

Regency Road to Pym Street Project

PILING WORKS FACT SHEET



PILING WORKS

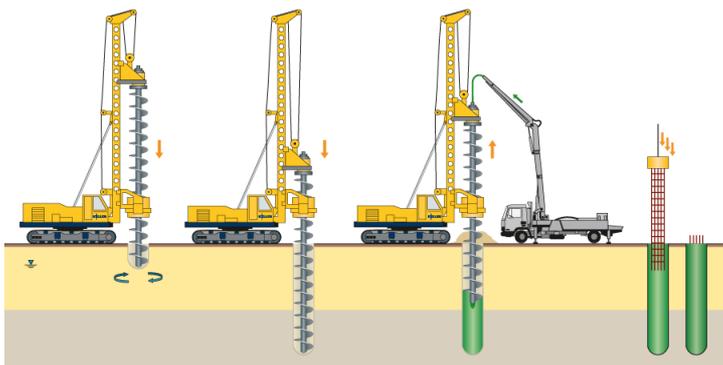
The R2P Project will undertake piling works that will support a number of structures including the pedestrian and cyclist overpass near Pym Street, the Regency Road overpass and the road corridor noise walls.

What is piling?

Piling is the construction of columns in the ground that provide vertical and horizontal support to a structure, such as a bridge or retaining wall, by connecting to stable soil or rock.

Piles are installed vertically into the ground and can be made from steel, timber or reinforced concrete. There are various piling methods used in construction, but generally it involves boring or driving them into the ground.

The primary method of piling used for the R2P Project is Continuous Flight Auger (CFA) piling. CFA piling is an efficient method that is vibration free and one of the least intrusive forms of piling. This means that construction impacts are reduced for the local community.



CFA piling construction

A pile is formed by drilling a shaft into the ground with an auger (a drill resembling a large corkscrew) that is attached to a piling rig. Concrete is then injected under pressure through the hollow stem of the auger, and the auger is removed.

Once the concrete has been injected, a reinforced steel cage is inserted into the concrete to complete the pile.



Reinforced steel cages

Once the concrete is set, pile cropping is then undertaken by breaking away the top section of concrete down to the desired level. This leaves the reinforced steel cages exposed to make an effective bond for the pile cap.



Exposed reinforced steel cages

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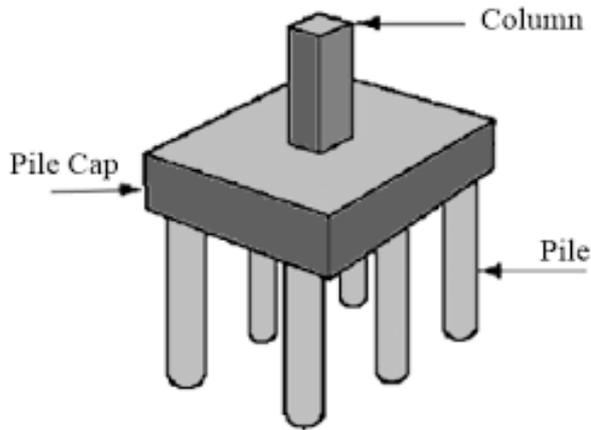
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The pile cap is a mass concrete structure that sits on top of the pile and is the first level of foundation for the structure being built.



Piles with pile cap and column that supports the structure e.g. overpass

When and where will piling works be undertaken?

Piling works will commence in late April 2020. Piles will be constructed along South Road, on the northern side of the Pym Street intersection. This pile construction is the commencement of the pedestrian and cyclist overpass near Pym Street.

In August 2020, piling works will commence for the Regency Road overpass. These works be undertaken along South Road, on both sides of Regency Road.

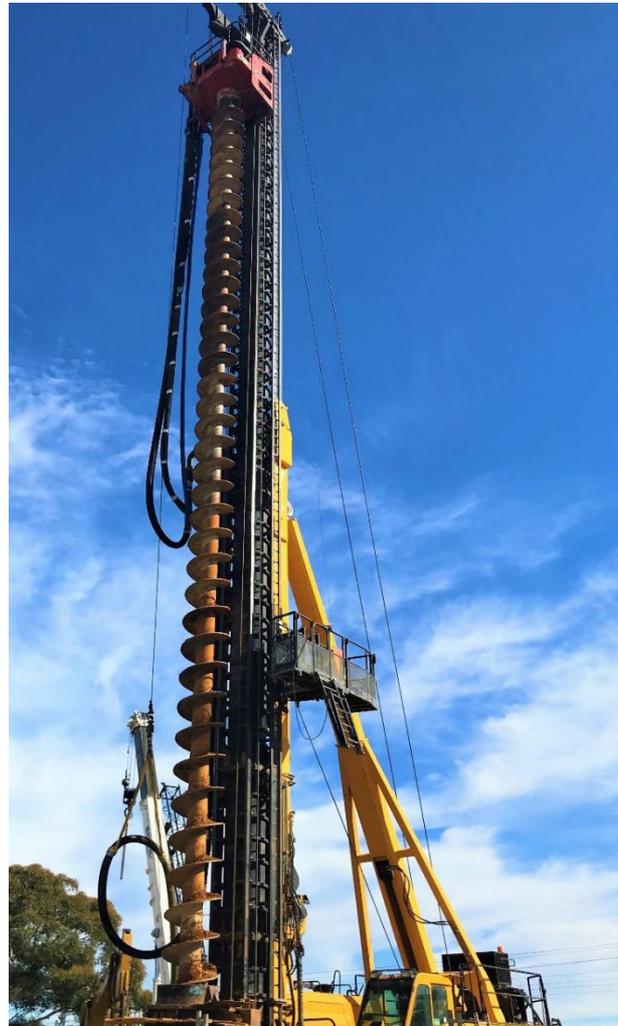
How many piles will be constructed?

The pedestrian and cyclist overpass near Pym Street will have 25 piles in total, with 13 on the east side of South Road and 12 on the west side of South Road.

The Regency Road overpass will have 38 piles in total, with 19 on the east side of South Road and 19 on the west side of South Road. The depth of all the piles will range from 9 to 22.5 metres into the ground.

What machinery will be used for piling works?

A 24-metre high CFA piling rig, cranes, excavators and concrete trucks will be used during the piling works. There will be increased truck movement around the local area transporting steel cages to site as well as removing earth material extracted during the piling process. There will be temporary traffic restrictions at night along South Road when the CFA piling rig arrives to site, and also when it crosses between the east and west sides of South Road.



CFA piling rig

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