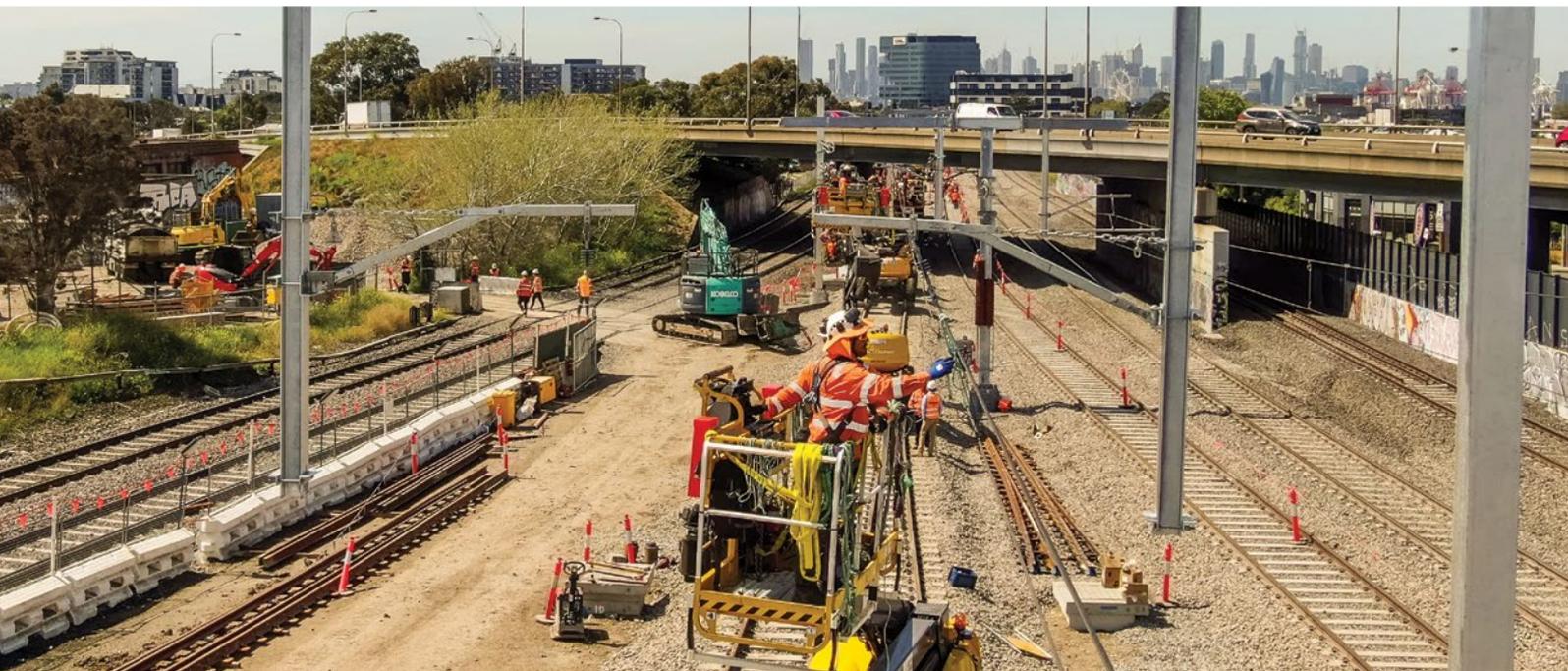


SUNBURY LINE UPGRADE



Footscray substation

As part of the Sunbury Line Upgrade, we're building an electrical substation in Footscray to provide essential power for bigger, more modern trains to run along the line — improving the capacity, reliability and frequency of services for passengers.

More modern trains for the Sunbury Line

To take full advantage of the extra capacity on the rail network created by the Metro Tunnel, a range of enhancements are needed on the Sunbury Line to enable bigger, more modern trains to run.

The \$2.1 billion Sunbury Line Upgrade will see upgrades within the rail corridor from Sunbury to Footscray including:

- platform extensions at eight stations
- wheelchair boarding platforms at eight stations
- train stabling upgrades at Sunbury, Calder Park and Watergardens
- power upgrades between Sunbury and the Metro Tunnel entrance near South Kensington station.

These upgrades will ensure bigger, more modern trains can reliably run all the way from Cranbourne and Pakenham to Sunbury, linked through the CBD by the Metro Tunnel. The new trains will provide a more comfortable ride for passengers with improved seating, standing areas, cooling and heating designed for Melbourne's weather.

To find out more about the Sunbury Line Upgrade and register for future updates, visit railprojects.vic.gov.au/sunburylineupgrade

New electrical substation in Footscray

Technical analysis of existing train power supply and future transport needs along the Sunbury Line identified the need for a new substation in Footscray to provide the necessary power supply in the area.

The substation is being built on land set aside for rail purposes on the corner of McNab Avenue and Mechanics Way.

Substations are an integral part of Melbourne's train network as trains need a constant source of power that can't be met by connecting to the standard street supply.

A substation is a mostly self-contained, unstaffed building which contains electrical equipment that converts the local power supply into the voltage needed to operate trains, signals and communication equipment across the train network.



Temporary closure of McNab Avenue

To facilitate works in the area, McNab Avenue will be closed during construction to ensure the safety of the community and workers.

Pedestrian access to the station will be maintained.

How was the location selected?

Several locations were assessed against the requirements for a substation site including the size and configuration of the site, proximity to the rail lines and existing rail infrastructure. This location, on the corner of McNab Avenue and Mechanics Way was selected as it is land set aside for rail purposes and it allows us to install the new rail infrastructure with minimum disruption while reducing impacts on public amenity.

Why can't the existing substation be used?

The existing substation on McNab Avenue, adjacent to Footscray station, already provides power to a large number of trains across two rail lines. To improve the capacity and frequency of trains on the Sunbury Line, additional power capacity is required in the Footscray area which can't be delivered by the existing substation.

What will the new substation look like?

The building will be designed to take into consideration key characteristics of Footscray, ensuring it fits in with the local area.

A fence will be built around the perimeter of the building to secure the area and an access driveway built off McNab Avenue.

Will the substation be noisy?

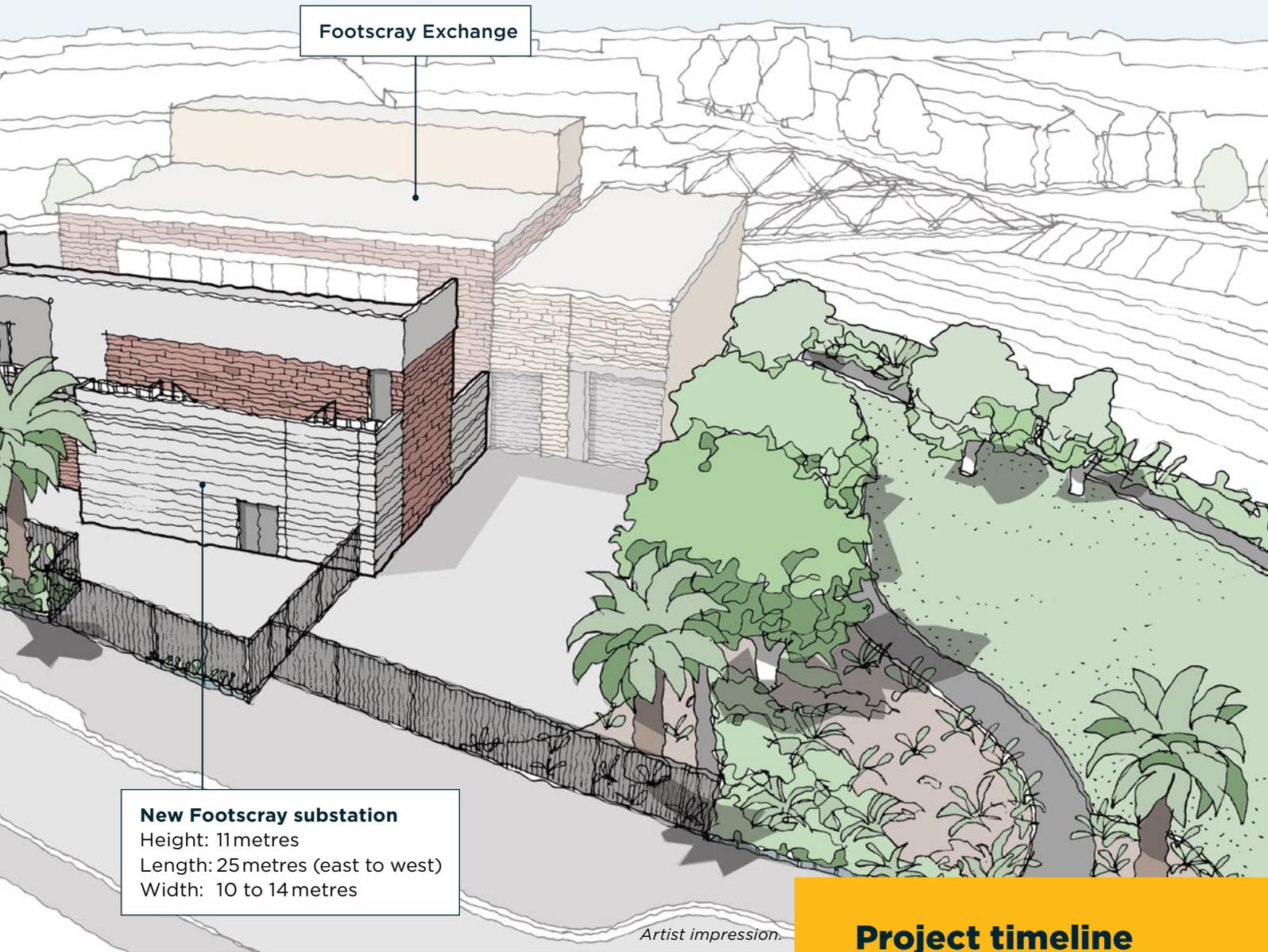
The substation will be designed to comply with Environment Protection Authority (EPA) Noise Control Guidelines. Noise monitoring will be undertaken both pre and post substation completion to ensure noise level compliance.

Noise mitigation strategies will be fed into the design for the substation, such as installation of acoustic barrier treatments or thick concrete walls to reduce noise if required. Exact mitigation strategies will be confirmed during the design development.

Will the substation impact my health?

The substation will access the same power that runs through street overhead or underground power lines. Therefore, the electromagnetic emissions from the substation will not be greater than the levels already produced in the area.

Electromagnetic emissions or electromagnetic fields (EMF) are a natural by-product of electricity. They occur around all electrical items, including those in our homes, workplaces and naturally through the Earth's magnetic field and thunderstorms.



Footscray Exchange

New Footscray substation
Height: 11 metres
Length: 25 metres (east to west)
Width: 10 to 14 metres

Artist impression.

What will construction involve?

Construction of the new Footscray substation will be undertaken in two phases. **McNab Avenue will be closed to all non-construction vehicles for 18 months during construction of the substation.** This road closure is required to accommodate site facilities and equipment laydown and will also create a safe barrier between the construction site and pedestrians. Pedestrian access to Footscray station will be maintained via the southern footpath on McNab Avenue.

The two stages:

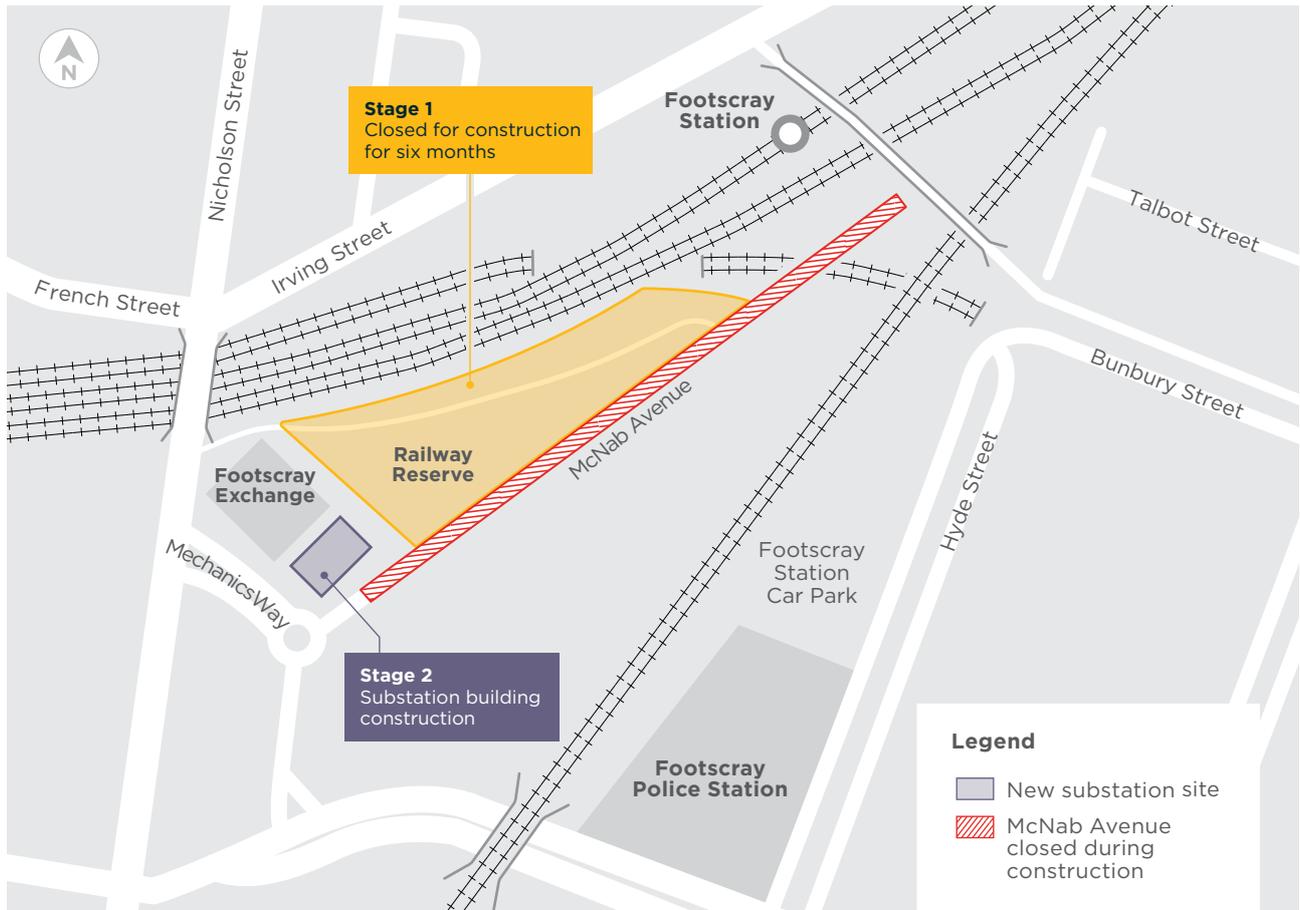
- **Stage 1—from late October 2020**
The first stage involves establishing a construction site and installing underground cables between the future substation location and the rail corridor. To complete works safely, Railway Reserve park must be closed for up to six months whilst trenching is undertaken between the rail corridor and the substation site.
- **Stage 2—from early 2021**
Major construction of the substation building will begin on the corner of McNab Avenue and Mechanics Way. Detailed construction information will be provided to local communities prior to the start of works. Construction is expected to be completed by 2022.

Project timeline

- **2020**
 - **Late October**
Construction site establishment and cable installation works begin at Railway Reserve
 - **Late 2020**
Final building design announced
- **2021**
 - **Early 2021**
Substation building construction begins
- **2022**
 - **Project completion***

*Expected completion date, subject to change once a construction program is finalised.

Substation works area



To find out more about the Sunbury Line Upgrade and register for future updates, visit railprojects.vic.gov.au/sunburylineupgrade

More information

To find out more about the Sunbury Line Upgrade:

 railprojects.vic.gov.au

 1800 105 105 (24 hours a day, 7 days a week)

Rail Projects Victoria
PO Box 4509, Melbourne, VIC 3001



Interpreter Service (03) 9209 0147

It should be noted that this information is current at the time of printing, however due to unforeseen circumstances, changes may occur. Please visit railprojects.vic.gov.au for the latest updates.