



## MONTHLY CONSTRUCTION UPDATE

### KENSINGTON JULY 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 July.

#### Construction snapshot

Works to install and trim the bored piles that form the tunnel boring machine (TBM) retrieval shaft are now complete. A concrete capping beam now needs to be poured to prevent the piles from moving. Preparatory works will be undertaken adjacent to South Kensington station to prepare the shaft area for excavation.

In July, you will see works start on the temporary bentonite plant in preparation for diaphragm wall (D-wall) construction in August.

Construction works within the Kensington precinct during July will include:

- Bored (road-side) pile capping beam works on Childers Street
- Preparatory works for TBM retrieval shaft excavation
- Temporary bentonite plant works
- Temporary guide wall works
- Diaphragm-wall preparation
- Tunnel cross passage ground improvement works
- Embankment stabilising works

- Installation of monitoring instrumentation and survey activities
- Installation of fencing along the rail corridor.

Further information on these works can be found overleaf or at [metrotunnel.vic.gov.au](http://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

## Bored pile capping beam works

Childers Street

Ongoing until late-July 2019



- Works to install and trim bored concrete piles adjacent to South Kensington station are now complete
- An excavator will be used to clear the earth around the piles so that a steel frame can be installed and the concrete capping beam constructed
- Works to complete concrete pours associated with the capping beam may continue until approximately 7pm Monday to Friday, and 3pm on Saturdays. This is required due to the large size of these concrete pours
- Once the capping beam has set, the steel frame will be removed.

## Tunnel Boring Machine (TBM) retrieval shaft excavation preparation

Childers Street

Early July until early August 2019



- An excavator will be used to remove the piling pad ahead of TBM retrieval shaft excavation commencing in August
- Steel supports (struts) will be attached to the pile capping beams, to construct a retrieval shaft frame during excavation. Struts will be installed within the retrieval shaft to provide structural support
- Intermittent periods of medium to loud noise may be associated with works to trim the bored tension piles that have been installed within the TBM retrieval shaft. This will be completed using an excavator mounted jackhammer
- All other associated activities are expected to generate only low levels of noise.

## Temporary bentonite plant works

Hobsons Road

July to August 2019



- Installing temporary access scaffolding next to the temporary gantry across Kensington Road
- Earthworks, including use of a vibrating roller and excavation of excess soil, will be undertaken to prepare an area within the Hobsons Road site for bentonite storage tanks
- Delivery and installation of bentonite plant equipment including silos, pumps, generators, pipes and de-sanding equipment. For more information about the temporary bentonite plant, please visit [metrotunnel.vic.gov.au/construction/kensington](http://metrotunnel.vic.gov.au/construction/kensington)
- There will be 6 silos up to 13 metres in height installed on the Hobsons Road construction site

- Reinstalling traffic lights on Hobsons Road and Kensington Road following on from the installation of the gantry
- Traffic management will be in place during the reinstallation of traffic lights and deliveries of equipment
- These works are expected to generate low to medium level of noise, and medium to high levels of vibration associated with the use of the vibrating roller
- Further information will be provided in the lead up to the temporary bentonite plant installation including any out of hours deliveries required for these works.

## Guide wall works

Childers Street

Ongoing to late August 2019



- Guide walls will be installed prior to installing diaphragm-walls (D-walls)
- Guide walls are continuous concrete walls constructed at the surface level to outline the correct alignment of the D-walls prior to excavation works.
- These works involve excavating two trenches adjacent to the tunnel entrance, installing reinforcement steel and pouring concrete
- Earthworks will be undertaken, including the use of a vibrating roller, to complete sections of the piling pad
- Service investigations, involving non-destructive digging (NDD) to help locate underground services
- These works are expected to generate periods of loud noise during NDD activities. All other works are expected to generate periods of medium level noise and medium to high levels of vibration associated with the use of the vibrating roller.

## Diaphragm-wall preparation

Childers Street

Late July 2019



- Out of hours deliveries of five oversized D-wall cranes in late July
- The dates of deliveries are to be confirmed and further notification will be provided closer to the date
- A full closure of Childers Street will be required to deliver and set up D-wall cranes (see Traffic and transport impacts).

## Diaphragm-wall construction

### Childers Street

August 2019 to mid-2020



- Construction of two, 280-metre D-walls consisting of over 200 individual panels
- Two large cranes excavating individual panels, up to 20 metres deep and one crane excavating rock and firmer soils at the bottom of the excavation
- Ongoing deliveries of large steel cages and other materials which will then involve cranes lifting steel cages into place
- Deliveries of steel cages will require short holds of traffic on Kensington Road while trucks reverse into the Childers Street work site
- Concrete trucks accessing the Childers Street worksite to pour concrete for the D-wall panels
- Use of the temporary bentonite facility in Hobsons Road to mix, pump and recycle bentonite while D-wall works take place
- These works are expected to generate low to medium levels of noise, with some periods of high-level noise while excavation cranes remove excess soil
- Low levels of vibration are expected while excavation of rock and firmer soils takes place.

## Tunnel cross passage ground improvement works

Lloyd Street and McLennan Drive  
24/7, ongoing until mid-late 2019



- Cross passage ground improvement works on Lloyd Street and McLennan Drive will continue. This work is not expected to be audible from residential properties.

## Embankment stabilising works

### Childers Street

Ongoing to August 2019



- 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
- These works are expected to generate medium level noise.

## Fencing installation

### Rail corridor adjacent to Childers Street

12am to 4am, Wednesday 17, Thursday 18 and  
Tuesday 23 July 2019



- Installation of a delineation fence around the work site, involving non-destructive digging (NDD) to excavate post holes
- Use of temporary light towers powered by generators within the rail corridor adjacent to Childers Street
- Low to medium levels of noise with periods of high level noise during NDD works.

## Traffic and transport impacts

- Signage and traffic controllers will be in place to direct vehicles, pedestrians and cyclists along Kensington Road, Hobsons Road, and Childers Street during scaffold works, deliveries of D-wall materials, equipment and machinery, and while traffic signals are reinstalled.
- Short holds of traffic will be required on Kensington Road, Hobsons Road and Childers Street during deliveries of D-wall materials, equipment and machinery.

### Kensington Road closure

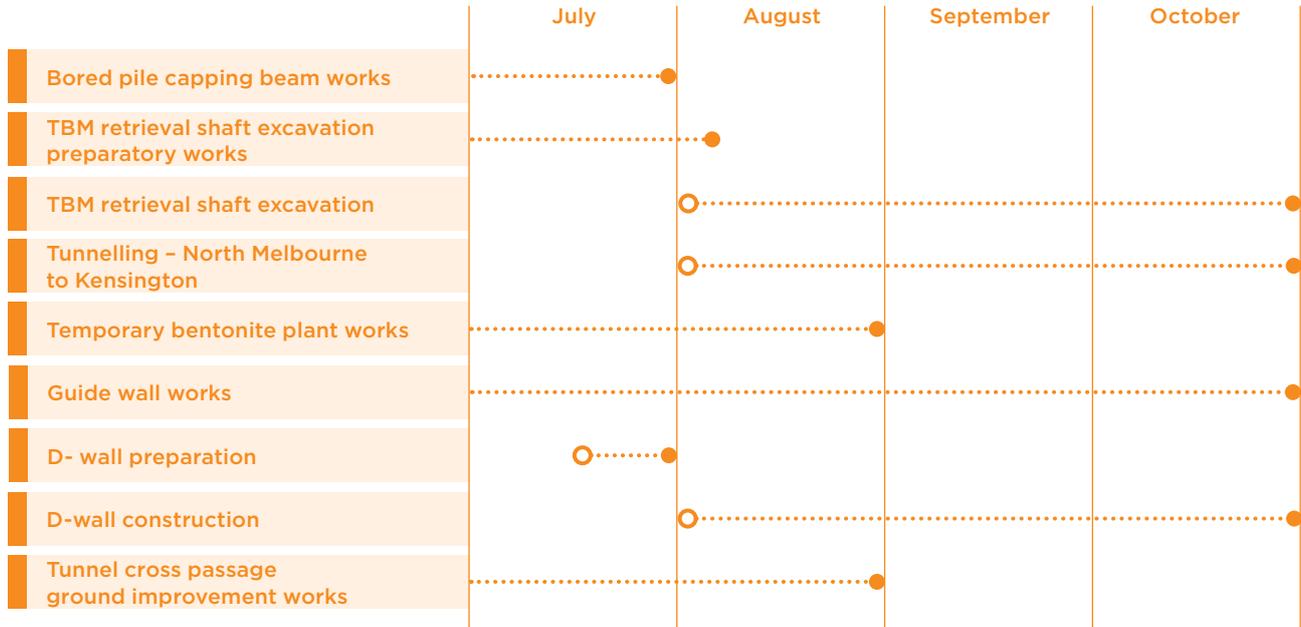
- Kensington Road, Childers Street and Hobsons Road will be closed from 7pm Friday 5 July to 5.30am Saturday 6 July. Overnight closures may be required on Saturday 6 and Tuesday 9 July if conditions are not suitable on the night. Detours will be in place to direct traffic around the area. Please visit [metrotunnel.vic.gov.au/construction/kensington](http://metrotunnel.vic.gov.au/construction/kensington) for more

information about the gantry installation works and Kensington Road closure previously distributed to residents.

### Childers Street temporary closure

- Over-height vehicles accessing the Lloyd Street Business Estate may be required to detour via Kensington Road, Derby Street and Tennyson Street for up to two days in mid to late July to enable the steel frames to be removed from the pile capping beam in Childers Street
- A closure of Childers Street will also be required for a period of one week in late July for the delivery and setup of D-wall cranes
- Signage and traffic controllers will be in place to direct vehicles, cyclists and pedestrians in the area on each day the temporary detour is required
- Adjacent properties will receive additional notification once dates for the use of the detour is confirmed.

# LOOK AHEAD FOR 2019



## More information

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

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



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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](http://metrotunnel.vic.gov.au) for the latest updates.