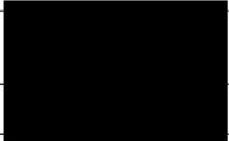


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Work Package Plan Driven Precast Concrete Piling

Croudace Homes Limited
Driven Precast Concrete Piles

108-250000
Twyford Bridge Farm Reading
RG10 9PP

Revision	Prepared by	Date	Description	Signed
0	S Jones	18/11/24	First Issue	
1	S Jones	19/11/24	Revised quantities	

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A Work Package Details

A1 Scope of work

This Works Package Plan is to cover the installation of Driven Precast Concrete Piles for the project at Twyford Bridge Farm Reading. The works will be completed by 1No. rig in a number of visits to site. This plan details the works in the first visit.

- 90No. 200mm square piles for axial loads up to 370kN.
- 3No. dynamic pile tests

Main site attendances to be provided by Croudace as follows:

- Full welfare facilities (Section B5)
- Setting out of individual pile positions
- Background lighting
- Skips for site waste (segregated)
- Wheel washing/road cleaning
- Platform installation and testing
- Service scanning, demarcation, protection and/or diversion

Our works are based upon being able to track our rigs fully erect between all pile positions and all locations. Therefore, we will require ramped access to be installed, modified and maintained as necessary by others to the various piling platform levels. A maximum gradient of 1:10 is allowable when fully rigged.

A2 Construction of the driven precast concrete piles

A piles will be installed using a Junttan crawler mounted piling rig complete with a 4 tonne hydraulic hammer.

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A3 Control of Activity Risks

A site specific hazard assessment will be completed prior to piling, please see Appendix A.

Key hazards are detailed below, full task risk assessments and COSHH data for the scope of works can be found in our Driven Precast Concrete Piling Risk Assessment pack.

Hazard	Controls Specified
Noise	Anticipated noise levels to be provided with quotation and dedicated piling area with sufficient exclusion to be provided by Main Contractor
Piling Platform	Platform certificate to be complete to confirm that platform is adequate before work commences
Underground services	Permit to dig must be completed and issued by the Main Contractor before work commences
Material falling from the pile	All non-essential personnel must be kept away from the work area
Environmental	Spill kits to be available comprising plant nappies, spill granules and booms

A4 Resources

Plant

- Junttan PMx22 crawler mounted piling rig complete with 4 tonne hydraulic hammer

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Labour

- Supervisor - Lee Starbuck
- Rig Operator - Lee Starbuck
- Topman - Jordan Freeman

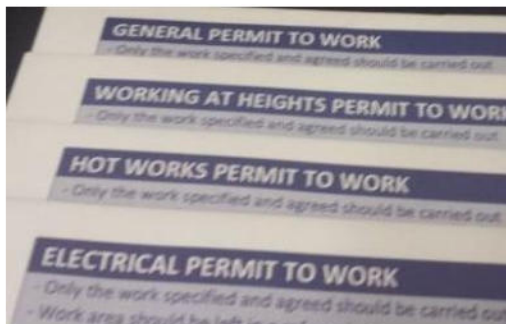


All site personnel will have as a minimum a CSCS card and where applicable a CPCS card. All personnel will have their CSCS/CPCS cards for inspection during the induction.

The Supervisor will be FPS/CITB accredited and competent to manage the works on site. The piling supervisor is qualified to SSSTS as a minimum.

A5 Permits

Prior to commencement of piling works, the following permits must be obtained:



- Working platform certificate - issued weekly and following any reinstatement of the platform, such as following removal of obstructions. This also needs to include the access ramps between works areas
- Permit to dig – issued to last no more than 7 working days, must be relevant to the area we are working in and must confirm there to be no services in the area.
- Hot works permit for use of welding equipment or abrasive wheels if required.

These documents must be signed by the client or his representative prior to undertaking our works. A copy of the Working platform certificate (WPC4) is attached in Appendix B.

A6 Working hours

Keller site working hours will be:

Monday to Thursday

08:00 to 18:00

Friday

08:00 to 15:00



A7 Handover of completed works

Pile Record Sheets detailing the pile numbers completed along with installation details will be completed by Keller's Supervisor and issued daily.

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A8 Key Personnel and Contacts

David de Souza	Managing Director	02476 511 266
David Harnwell	Operations Manager	02476 511266
Justin Greateorex	Safety Advisor	02476 511 266

B Site Details

B1 Access arrangements for materials & plant

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 access routes.

The piling rig will be mobilised to site on a low-loader using the abnormal load procedure via the approved transport routes. Due to Highways/Local Authority restrictions, the rig may be subject to out of hours delivery times. The low loader will drive onto the site where the tractor unit will detach itself from the trailer. The piling rig will be maneuvered off the trailer and tracked to an area with a firm, level platform suitable for rigging up by the piling crew.

The piles will be delivered to site by 40 foot articulated flatbed wagons. The piles will be offloaded using the piling rig or telehandler and stored in an agreed location within the working radius of the piling rig.

B2 Control of Site Hazards

In addition to the task specific controls above, Site specific hazards will be noted within the Site Hazard Assessment completed during the prestart site visit or on arrival by our Supervisor. A copy of the form is included in Appendix A.

B3 Communication & Contact Details

Client contacts, service providers and detailed information relating to the piling works are contained in the Contract Information Sheet in Appendix D.

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B4 Emergency Arrangements

First Aid

Keller Supervisors are trained First Aiders who will assess and provide minor treatment. If required, the injury may be taken to the nearest A&E Department. All incidents will be recorded in Keller's site Accident book.

A route map to the nearest A&E is included in Appendix C and a copy of this should be displayed on the notice board in the site office.

Nearest A & E:

Reading Hospital

B5 Welfare

All welfare facilities are to be provided by the principal contractor and must include as a minimum:

- Toilets
- Hot running water
- Cold drinkable water
- Canteen area for preparation of food
- Covered rest area to include seating
- Drying room



B6 Interfaces

Public	Hoarding/similar to be provided by principal contractor and access to site should be restricted. Personnel to be aware of public when banking
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	delivery wagons etc. off the highway onto site and should be aware of proximity to site boundaries while piling. Where possible, wagons will drive forwards on and off site. An exclusion must be maintained between the boundary and the first pile position of the length of the longest pile section plus 2m. This can be taken as 15m for this project.
Other trades & construction site vehicles	Use pedestrian walkways and dedicated plant crossing points. An exclusion should be maintained between the piling operation and other trades.
Environment	There are no significant environmental interfaces for this project. Good housekeeping should be maintained at all times.
Statutory and Enforcement Authorities	No noisy plant to be used before 8am.

C Management of Health and Safety

C1 Briefing Arrangements

The site supervisor will ensure all Keller site personnel receive the following briefings:

- Site Induction (principal contractor/client)
- Works Package Plan
- Daily Briefing
- ToolBox Talks (To Keller schedule)

Reference to be made to Work Instructions where appropriate.



The image shows a 'Tool Box Talk Attendance Register' form. It includes fields for Project Name, Site Address, Person Giving Tool Box Talk, Date Talk, and Location of Tool Box Talk. Below these is a table with columns for Name, Job Title, and Signature, with multiple rows for recording attendance. At the bottom, there are checkboxes for 'If you attended' and 'If you did not attend'.

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C2 COSHH and Hazard Assessments



C.O.S.H.H and Hazard Assessments for all substances used on the site can be found in our Driven Precast Concrete Piling Risk Assessment pack.

C3 Personal Protective Equipment

As a minimum, the following PPE will be made available to all personnel attending site:

 Safety Helmets	 High Visibility Clothing or Vest	 Foot Protection	 Hand Protection	 Safety Glasses	 Hearing Protection
✓	✓	✓	✓	✓	✓

Working at Height

The piles will be offloaded using the piling rig and edge protection will be provided along the edge of the delivery trailer.

The piling rig is self-erecting and there is no requirement to climb up the mast. For any maintenance the rig mast will be lowered.

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Appendix A – Site Hazard Assessment

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Appendix B – Working Platform Certificate

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Appendix C – Hospital Route Map- To Follow

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Appendix D – Contract Information Sheet

Our Preliminary design based on the Leap Report will require that the piles will be installed into sound chalk typically at 200mm sq. Should some of the design loads exceed 350kN then pile section will increase to 250mm square.

At this stage we envisage Pile Lengths of 12-15m. Should refusal occur above the level that any features are believed to be present at then a fall back procedure would be to adopt some steel piles although this is considered unlikely.

Generally this type of pile can be driven into chalk but will tend to refuse when N Values approach 30. We would interrogate probe records to ensure that piles penetrate to a depth below the level of any features.

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Appendix E – Rig Details

See Reig Data Sheet

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Appendix F – Detailed Methodology

To follow at detailed Design Stage on receipt of Construction Issue Drawings

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CHANGE RECORD

Revision	Changes	Author
-/2015-08-07	Initial issue following WPP	BE / EC
-/2024-11-19	Reviewed	SJ

End of Document