



MONTHLY CONSTRUCTION UPDATE

KENSINGTON OCTOBER 2019

Major construction is continuing in Kensington at the site of the future western tunnel entrance. This update provides an outline of current and upcoming works in your area throughout October.

Construction snapshot

The project's first tunnel boring machine (TBM) has commenced tunnelling from the site of the new North Melbourne Station. Over the coming months, it will tunnel towards the retrieval shaft adjacent to South Kensington station.

Works in October will continue to focus on constructing the TBM retrieval shaft and progressing with installing diaphragm-wall (D-wall) panels.

In October, works within the Kensington precinct will include:

- TBM retrieval shaft construction
- D-wall construction
- Removal of concrete foundations from former high voltage (HV) tower sites
- D-wall break back (level off) and capping beam works
- Tunnel cross passage ground improvement site works
- Installation of monitoring instrumentation and survey activities.

Further information on these works can be found overleaf or at metrotunnel.vic.gov.au

When are we working?



Normal construction hours

7am to 6pm, Monday to Friday
7am to 1pm, Saturdays.



Out of hours

Some works are required to take place out of normal construction hours. The timing of these works are outlined in the construction information overleaf.



24 hours

24 hour works are sometimes required during peak construction activities. The timing of these works are outlined in the construction information overleaf.

Project Information Line

1800 105 105

24 hours a day, 7 days a week
Press 2 for Metro Tunnel

WORKS IN YOUR AREA

TBM retrieval shaft construction

Childers Street

7am to 6pm, Monday to Friday

7am to 3pm, Saturdays

Ongoing until late 2019



- TBM retrieval shaft works using excavators and trucks to remove the excavated material and spraying concrete (shotcrete) to line the walls of the shaft
- Constructing a concrete base slab at the bottom of the excavated shaft
- Works during October will be undertaken during regular construction hours, although concrete pouring activities may occasionally continue past these hours
- Using excavator-mounted jackhammers periodically to break back sections of piles within the excavated shaft. Jackhammering work will be undertaken during the daytime only.

Tunnelling

From North Melbourne towards Kensington



Ongoing until early 2020

- The project's first tunnel boring machine (TBM) has commenced tunnelling from the site of the new North Melbourne Station towards Kensington
- The second TBM will commence tunnelling in the near future, also from the site of the new North Melbourne Station towards Kensington
- On average, the TBMs will move around 10 metres every 24 hours
- Properties located near tunnelling will be contacted with further information prior to tunnelling commencing in their area
- Property condition surveys have been offered to property owners based on an environmental assessment.

Tunnel cross passage reinstatement works

Lloyd Street and McLennan Drive

Ongoing until end of October 2019



- Cross passage ground improvement works on Lloyd Street and McLennan Drive are now complete
- Reinstatement works on Bakehouse Road and McLennan Drive will involve concreting, asphaltting and line marking. Vegetation will be replanted on McLennan Drive
- A section of water main will be replaced beneath Lloyd Street. Properties who may be impacted by water main replacement works will be contacted before works commence
- Some overnight closures of Lloyd Street will be required to complete reinstatement works. Additional information will be provided to nearby properties once dates are confirmed

- Access to and from the Lloyd Street Business Estate will be maintained at all times.

Diaphragm-wall preparation works

Childers Street

Ongoing until late 2019



- Installing guide walls prior to D-wall construction adjacent to South Kensington station platforms
- These works involve excavating two trenches adjacent to the tunnel entrance, installing reinforcement steel and pouring concrete
- Undertaking earthworks, including excavation of materials, placement of new materials and use of a vibrating roller to provide new access ramps into the worksite
- These works are expected to generate low to medium levels of noise and medium to high levels of vibration associated with the use of the vibrating roller.

Diaphragm-wall construction

Childers Street and Hobsons Road

24/7, ongoing until Friday 11 October 2019

7am to 11pm, Monday to Saturday,

12 October until early 2020



Diaphragm-walls (D-walls) will be constructed in two areas. **Area 1** is located adjacent to the Bill Vanina Pavilion in JJ Holland Park. **Area 2** is located opposite the South Kensington station platforms (see map overleaf for location of works). D-wall works in October will take place in both areas.

- Constructing D-walls, involving cranes excavating individual panels, and installation of steel reinforcement cages and concrete
- Concrete trucks accessing the Childers Street worksite to pour concrete for the D-wall panels
- Using a vacuum truck to suck excess concrete once poured. This method helps reduce the overall duration of break back works
- Deliveries of steel cages, requiring short holds of traffic on Kensington Road while trucks reverse into the Childers Street work site
- Operation of the bentonite plant (located within the Hobsons Road site compound) while D-wall works take place
- The bentonite plant includes pumps, generators, pipes, silos and a de-sanding machine to recycle bentonite. Low to medium levels of noise are expected from the use of bentonite plant pumps, however, it is not expected to be disruptive
- These works are expected to generate low levels of noise to nearby residents and low levels of vibration are expected while excavation of rock and firmer soils takes place.

Diaphragm-wall break back and capping beam works

Childers Street

Late October until mid-2020



- Once sections of D-walls are complete, works will commence to break back D-walls, remove guide walls and install capping beams
- D-walls and guide walls will be broken back (levelled off) using a jackhammer, saw cutter and excavator, and a capping beam will be installed to tie D-wall panels together
- These works will be undertaken in stages, with break back activities expected to be undertaken in blocks of up to three-weeks, once sections of D-walls are installed
- These works are expected to generate periods of high-level noise and will be undertaken during normal working hours.

Approach structure construction (previously embankment stabilising works)

Childers Street

Ongoing until early 2020



The approach structure is the section of the tunnel entrance located opposite the skate park in JJ Holland Park where the existing Sunbury rail line will divert into the new western tunnel entrance. Previous embankment stabilising works have occurred to widen this area of the rail corridor.

- Ongoing steel installation and concreting works will be undertaken to stabilise the rail corridor embankment in this area
- These works will involve installing and welding reinforcement steel and pouring a concrete base
- Installing concrete access pits for new underground signaling cables
- Earthworks including excavation of materials, placement of new materials and use of a vibrating roller will be undertaken
- These works are expected to generate medium level noise and medium to high levels of vibration associated with the use of the vibrating roller.

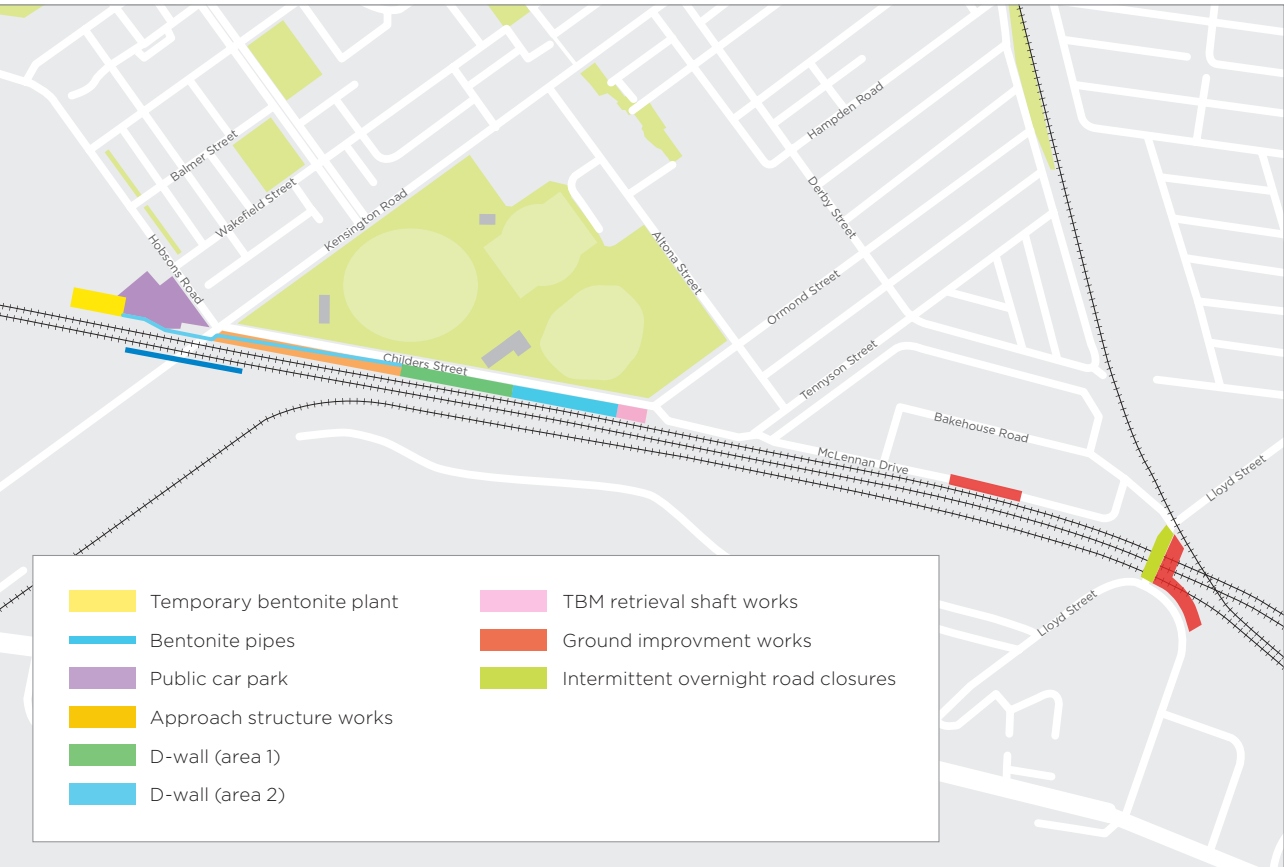
High voltage tower underground concrete foundation removal

Childers Street

Ongoing until Mid-October 2019



- Removal of concrete foundations from previously removed high voltage (HV) towers located opposite South Kensington station. These piles require removal to allow for D-wall construction to commence in this area
- It is expected that pile removal works will generate high levels of noise.



Traffic and transport impacts

Childers Street closure

- Childers Street is now closed for 12 months, while major construction works take place along Childers Street and is expected to reopen in late 2020.
- Over-height vehicles accessing the Lloyd Street Business Estate and Childers Street residents will be required to detour via Kensington Road, Derby Street and Tennyson Street during this time
- An over-height detection sensor is now operating on Tennyson Street and will be monitored 24/7.

Kensington Road

- Traffic controllers are in place on Kensington Road to assist with trucks reversing into site.

Hobsons Road temporary car park

- The temporary car park located on the corner of Kensington Road and Hobsons Road is now open. Thank you for your patience during this time.

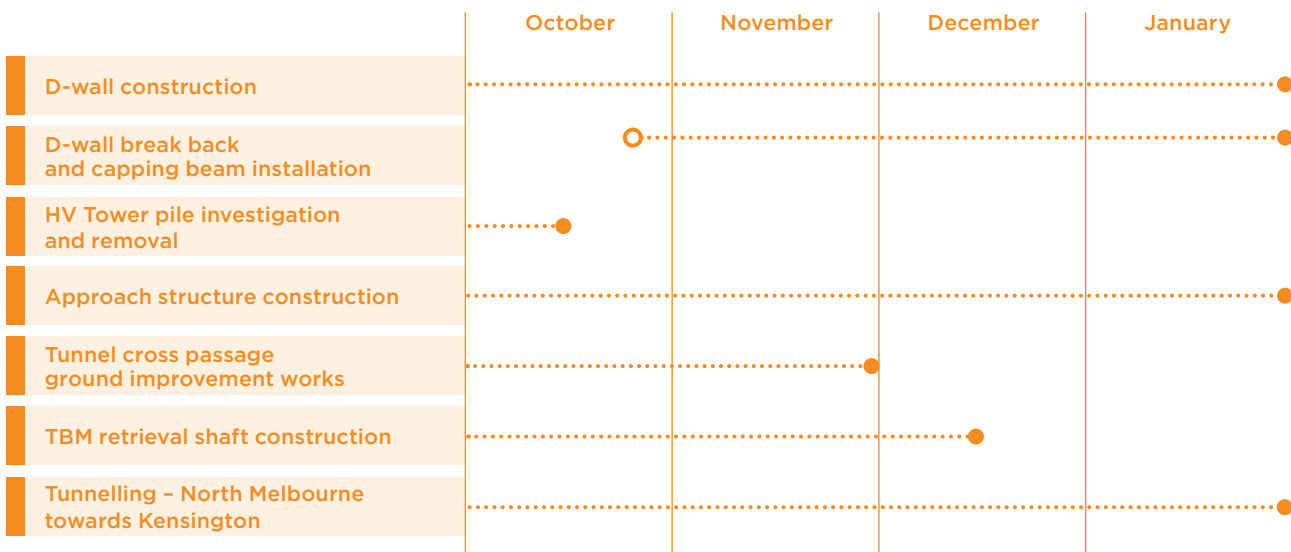
We're taking a break

Please be advised that the Metro Tunnel Project will take a break from construction from Saturday 2 November. Works will recommence on Thursday 7 November 2019.

During the closure period, the site will be secured with regular security patrols. The project team will be on call during this time to directly respond to any issues that arise.

There may be minor works taking place during this time. Further information will be provided if works are to occur.

LOOK AHEAD FOR 2019/2020



More information

To find out more about the Metro Tunnel Project and register for future email updates:

-  metrotunnel.vic.gov.au
-  1800 105 105 (24 hours a day, 7 days a week)
Press 2 and follow the prompts
-  facebook.com/metrotunnel
-  Subscribe to eNews or construction notification emails: metrotunnel.vic.gov.au/subscribe



Interpreter Service
(03) 9209 0147

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