. These will be stored in a designated area on timber bearers.
	2)	The steel fixers will make the cages on heavy duty stands, whereby a pack of straight bar will be loaded onto.
	3)	The cage will be fixed with annealed tying wire with sufficient ties to allow handling and placement.
	4)	Each cage can be removed from the fixing area by hand or via the attendance excavator
	5)	All reinforcement will be placed flush with the piling platform or lower, no steel should project above the level of the piling platform.
	6)	Waste management will need to be in place by the principal contractor to accommodate the helical, foam, slings and excess wire waste created by this activity.
2.13	Reinforcement Installation	
	1	The pile cage will be checked by the banksman before the pile is bored and again before lifting/plunging into the pile shaft.
	2	The cage is to be lowered down into the wet pile shaft, concrete cover spacers are to be place at the bottom, middle, and top of the cage. Please, see figure 2.7.1.
	3	Assistance of the excavator can be used in the way of tapping the cage down to the correct level
2.14	Concrete Cube Testing	
	• The concrete will be quality checked for use in accordance with the principal contractors inspection test plan and Cannon Piling's safe workability. Concrete shall be deemed suitable to pump by the pump operator and piling supervisor before it is used. • On site sampling and cube testing will be carried out to the principal contractor's and the design engineer's specification. • 1 set every 75m³ poured or one set a day. • Cubes will be taken and stored daily. • Slump, temperature and flow testing will be carried out to the principal contractor's and the design engineer's specification. • These tests to be carried out by the pump operator on every wagon load.	
2.15	Pile Integrity Testing	
	• After 7 day curing, the piles will be ready for integrity testing. It's the prinicpal contractor's responsibility to instruct Cannon Piling for testing via the testing inbox - testing@cannonpiling.com • The piles must be cropped, exposed and accessible for the engineer. • The pile may only be tested at a minimum of 7 days after pour. • 48 hours notice must be given for Cannon Piling to allow arrangement of testing engineer • It is the duty of the principal contractor to correctly label the piles for integrity testing results and for call off process. <i>Please see Integrity Testing Process for further details.</i>	

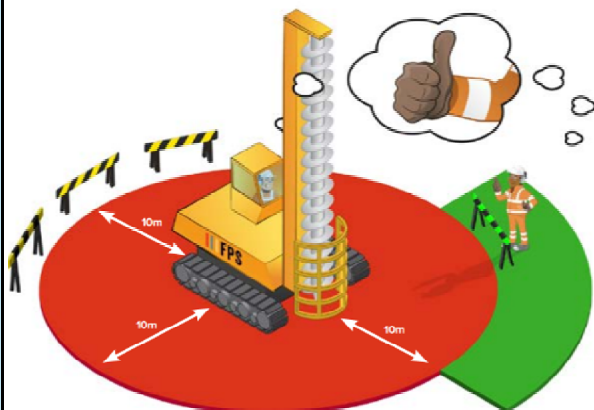
#N/A

3	Risk Assessments				
3.1	Hazards for Site				
	A full list of hazard controls / risk assessment to be found in the appendix. Hazards include but are not limited to: • Moving Plant • Concrete • Working at Height • Spoil Debris • Slips, Trips and Falls • Open Excavations • Lifting Loads • Overturning Plant • Unloading Deliveries				
	Hazard	Controls Specified	Hazard to be Briefed to		
			Piling Operator	Lifting Operator	Attendance Excavator / Banksman
	Rig Overturning or Collapsing	• A signed and checked working platform certificate must be in place prior to the rig being off-loaded. • Always limit the amount of spragging of the machine. • Ensure the rig is continually maintained as per the manufacturer's guidance. • Rig can only be operated when banksman of the machine is in attendance. • Piling mat has been designed and independently checked. • Daily visual checks will be made of the piling platform to confirm it remains in good condition. Damaged areas will be made good to the same specification and method as the original construction, revalidated by plate bearing tests prior to being put back to use. • Rig may only approach Network rail boundary parallel or to the perpendicular • Rig to be located and orientated to avoid any collapse risk on the Network Rail adjacent property.			
	Pipe Work	• All hoses inspected during the start and end of each shift. Part of the pre-start checks. • Flexible hoses on the rig to be connected via whip checks as a fall arrest. • Flexible hoses on the rig to be bagged, should the hose burst at height, concrete shall be contained within the bagged pipework.			
	Rotation of Machine Parts	• Auger cleaners must always be fully operational. • Auger guides to represent guards during rotation.			
	Lifting of Cages	• Operation to be carried out by trained, briefed and competent person. • All cages to have a dedicated lifting band on the cages. • All lifting will be within 75% of the SWL of the machine and lifting accessories.			

	Open Excavations	• Piles to be covered immediately following construction. • Wheeled plant must not travel over wet constructed piles. • Covered and cones to be used in substitution for spoil. • Marker such as spray paint to identify cast pile.												
	Concrete Burns	• PPE to be worn. • Eye wash points to be identified in the site induction.												
	Working with Wet Concrete and Other Construction Related Hygiene Hazards	• Ensure correct PPE is worn – minimum glasses or full face visor during blowing out the concrete lines; plus - impervious gloves, long sleeve hi-vis clothing, helmet • Suitable and sufficient welfare and hygiene arrangements. • Wash off any skin contact immediately and if required change contaminated PPE/clothing.												
	Moving Plant	• All plant to be always accompanied by a banksman. • People plant segregation. • Training and familiarisation. • ‘Thumbs up’ policy to apply at all times.												
	Falling Spoil Debris	• Auger cleaner to be always fully functional. • Auger cleaner to be regularly maintained and inspected (pre-start). • Site and soil specific auger cleaner.												
	Protecting Network Rail Assets	• All servicing, refuelling and storage of machinery will be as far from the network rail boundary as site constraints allow. • If hard obstructions are encountered, seek further advice from network rail before proceeding.												
	Un-Loading Deliveries	• Operation to be carried out by trained, briefed and competent operator. • Clients TMP adhered to. • Banksman when maneuvering vehicles. • Walk the course.												
	#N/A													
A full risk assessment is located in the appendix.														
3.2	COSHH													
	All items in the COSHH/materials will be stored in the appropriate containers, stored on site and disposed of later. COSHH items includes but is not limited to: <table><tr><td>• Diesel</td><td>• Grease</td><td>• Spray Liner</td></tr><tr><td>• Hydraulic Oil</td><td>• Ready Mix Concrete</td><td>• Engine Oil</td></tr><tr><td>• Pump Primer</td><td>• AD Blue</td><td></td></tr></table>					• Diesel	• Grease	• Spray Liner	• Hydraulic Oil	• Ready Mix Concrete	• Engine Oil	• Pump Primer	• AD Blue	
• Diesel	• Grease	• Spray Liner												
• Hydraulic Oil	• Ready Mix Concrete	• Engine Oil												
• Pump Primer	• AD Blue													
Full list of materials with Data Sheets to be found in COSHH document in the appendix.														

3.3	Manual Handling
	Activities such as clearing concrete from top of pile shaft, lifting concrete hoses, light cages and general lifting and carrying of equipment. In-house training provided to all Cannon Piling operatives. Where available mechanical lifting aids to be used. avoid - assess reduce
3.4	People Plant Segregation (Exclusion Zones)
	Any personnel wishing to communicate with a plant operator should approach in the operator's line of sight and wait in a safe location, preferably 10m distance until they have been seen. In certain situations the exclusion zone will be reduced to 2-3m if the site constraints dictate that a larger zone is impractical. The rig operator must ensure the rig is placed in a safe condition before the authorised person may enter the "red zone" The thumbs up policy is a simple gesture to ensure communication has been received and the authorised person may then approach. The same approach is to be use for all operations including excavators, hi-ab movements and pump operations. This is a standard produced by the FPS to help health and safety of all personnel on site. Further information can be found: FPS-RESTRICTED-ZONE-HANDBOOK_A6_14029.pdf The piling rig will be set up with a primary exclusion at the front and rear of the piling rig and where practical the piling area will be segregated from other trades as a secondary exclusion zone. <i>Primary Zone</i> 1) Will constitute 4-5 barriers with appropriate signage to the front of the piling rig, allowing access to the auger for the attendance to manage the pile arisings. 2) 1no. barrier to the rear of the rig with appropriate signage. <i>Secondary Zone</i> 1) Barriers and appropriate signage with only authorised personnel entering the working area.

CFA/RIGID INCLUSIONS RESTRICTED ZONE



Red Zone: The Rig Operator must ensure the rig is placed in a safe condition before an Authorised Person enters the Red Zone. The operator must give a 'Thumbs up' to the Authorised Person wanting access confirming it is safe to enter before they enter the Red Zone.



Green Zone: Rig Operators sight line (safe approach), optimum Rig Attendant position.

Note: People entering the Red Zone must be aware of and consider the increased risk of falling objects and plant movements from other plant such as excavators and dumper trucks.

Due to the worksite layout, it might not be possible to maintain a 10m barrier distance behind the counterweight of the rig. In these situations a minimum distance of 2m must be established at all times.

CONCRETE PUMP RESTRICTED ZONE



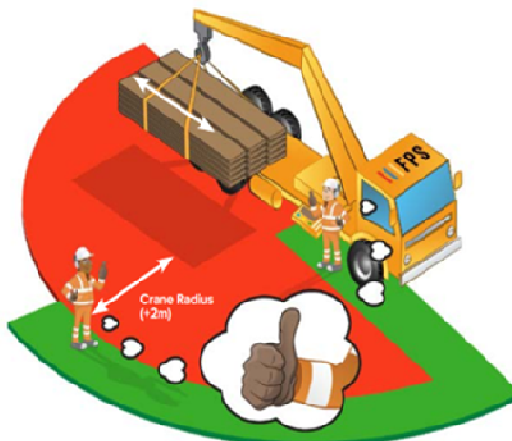
- ✗ **Red Zone:** Authorised Person only (pump operator) - this zone must include barriers to demarcate the area. 2m controlled zone from the outer edge of the concrete vehicle when reversing.
- ✓ **Green Zone:** Always signal 'Thumbs up' to the pump operator and or concrete delivery driver and receive a positive 'Thumbs up' response before entering. Keep in driver's line of site when reversing the truck, always get the 'Thumbs up' before entering Red Zone.

MEWP (BOOM) RESTRICTED ZONE



- ✗ **Red Zone:** Keep out of this area at all times. Except in emergency situations.
- ✓ **Green Zone:** Always signal a 'Thumbs up' to the Plant Operator and receive a positive 'Thumbs up' response before entering Red Zone.

LORRY MOUNTED CRANE (HIAB) RESTRICTED ZONE



- ✗ **Red Zone:** Keep out of this area at all times. Authorised Person (slinger/signaller) only. This zone should be determined by the working radius of the lorry mounted crane plus 2m (factor load size - ie piling cages length).
- ✓ **Green Zone:** Always signal 'Thumbs up' to the Plant Operator and receive a positive 'Thumbs up' response before entering Red Zone. The Red Zone is determined by the operators position (some may have remotes).

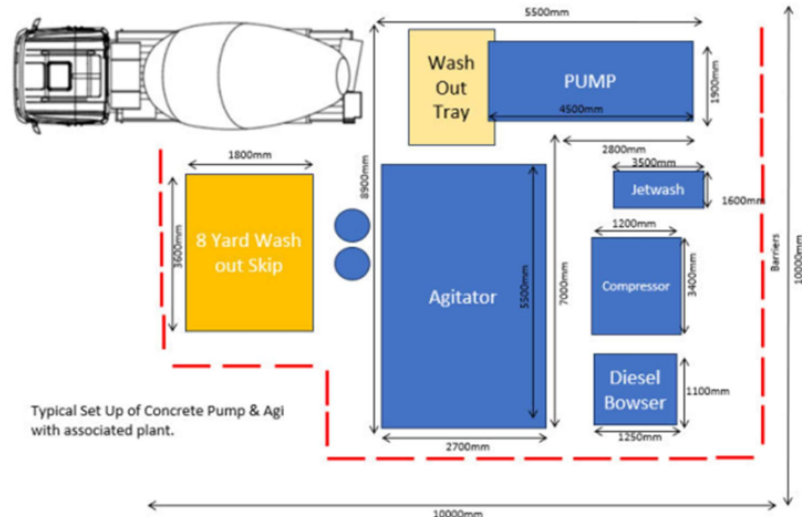
Note: Red & Green Zone illustrated may differ depending which side the load is being lifted.

Do not walk beneath elevated loads.

3.5	Noise								
	Piling rig, concrete pump and holding drum and deliveries are primary noisy works. This will be minimised by keeping the machine switched off when operations are on break/hold, and using plant on lower revs when available. Hot works activities create noise. This will be monitored when in use through the hot works permit; this activity will be sporadic, and for short periods of time, for example using a metal cutting saw to cut a length of re-bar. Ear protection to be worn. All noisy works will be undertaken within the site hoarding, between the working hours agreed as above Please see Noise Risk Assessment appendix to this Works Package Plan.								
3.6	Hand Arm Vibration								
	Vibration from the auger drilling is minimal as rotary boring techniques are being used For the limited time a petrol saw, and an impact gun is used during a 10 hour shift from a 4 person crew, HAVS register will not be required.								
3.7	Vibrations								
	CFA & bored piles have similar levels of vibration to standard site tracking plant, so the level of vibration anticipated because of the works is considered negligible. CFA & bored piling are techniques used to minimise vibration, we would expect the site excavators, rollers etc to create greater levels of vibration. Monitoring of ground vibration to be undertaken by the principal contractor if required								
3.8	Lifting - General								
	All lifting operations will be undertaken in accordance with the agreed excavator lift plan. All lifting operations will be supervised by a competent person and all lifting accessories and equipment will be certified. The attending excavator shall be used to install the cages into the freshly cast concrete. <table border="1"> <tr> <td>1</td><td>Each cage will be inspected prior to lifting to ensure all connections are intact and secure. The lifting tackle will be attached as per the lift plan.</td></tr> <tr> <td>2</td><td>The cage will then be centered over the wet pile shaft and plunged into the pile.</td></tr> <tr> <td>3</td><td>The lifting chains will be detached, and the cage will be further lowered into the pile to the required depth by means of the attendance excavator, and finally centralised.</td></tr> <tr> <td>4</td><td>This sequence shall then be repeated for all piles throughout the works.</td></tr> </table> Any piling rig auxiliary ancillary lifts will be covered under the 12 monthly thorough inspection & the piling rigs operators manual. <i>A Site Specific Lift plan will be issued upon the receipt of the attending excavator LOLER/12 month certificate.</i> <i>This will be issued separately.</i>	1	Each cage will be inspected prior to lifting to ensure all connections are intact and secure. The lifting tackle will be attached as per the lift plan.	2	The cage will then be centered over the wet pile shaft and plunged into the pile.	3	The lifting chains will be detached, and the cage will be further lowered into the pile to the required depth by means of the attendance excavator, and finally centralised.	4	This sequence shall then be repeated for all piles throughout the works.
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3	The lifting chains will be detached, and the cage will be further lowered into the pile to the required depth by means of the attendance excavator, and finally centralised.								
4	This sequence shall then be repeated for all piles throughout the works.								
3.9	Working Near Underground Services								
	It is the principal contractors responsibility to provide location drawings and identify any underground utilities in the area as in alignment with HSG47. A representative from the principal contractor must sign Cannon Piling's permit to break ground in full before any piling works can commence.								
3.10	Working in Close Proximity to a Boundary Wall								
	The auger will be cleaned by a mechanical auger cleaner to remove majority of the bulk and fine debris. The mechanical cleaner is located 1m above ground level ensuring the debris does not climb higher than this. When working near a boundary wall, the principal contractor will supply hoarding, the loose debris should not fall from a height greater than the hoarding supplied. The excavator will clear away spoil to avoid muck build up in the area, ensuring it's not pushed over the critical boundary. When working adjacent to a boundary occupied by others, for example footpath, public common areas and car parks, the principal contractor is to provide managed segregation and pedestrian management of a 5m exclusion zone, managed with barriers and traffic marshalls. Protection and cleaning of sensitive horizontal and vertical surfaces to be the responsibility of the principal contractor.								

	#N/A	
3.11	Working with Electronic Devices	
	Mobile phones, personal radios and earphones are prohibited. These devices should be stored away in a safe place. Black hat operators may use a mobile phone if necessary, in allocated safe areas or within the machine cab when machine is stationary and controls disarmed. Safe areas will be identified by the principal contractor in the induction	
3.12	Site Location Details	
	Address	505-511 Archway Road, London, N6 4HX
	Photos of Site Entrance	0
	Deliveries and Access to Site	The principal contractor's traffic management plan should be adhered to at all times, including the use of segregated walkways for access onto and around the site. All deliveries to site must obey any site speed limits or other signage. All deliveries to be pre-slung with flat beds having edge-protection prior to arrival.
3.13	Site Set Up	
	The piling rig will be mobilised to site on an articulated abnormal load, low loader and the associated equipment on rigid Hi-ab wagons x 3 under a permit, following approved transport routes. Please note that due to Highways/Local Authority restrictions, the rig may be subject to out of hours delivery times. Once known, delivery times will be notified to AJ Group . The low loader will park primarily on site where possible, due to the size of the abnormal load, the rig may require off loading on the highway. Traffic marshals, road and curb protection to be supplied by the Principal Contractor. The piling rig will be maneuvered off the trailer and tracked to an area with a firm, level platform suitable for rigging <u>Pedestrian Routes</u> Pedestrian, site plant and their interface to be highlighted in the site induction, where all operatives will familiarise themselves with the new environment. <u>Site Layout / Establishment</u> Details of the location of Cannon Piling static plant and materials will be discussed following a site visit, by a contracts manager, and a plan marked to agreed set-down areas. This will include the Network Rail boundary and to agree rig locations and orientation to avoid any risk of collapse onto the Network Rail property. Any cages or casings to be stored away from the agreed Network Rail Boundary.	

General Site Set Up as shown below



3.14 Rig Spec Details

Concrete lorries require concrete chutes to be clean before driving offsite.

Concrete from delivery trucks shall be washed out into a polythene lined skip provided by CP, water will evaporate / be taken up by the concrete and any surplus will be disposed of once the PH has been brought within acceptable levels using PH Blue as required.

At the end of each day CP will be required to clear the concrete pipes via an air compressor, blow out box and sponge ball.

This concrete will have to be discharged onto the platform where it can set and be broken down the following morning.

The wash out from the pump hopper also needs clearing at the end of the shift, this will be discharged into a purposed built polythene tray which can be broken down and disposed of the following morning. The tray is to be re-used daily.

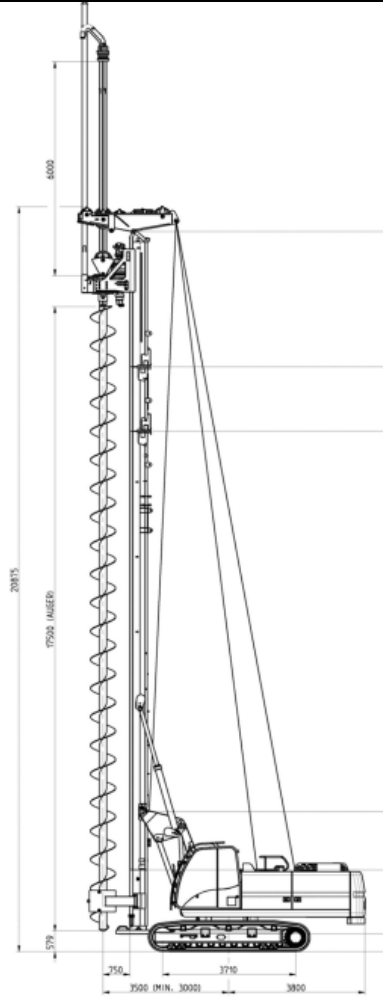
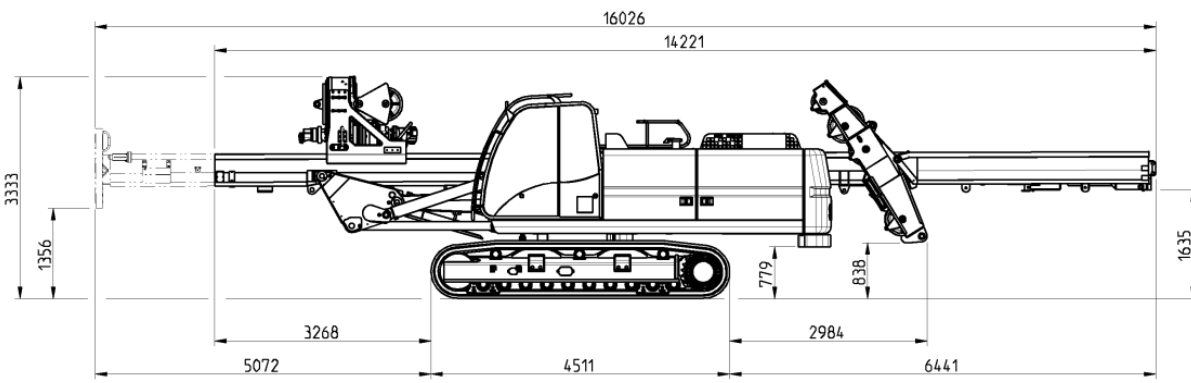
While concrete waste is not a concern, the cleaning method of required water can cause the watery slurry to migrate and cause environmental issues.

Where practically possible is to indicate areas of wash out waste that are either polythene lined or banded to avoid contamination spread.

Any polythene lined skips are to be managed by others.

CP site attendances package provided by PC will include the provision of a plastic lined concrete washout skip plus a Silbuster RCW / Bluerinse system to capture & treat concrete washout which can then be safely disposed of by PC.

Concrete from delivery trucks shall be washed out into a dedicated washout station and the PH adjusted using Silbuster or PH Blue technology before safe disposal on site, use of chemical dosing will be kept to a minimum with the aim to capture the majority of the washout water within the solid concrete waste in the plastic lined concrete skip.

3.15	Rig Spec Details		
	Rig	SR30	Working Configuration 
	Serial Number	4297	
	Operating Details	Dimensions	
	Max Pile Depth (m)	23	
	Max Pile Diameter (mm)	750	
	Mast Height (m)	24	
	Length (mm)	7305	
	Width (mm)	3700	
	Weight (T)	36.5	
	Torque (kNm)	130	
	Engine Stage	3b	
	Transport Details	Dimensions	
	Length (mm)	12430	
	Height (mm)	3379	
	Width (mm)	2550	
	Weight (T)	35.5	
Transport Configuration			
			

	Bearing Pressures				
	(Bearing pressures detailed below are based on the worst case scenario; specific details will be provided on the Working Platform in line with BRE470)				
	Operation	BRE Load (Case)	Length	Width	UDL
	Standing	1	3.29m	0.6m	105kPa
	Travelling	1	3.29m	0.6m	105kPa
	Handling	1	3.17m	0.6m	115kPa
	Penetrating	2	3.26m	0.6m	80kPa
	Extracting	2	3.01m	0.6m	155kPa
	Standard Plate Testing Regime				
	One plate test every 400m2 or one plate test per platform, tested to a minimum of 1.5 x the highest load case two pressure. Plate load test to be undertaken with a 600mm dia plate with less than 5mm displacement. This testing regime must be carried out on all road and ramps, anywhere the rig has to traverse during the works.				
#N/A					

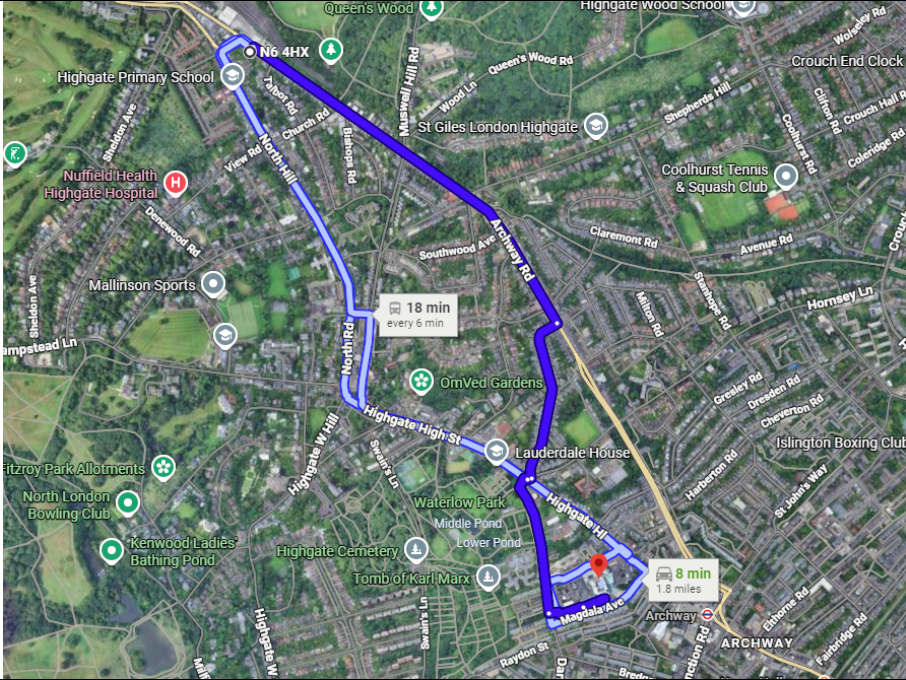
4	Resources			
4.1	Cannon Piling Personnel			
	Name	Position	Email Address	Contact Number
	Alistair MacDonald	Director	Alistairmacdonald@aarsleff.co.uk	07990 006182
	George Newton	Operations Director	George@cannonpiling.com	07899 918617
	Duncan Penning	Commercial Manager	Duncanpenning@aarsleff.co.uk	07990 006610
	Shaun Prill	Contracts Manager	Shaun@cannonpiling.com	07514 206390
	Stuart Thornton	Contracts Manager	Stuartthornton@cannonpiling.com	07471 517372
	Henry Newton	Estimator and Pile Designer	henry@cannonpiling.com	01245401333
	Hannah Tadman	Contracts Engineer	hannahtadman@cannonpiling.com	07881 370206

	Mark Hardy	Safety Advisor	MarkHardy@aarsleff.com	07443 270222
	John Scarff	Transport Manager	John@cannonpiling.com	07820 853772
	Josh Wicks	Yard Operations Manager	Josh@cannonpiling.com	07721 373653
	Ashley Tokley	Plant Manager	Workshop@cannonpiling.com	07939 446667
	Ellie Groom	Admin Assistant Apprentice	EllieGroom@cannonpiling.com	07831 098981
	Site Operatives are to be confirmed on Day One of the project commencing			
4.2	Training of Persons Involved			
	Position		Competence	
	Site Supervisor		SSSTS/CPCS lift supervisor	
	Rig Operators		CSCS/CPCS rig	
	Slinger/Signallers		CPCS/NPORS all types - all duties	
	Concrete Pump Operators		CPCS/NPORS concrete pump operator	
	Steel Fixer		CPCS/NPORS steel fixing	
	Excavator c/o AJ Group		CPCS/NPORS excavator operator with lift and carry	
	Dumper c/o AJ Group		CPCS/NPORS excavator operator	
	All operatives to hold relevant qualifications for the tasks within their role. Operatives will also hold the following additional qualifications:			
	• Manual Handling • Working at Height • Abrasive Wheel • IPAF 3B			
4.3	Supervisor Details			
	All works are to be organised through the contract manager, who for this project is Shaun Prill , contactable on 07514 206390. Cannon Piling's on site supervisor for this project will be confirmed nearer to the time, usually on day one			
4.4	Plant/Equipment/Tools			
	Piling Rig	Required - Cannon Piling - Soilmecc SR30 4297		
	Concrete Pump	Required - Cannon Piling		
	Compressor	Required - Cannon Piling		
	Jet Wash	Required - Cannon Piling		
	Static Drum	Required - Cannon Piling		
	Lifting Accessories	See Chains - Foreman's LOLER		
	MEWP	Not Required		
	Diesel Bowser	Required - Cannon Piling		
	Steel Fixing Trestles	Required - Cannon Piling		
	Hand Tools	Required - Cannon Piling		
	Storage Container	Required - Cannon Piling		
	Ready Mix Concrete Wagons	Required - Cannon Piling		
	Delivery Wagons	Required - Cannon Piling		
4.5	Technical Information			
	Please refer to the following: • Cannon Piling Pile Design • Latest Drawing • Site specific induction from the principal contractor. • Traffic Management Plan • Soil Investigation(s)			

	• Piling Platform Design/Working Platform Certificate (Permit to Load) • Permit to Break Ground • Pre-Start Checks • Friday Pack Information to be kept within the onsite folder.
4.6	Waste Management
	Waste management must be in place by the principal contractor to accommodate the helical, foam, slings and excess wire waste created by the steel fixer. Piling auxiliaries will also generate waste. COSHH waste to be placed into designated bins provided by others. Skips and bins to be provided, monitored and regularly replaced by others.
4.7	Housekeeping and Storage
	Housekeeping will be ongoing, and the positioning of materials and equipment will be shown in a site phasing plan if necessary. During the mobilisation, materials will be stocked and stored, on bearing timber and pre-slung. Concrete will be stored in a static concrete holding drum, located within the allocated laydown area
4.8	Attendances and Facilities for Subcontract
	The following attendances and facilities shall be provided and maintained at all times (including additional working hours) for the duration of and in relation to the specialist works, free of charge and in a manner that does not disrupt or restrict the regular progress of the specialist works. Main site attendances to be provided by other as follows: • Full welfare facilities in line with CDM 2015 Schedule 2 • Water supply at mains pressure (or garden hose pipe) • 13t minimum excavator and dumper in attendance for removal of pile risings • Task specific and background lighting • Setting out to all pile positions by engineer • Car parking for one Cannon Piling van • Secure site hoarding • Protection of works, roads and adjoining buildings • Regular checks to the pile mat and haul road conditions • Level piling mats and haul roads to every work area • Removal of any obstruction and/or relocation of pile positions • Probing of pile positions in advance of works • Provided skip/area for geeral rubbish and excess waste • Pile mat construction, testing, maintenance and sign off • Concrete washout facilities; road sweeping and cleaning; wheel washing; gate and traffic management Please see below the link to FPS Attendances https://www.fps.org.uk/content/uploads/2017/05/FPS-Schedule-of-Attendances-and-Facilities-July-2015.pdf
5	Working Arrangements
5.1	Permits Required
	All permits to be signed before work commences. <u>Working Platform Certificate (to be signed weekly)</u> • The Working Platform will be plate tested and undergo daily/weekly inspections by site supervisors. The supervisor will address changes with the principal contractor to ensure the platform is maintained throughout the duration of the works. • To be provided by Cannon Piling.

	<u>Permit to Dig / Break Ground (to be signed weekly)</u> • The permit must be completed fully for underground services and cleared from obstructions. • To be provided by Cannon Piling. <u>Lift Plan (to be signed prior to lifting commencing)</u> • Attending excavator LOLER / 12 monthly cert to be provided by the principal contractor • To be briefing by lifting supervisor. • To be provided by Cannon Piling. <u>Hot Works Permit (to be signed daily)</u> • Must be signed for any welding or abrasive wheels. • Fire watcher and fire extinguisher must be present. • To be provided by Cannon Piling. <u>Working at Height</u> • To be issued if using the MEWP • To be provided by Cannon Piling. These permits must be signed by both the principal contractor and the Cannon Piling supervisor prior to undertaking works.						
5.2	Security Arrangements						
	All security arrangements to be provided by the principal contractor. The site compound will be secured from unauthorised entry when no work is being carried out, i.e. at night and during weekends or holiday periods. Signage will be erected to warn third parties of the dangers associated with unauthorised entry by the Principal Contractor.						
5.3	Mandatory Site PPE (as per British and European Standards)						
	5 Point PPE required at all times  As a minimum to meet the principal contractor's site rules, the following five point PPE must be Cannon Piling branded or plain, and will be worn by all Cannon Piling personnel. Mandatory PPE • Safety Hat, EN397, with chin strap fitted • Eye Protection, EN1661FT • Gloves, EN388 • High Visibility Vest, ENISO 20471 • Steel Toe Cap Safety Boots, EN20345 • High Visibility Trousers, ENISO 20471: 2013 class 3 • Hearing Protection, EN352-1-2-3 (as required) Prohibited Items: Hoodies; Non-Cannon PPE; Bump Caps; Rigger Boots						
5.4	Task Specific PPE						
	<table> <tr> <th data-bbox="204 1597 802 1630">Task</th><th data-bbox="802 1597 1436 1630">PPE Required</th></tr> <tr> <td data-bbox="204 1630 802 1843">Welding, Grinding or Cutting</td><td data-bbox="802 1630 1436 1843"> • Fire retardant overalls • Ear defenders • Ear plugs • Safety goggles • Task grade gloves • Welding mask </td></tr> <tr> <td data-bbox="204 1843 802 1942">Concreting</td><td data-bbox="802 1843 1436 1942"> • Long sleeve top • Wellington safety boots • Waterproof gloves </td></tr> </table>	Task	PPE Required	Welding, Grinding or Cutting	• Fire retardant overalls • Ear defenders • Ear plugs • Safety goggles • Task grade gloves • Welding mask	Concreting	• Long sleeve top • Wellington safety boots • Waterproof gloves
Task	PPE Required						
Welding, Grinding or Cutting	• Fire retardant overalls • Ear defenders • Ear plugs • Safety goggles • Task grade gloves • Welding mask						
Concreting	• Long sleeve top • Wellington safety boots • Waterproof gloves						

	Working at Height	• Harness • Work Restraint Lanyard
5.5	Welfare	
	The principal contractor must provide the minimum facilities under HSE Guidelines CDM Reg 2015. It is the principal contractor's duty to provide safe and healthy working arrangements for the Cannon Piling site team ensuring there is the following available: • Wash room facilities, with toilet, wash basin and soap • Drinking water • A place to eat safely • A place to change or store clothing	

6	Emergency Arrangements	
6.1	Nearest Hospital	
	 Highgate Hill, London, Greater London, N19 5NF	
6.2	First Aid	
	First aid to be provided by the principal contractor. • There will be a full time first aider on site for the duration of our works. • The first aid box will be located in the site office. • First aiders are to be identified during site induction. All accidents and use of first aid to be recorded and raised to the principle contractor, site supervisor and Cannon Piling management immediately. Cannon Piling's site supervisor is to collect statements, evidence and record photos and issue directly to Cannon Piling's management team to review further and record incident. All accidents will be raised to a safety stand down for business wide awareness. When required, accidents and incidents will be reported to HSE under RIDDOR.	
6.3	Pedestrian / Traffic Re-Routing Arrangements	
	This is to be provided by the principal contractor. • Traffic marshal(s) will coordinate interactions with traffic and pedestrians. • People/plant interface to be discussed daily in prestart meeting.	

6.4	Fire Safety Arrangements
	This is to be provided by the principal contractor. In the event hearing the fire alarm, turn off all plant and equipment and make your way to the designated assembly point for roll call by your company's fire marshal. This can be located using the company signboard displayed for this purpose. Stay at the assembly point until you are released by your company fire marshal. In the event of finding a fire, leave the area and raise the alarm immediately. Do not attempt to fight the fire, and only use a fire extinguisher if you need it to help you get to a position of safety. Move to the assembly point and report the location of the fire and any details that may help brief the fire services.
6.5	Responsibility for Task and Safety Lighting
	Cannon Piling safe working day is subjected to safe daylight hours, working to the hours agreed as above. If agreed, the site team may work outside these hours due to project commitments, travelling time or daylight saving hours. It is the responsibility of the principal contractor to ensure the site is safe to work by providing task lighting if required to work outside "daylight" times. AJ Group must ensure the site has safe egress and has adequate light to walk around the site continue to work safely. #N/A

7	Communication of Information
7.1	Induction, Works Package Plan Briefing, Daily Briefing and Toolbox Talks
	Upon arrival the whole Cannon Piling team must attend a site induction hosted by a representative from the principal contractor. This will introduce the team and provide information regarding site set up, access and egress, welfare and first aid; it will provide opportunity for the Cannon Piling team to ask any questions specific to the site and ensure it is safe to work. The Cannon Piling team will provide their CSCS cards.
7.2	Daily Checks and Briefing
	The Cannon Piling team will have a daily briefing and perform pre-start checks on their equipment. This information will be recorded as part of their Friday Packs. Daily briefing sheets and pre-start check sheets are to be issued to the office for QA purposes daily. Copies of the Friday Pack may be requested by the principal contractor if required.
7.3	Toolbox Talks
	Toolbox talks will be given by site supervisors at least once a week. Toolbox talks are provided by the use of a QR code within the site supervisor's Friday Pack. Copies of the Toolbox Talks may be requested by the principal contractor if required.
7.4	Permits
	All permits must be signed off by the Cannon Piling site supervisor and a representative from the principal contractor. All permits are to be issued weekly to the office via records@cannonpiling.com Copies of the permits may be requested by the principal contractor if required.

8	Environmental						
8.1	Pollution, Waste and Local Habitats						
	<table> <tr> <td>Environmental Impact</td><td>Action taken to Mitigate</td></tr> <tr> <td>Diesel Engines</td><td>Minimise use</td></tr> <tr> <td>Oil/Diesel Spillage</td><td>Waste management / spill kit</td></tr> </table>	Environmental Impact	Action taken to Mitigate	Diesel Engines	Minimise use	Oil/Diesel Spillage	Waste management / spill kit
Environmental Impact	Action taken to Mitigate						
Diesel Engines	Minimise use						
Oil/Diesel Spillage	Waste management / spill kit						

	General Waste	Waste management / recycle
	Material Suppliers	Local to site to reduce travel distance
	Noise	Reduce when possible / site working hours
	Light	Reduce when possible / site working hours
8.2	For the Avoidance of Damage to Sub-Surface Drainage	
	The main contractor is to ensure all existing sewer connections are terminated outside of the line of piling The proposed methodology of pile construction ensures that the piles are installed in a manner that ensures the sides of the pile excavation are always supported, as per section 2.7 CFA Piling Concrete Procedure.	
8.3	Contaminaton	
	The use of Continuous Flight Auger (CFA) piling mitigates the downward migration of groundwater by creating a low permeability concrete barrier within the soil profile. During installation, the auger is withdrawn while concrete is pumped under pressure, producing a continuous, defect-free pile shaft that seals surrounding strata and restricts the vertical flow of groundwater into deeper geological layers.	
#N/A		

9	Monitoring	
9.1	Monitoring	
	The permit system requires suitable supervision and monitoring to ensure that the conditions of the permit are complied with. Any alterations to the piling platform will be logged.	
9.2	Personnel Responsible for Monitoring/Reviewing the Safe System of Works and Ensuring Compliance	
	Contract Manager (responsible for overall project management, infrastructure, monitoring of works, including safe systems of work on a day to day basis):	Shaun Prill
	Health and Safety Manager:	Mark Hardy
	Health and Safety Advisor:	Mark Hardy
9.3	Review Date	
	This document is to be reviewed every six weeks from the commencement of works on site.	

10	Risk Assessment / Method Statement Sign Off		
	The undersigned confirm they have been briefed on the enclosed health and safety pack and are aware of all the risks and procedures detailed within.		
	Name	Signature	Date

11	Weekly Toolbox Talk Sign Off		
	The undersigned confirm they have been briefed on the enclosed health and safety pack and are aware of all the risks and procedures detailed within.		
	Location		Supervisor Presenting Toolbox Talk _____
	Subject		
	Date		Signature of Supervisor Presenting Toolbox Talk _____
	Duration		
	Name	Signature	Date
	Feedback and Comments from Cannon Piling and Site Staff		