Reducing impacts on local roads

Large machines, such as a crane and piling rig, will need to be delivered outside of standard construction hours to minimise impacts on the local road network and to comply with oversize delivery requirements.

Noise, vibration and dust impacts

To reduce the impacts from piling works, high-noise generating activities are scheduled after 8am during standard construction hours where possible. Mitigation measures such as selecting quieter machinery, placing hoarding around the work site and providing noise and vibration respite periods will be used. Respite periods will be used during activities with potential for high impact noise and vibration. Other low impact work will proceed during respite periods.

Noise and vibration monitoring will be conducted to ensure works are within project approval limits.

Dust suppression with water will also be carried out during piling work.

Hours of work

Standard construction hours are: Monday to Friday 7am - 6pm and Saturday 8am - 1pm. However work may occur outside of these hours (e.g. to deliver large equipment). If this occurs, we will notify you.

For construction work within Central Station, the project team is often working 24/7.

How can I stay up to date with work planned?

Contact your Central Station Metro community team at centralstationmetro@transport.nsw.gov.au and subscribe for project updates or call 1800 171 386 for any project enquiries or complaints.

City & Southwest

Sydney Metro is Australia’s biggest public transport project. Services started in May 2019 in the city’s North West with a train every four minutes in the peak. Metro rail will be extended into the CBD and beyond to Bankstown in 2024.

Laing O’Rourke is delivering the new Sydney Metro platforms under Central Station as well as the landmark Central Walk, including the new station entrance at Chalmers Street.

New Chalmers Street entrance works

Sydney Metro is piling at 20-28 Chalmers Street to construct a new entrance from Surry Hills into Central Station as part of Sydney Metro.

Demolition of the building at 20-28 Chalmers Street is now complete. The next stage of works for this site involves piling and excavation. From October, Laing O’Rourke will build a concrete pile retaining structure to enable excavation to begin.

Inside you will find information about the piling activities.
**What is piling?**

Piling is a process of installing concrete columns into the ground to form a retaining wall or foundation for deep excavations (see graphic below). This process involves:

- boring holes into the ground using a large piling rig
- using a crane to install a steel cage to reinforce each hole
- pouring concrete into each hole
- installing a capping beam.

A concrete capping beam is formed across the top of the piles to link them together and hold them in place. Once the piles are installed around the edge of the station area, excavators and rock hammers will be used to remove soil and rock. As the excavation continues, rock anchors will be installed and concrete sprayed over the walls to hold the structure in place.

Each pile will be made on site. This reduces noise and vibration impacts on the surrounding community.

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**Piling at 20-28 Chalmers Street**

The pile retaining structure will support the ground and soil during excavation. Large piling rigs will be used to install 54 piles around the edge of the site. Each pile will be between eight and 16 metres deep, depending on the depth of the bedrock. There will be more than 600 linear metres of piling when complete.

**After piling**

After piling, excavation will proceed as deep as 16 metres underground.

Central Station Metro works are due to be completed in 2022. Central Walk and the new escalators from Platforms 12 to 23 will be open in late 2022, with the new metro platforms to become operational once services begin in 2024.

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**Steps in the piling process**

1. Drilling hole
2. Installing steel cage
3. Pouring concrete
4. Forming capping beam

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**New station entrance at Chalmers Street – Indicative timeline**

- **2019 Q1**
- **2019 Q2**
- **2019 Q3**
- **2019 Q4**
- **2020 Q1**
- **2020 Q2**
- **2021 Q1**
- **2021 Q2**
- **2021 Q3**
- **2021 Q4**
- **2022 Q1**
- **2022 Q2**
- **2022 Q3**
- **2022 Q4**

- Main demolition
- Piling, excavation and building construction work
- Service installation and building fit out
- Finishing work

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Above: Piling rig in use in metro platforms area at Central Station in December 2018. A smaller version will be used at 20-28 Chalmers Street.