



Artist's impression of The Bays Station.

# Excavation continues at The Bays Station site

January 2023

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.

Sydney Metro has been granted planning approval to construct twin underground rail tunnels between Westmead and Hunter Street in the Sydney CBD for Sydney Metro West.

Acciona Ferroviaria Joint Venture (AFJV) has been awarded the contract to deliver 11 kilometres of twin metro rail tunnels between The Bays and Sydney Olympic Park and excavate five new metro stations including The Bays Station at Rozelle.

## The Bays Station construction site

The Bays Station site will be the launch point for two tunnel boring machines (TBMs) that will excavate twin tunnels from The Bays to Sydney Olympic Park. The same site will also be used as the launch point for tunnelling into the Sydney CBD. Once tunnelling has finished, the site will be developed into The Bays Station.

Major work to establish the construction site is continuing and includes the construction of two acoustic sheds which will house major construction activity. The first acoustic shed will be built over the station box excavation area, where excavated material from the tunnel boring machines will be received and transferred via conveyor belt to the second acoustic shed to be built on the northern part of the site. Excavated material will be stockpiled within the northern shed and loaded into trucks for removal from site via Port Access Road and James Craig Road.





Tunnel boring machine arrival at The Bays Station site.

## Tunnel boring machines have arrived

The two tunnel boring machines (TBMs) have arrived at The Bays Station site and will be the first in the ground for Sydney Metro West, where they will carve out 11-kilometre twin tunnels from The Bays to Sydney Olympic Park.

These TBMs include refurbished parts from the mega boring machines used on the Sydney Metro City & Southwest project.

Once launched, the TBMs will excavate an average of 200 metres per week, with around 15 workers per shift operating each TBM 24 hours a day, seven days a week.

The TBMs are due to start tunnelling from The Bays in the first half of 2023 and will arrive in Sydney Olympic Park in late 2024.

### TBM fast facts:

- Each TBM weighs almost 1,300 tonnes, equivalent to three Boeing 747 jets
- 165 metres long, longer than two Airbus A380s
- Approximately seven metres in diameter
- 38 disc cutters per cutterhead, each more than 48 centimetres in diameter
- Heaviest pieces of the TBM are the front shield and gripper shield which weigh approximately 280 tonnes each.



Construction progress at The Bays Station site.

## Construction hours

- Most of this work will be undertaken during standard construction hours, **Monday to Friday between 7am to 6pm and Saturdays from 8am to 6pm**, however some low impact work will occur outside these hours.
- Tunnelling and spoil removal will occur 24/7

## Construction timeline

September 2021 to January 2022	Late 2021 to mid 2022	Mid 2022 to early 2023	We are here	Early 2024	Late 2024 to late 2025
Site investigations	Site establishment	Station box excavation	TBM assembly and start tunnelling to Sydney Olympic Park	TBMs start tunnelling to Sydney CBD	Site handover to follow on contractor

## Concrete segments

Precast concrete segments are made and stored on site at the southern precast facility at Eastern Creek.

Each precast segment weighs 4 tonnes and is 3.5 metres long and 1.7 metres wide. One segment is produced every six minutes, which will total around 280 per day. These will be created by a team of around 70 workers.

The southern facility will produce around 72,000 concrete segments over the coming years. Six segments make a concrete ring and 12,000 rings will line the tunnels between The Bays and Sydney Olympic Park.

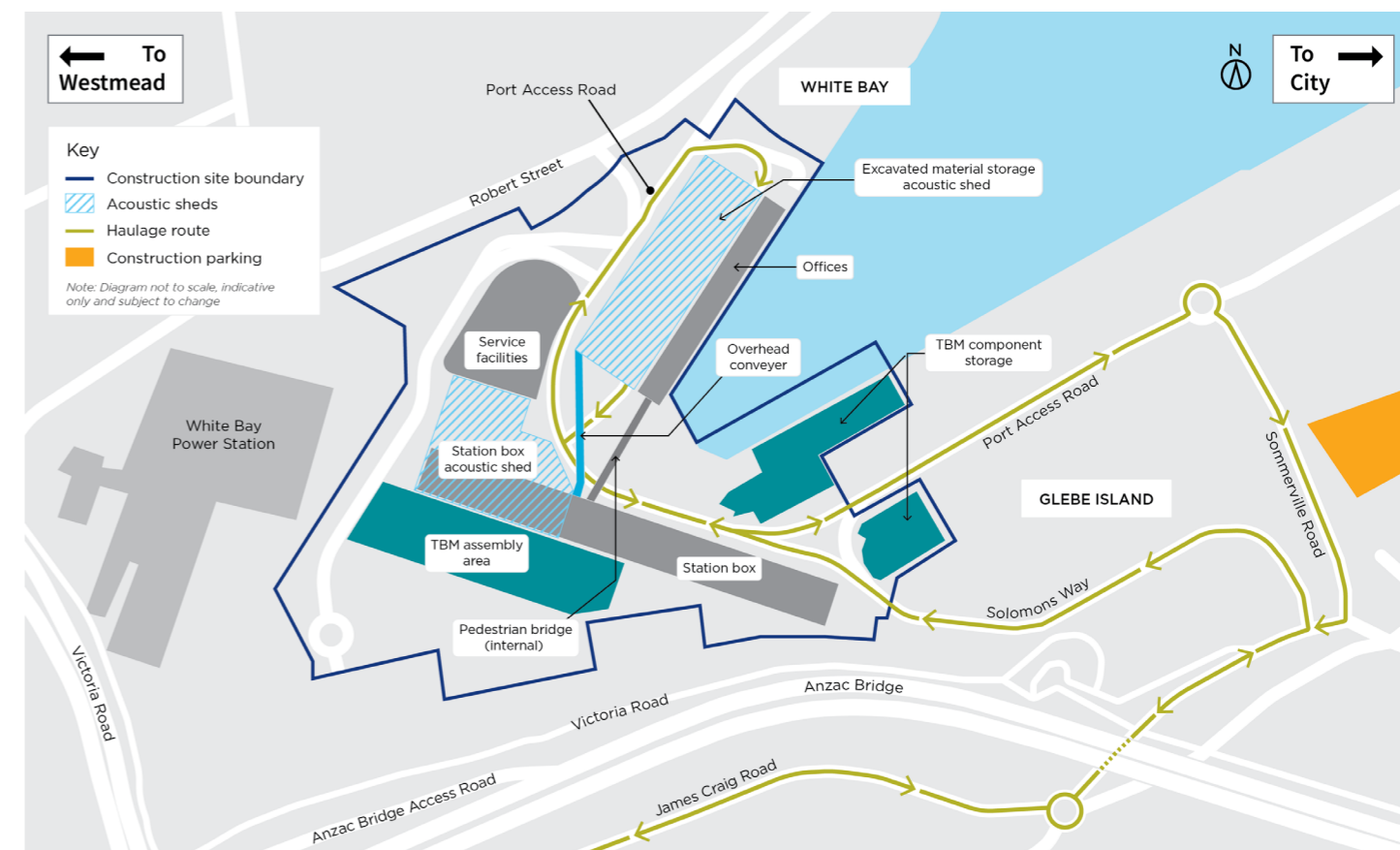


Concrete segments at the precast facility at Eastern Creek.

## Six month construction look ahead

Activity (subject to change)	Jan	Feb	Mar	Apr	May	Jun
Station box excavation	●	●	●			
Installation of new utility connection	●	●	●	●		
Establish service facilities	●	●	●	●		
Install acoustic segment shed	●	●	●	●	●	●
Install acoustic spoil shed structure		●	●	●	●	●
TBM assembly and launch			●	●	●	●

Construction activity ●



Construction site layout.



## Out-of-hours work – six month look ahead

While tunnelling activities will occur 24/7, other work activities are generally carried out during standard construction hours. Some activities such as utility investigation work or work on busy roads must be carried out at night for the safety of workers, motorists and pedestrians. Please see below an overview of potential out-of-hours construction work for the next six months.

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 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 the AFJV community team using the details provided below. Feedback is also invited on AFJV's Community Communications Strategy which is available online at [acciona.com.au/sydney-metro-west-ctp](http://acciona.com.au/sydney-metro-west-ctp) (plans).

## Tunnelling between The Bays and Sydney CBD

The Eastern Tunnelling Package, the third and final stage of tunnelling for the Metro West project between The Bays and Sydney CBD, was awarded in November 2022 to John Holland CPB Contractors Ghella Joint Venture (JCG).

The \$1.63 billion Eastern Tunnelling Package contract will deliver 3.5 kilometres of metro rail tunnels between The Bays and Sydney CBD, to complete the 24-kilometre Sydney Metro West twin tunnel rail line.

The JCG project team plans to start site establishment work in mid 2023 and tunnelling from The Bays towards the Sydney CBD in early 2024. JCG will provide a construction update prior to this work starting.



Activity	Location	Noise Impact	Timing
Station box excavation	Within the construction site	Low	24/7
Install new water supply	Robert Street	Medium to high	3 nights a week from January to April
Oversize equipment deliveries	Within the construction site	Low	As required
Environmental management and emergency work		Dependent on specific event	Only required in case of emergency

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### Have your say

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

1800 612 173 Community infoline open 24 hours

[MetrotunnelsAFJV@transport.nsw.gov.au](mailto:MetrotunnelsAFJV@transport.nsw.gov.au)

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