



An artist's impression of Parramatta metro station

# Major work to start at Parramatta

The NSW Government is delivering Sydney Metro West, a new underground metro railway which will double rail capacity between Parramatta and the Sydney CBD, with a target travel time of about 20 minutes between the two centres.

Sydney Metro West stations have been confirmed at Westmead, Parramatta, Sydney Olympic Park, North Strathfield, Burwood North, Five Dock, The Bays, Pyrmont and Hunter Street in the Sydney CBD.

Gamuda Australia and Laing O'Rourke Consortium (GLC) has been awarded the contract to deliver the Western Tunnelling Package which involves nine kilometres of twin metro rail tunnels between Westmead and Sydney Olympic Park, excavation for two new metro stations, a stabling and maintenance facility at Clyde and a precast facility at Eastern Creek.

## Parramatta construction overview

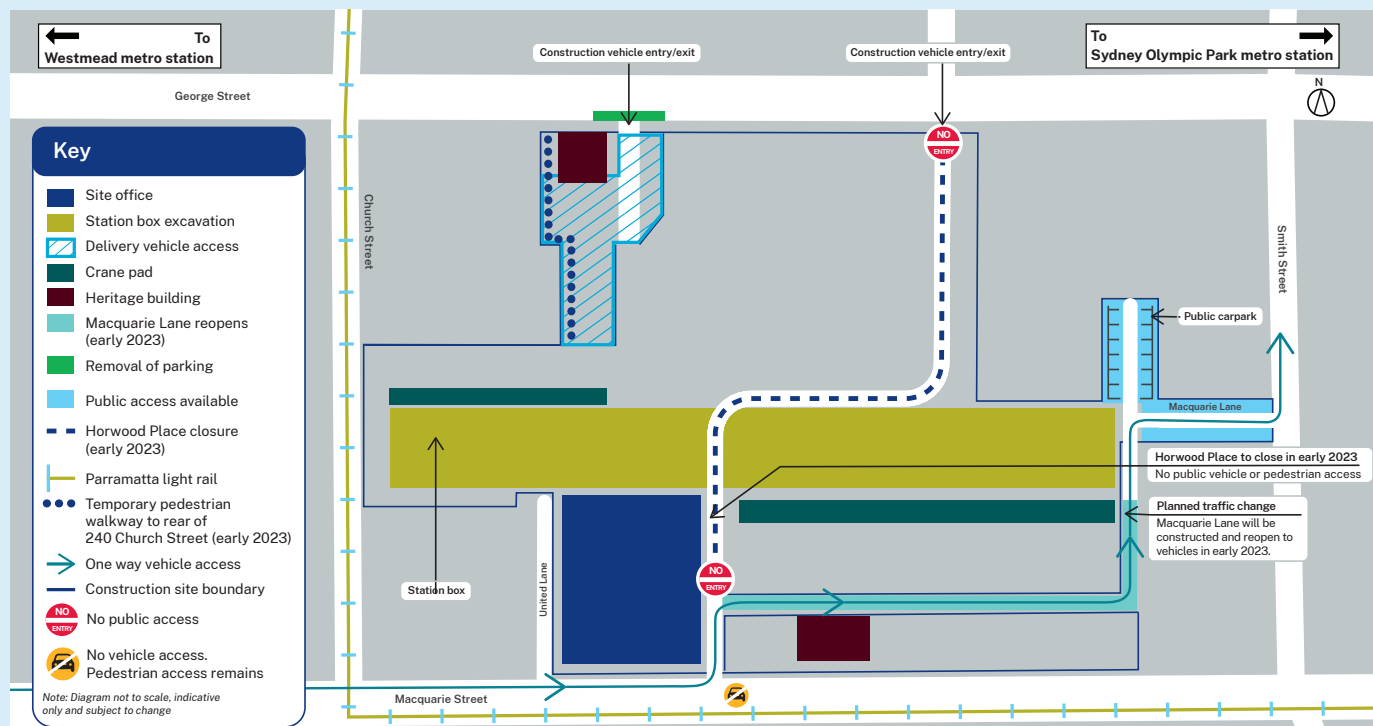
Work at the new Parramatta metro station commenced in early 2022 as part of the city-shaping Sydney Metro West project.

GLC is continuing site establishment work in Parramatta. Work includes utility investigations and new power supply installation that are ongoing in surrounding areas.

Major work including piling work is planned to commence in early 2023. Tunnel boring machines are expected to reach Parramatta in mid 2025.

## Planned changes to traffic and pedestrian access from early 2023

- Horwood Place will be redirected via Macquarie Lane to Smith Street.
- Macquarie Lane will be constructed allowing one-way vehicle access from Macquarie Street to Smith Street.
- Macquarie Lane public carpark will remain accessible from Macquarie Street.
- Temporary pedestrian access to the rear of 240 Church Street will be via George Street.



## Six month look ahead

Activity	January 2023	February 2023	March 2023	April 2023	May 2023	June 2023
Site establishment and construction of site structures	●	●	●			
Utility relocations and upgrades	●	●				
Archaeological investigations	●	●	●			
Redirection of Horwood Place via reopening of Macquarie Lane to Smith Street *		●				
Construction of diaphragm wall including piling works		●	●	●	●	●

\* Indicative timing. The community will be notified of traffic and pedestrian changes before they occur.

## Indicative construction timeline

	We are here			
Early to mid 2022	Mid 2022 to mid 2023	Mid 2023 to mid 2024	Mid 2024 to mid 2025	Late 2025
Site investigations	Site establishment	Station box excavation	Construction of twin TBM tunnels	Site handover for station construction

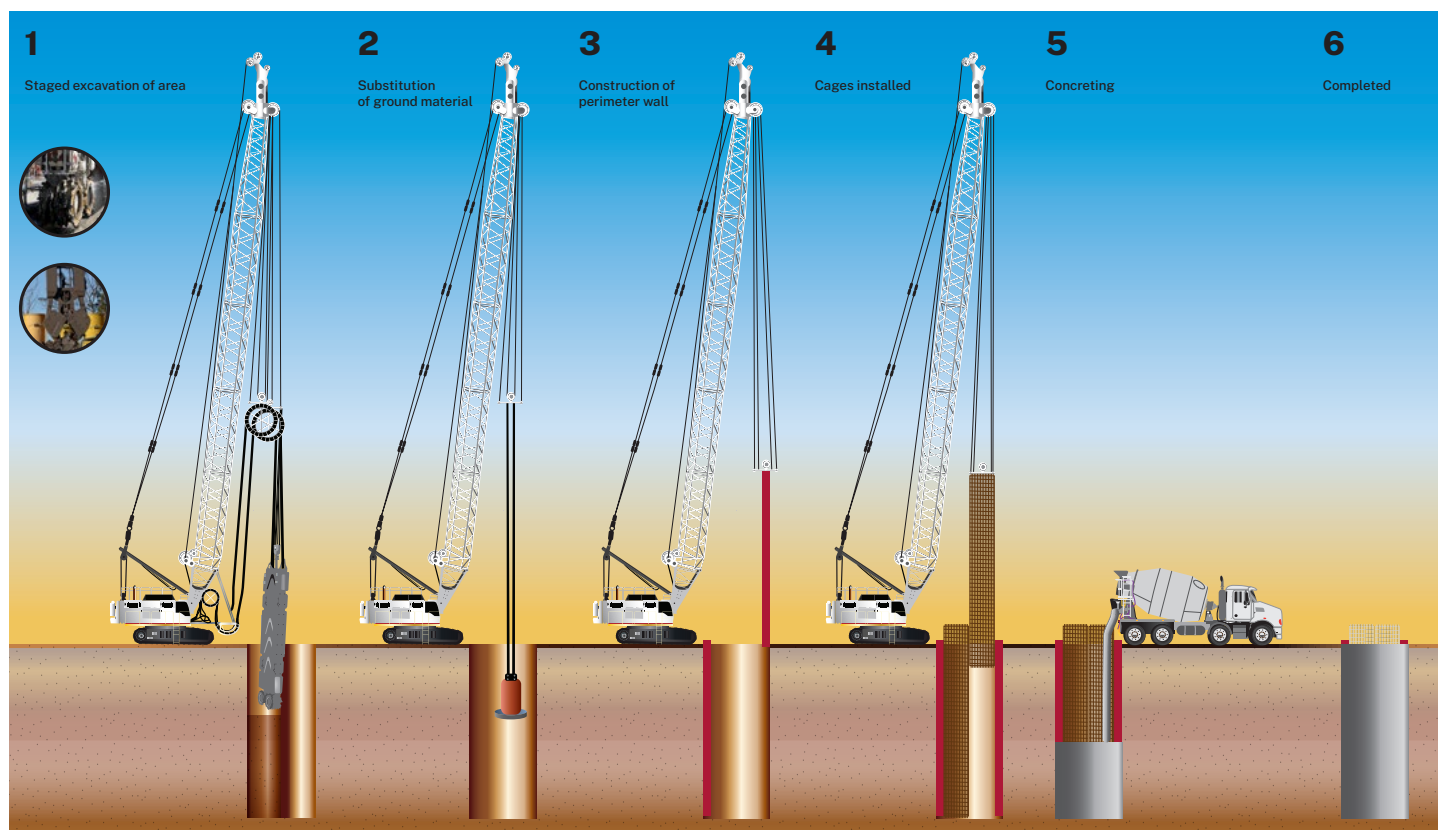


Image showing the process of constructing the diaphragm wall (D-wall)

## What is a diaphragm wall?

A diaphragm wall (D-wall) is a permanent retention structure that will be constructed around the perimeter of the station box.

D-wall construction involves removal and substitution of ground material with a mixture to stabilise the perimeter wall. The wall is constructed in a staged approach. Once constructed, the D-wall will support the excavation of the station box.



D-wall rig cutters in action

## Station box excavation

The new underground metro station will be located on the block bounded by George, Macquarie, Church and Smith streets in the heart of Parramatta.

The station box will be about 192 metres by 25 metres and 28 metres deep. A diaphragm wall will be constructed around the perimeter of the station box to form the outer walls. Excavation of the station box will occur in stages within the wall boundary and will take up to 12 months to complete. This work will require the use of cranes, piling rigs, excavators and rock breakers.

Work has started to prepare for station box excavation, with the tunnel boring machines expected to reach Parramatta in mid 2025.

## Heritage investigations

Archaeological investigations at Parramatta metro station site are continuing. Archaeologists have been investigating the site and have uncovered relics that give insight into the everyday life of the area in the 1700s and 1800s.

Sandstone footings of a Friendly Society building that became the Victoria Theatre were uncovered, and evidence of convict era drainage systems and agriculture including the structural remains of convict huts. Archaeologists are working with Registered Aboriginal Parties to investigate the site for any items of Aboriginal cultural significance.



# Managing noise and vibration impacts

## Causes of noise and vibration

Equipment used for excavating, compacting and construction activities can cause noise and vibration that may be noticeable to the nearby community and businesses.

The perceived level of impact may vary from person to person depending on the location of their property, the type of construction activity and duration of works.

Noise and vibration is regularly monitored to ensure the project is operating within its strict environmental requirements.

## Reducing noise and vibration

While noise and vibration are unavoidable during construction, mitigation measures will be implemented to minimise impacts on the community and businesses.

These will include:

- selecting machinery and planning activities that will minimise construction impacts
- installing noise blankets, hoarding and non-tonal reversing alarms
- prioritising high noise and vibration-causing activities to standard construction hours, where possible
- notifying nearby community in advance of noise or vibration-generating work.

## Construction hours

Work hours are Monday to Friday 7am to 6pm, and Saturday 8am to 6pm.

From mid 2023, tunnelling works and removal of excavated material will be undertaken 24 hours a day, seven days a week.

## Out-of-hours work

Occasionally, activities such as utility investigations or work on roads around site must be carried out at night for the safety of workers, motorists and pedestrians.

Depending on the type of work and expected impacts, a range of mitigation measures may be used such as completing the noisiest work before midnight, installing noise blankets around the worksite, implementing respite periods or providing alternative accommodation.

The project team will provide regular communications and liaise with directly affected residents to provide more information and discuss mitigation options before the work.

If you have an enquiry or would like to provide feedback about the work, including appropriate respite periods, please contact our GLC community team using the details provided below.

## Out of hours six month look ahead

Activity	Location	Noise Impact	Timing
Oversized machinery and equipment deliveries	Parramatta metro site	Low to medium	As required
Road realignment work	George Street, Horwood Place, Macquarie Lane, Smith Street	Low to medium	January to April 2023
Utility upgrades and installations	George Street, Horwood Place, Macquarie Lane	Medium to high	January to April 2023

## Have your say

If you have any questions or would like more information please contact our project team:

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