



ARDEN AND PARKVILLE COMMUNITY REFERENCE GROUP

MEETING 3

10 MAY 2019

AGENDA

1. Introductions and welcome
2. Parkville construction update
3. Arden construction update
4. Tunnelling update
5. Environmental management update
6. Site tour
7. Meeting close.

CONSTRUCTION UPDATE - PARKVILLE



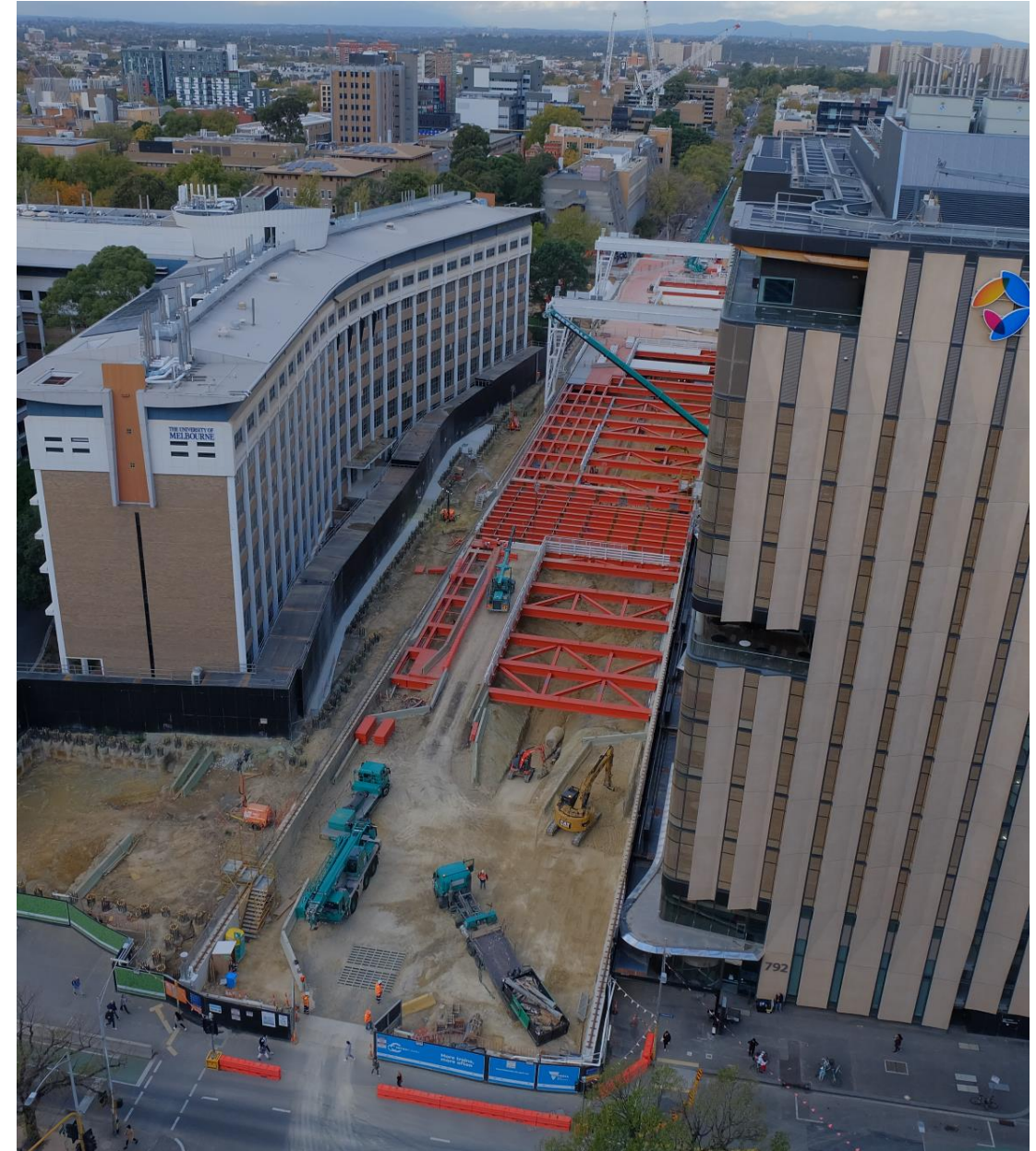
PARKVILLE 2019 TIMELINE

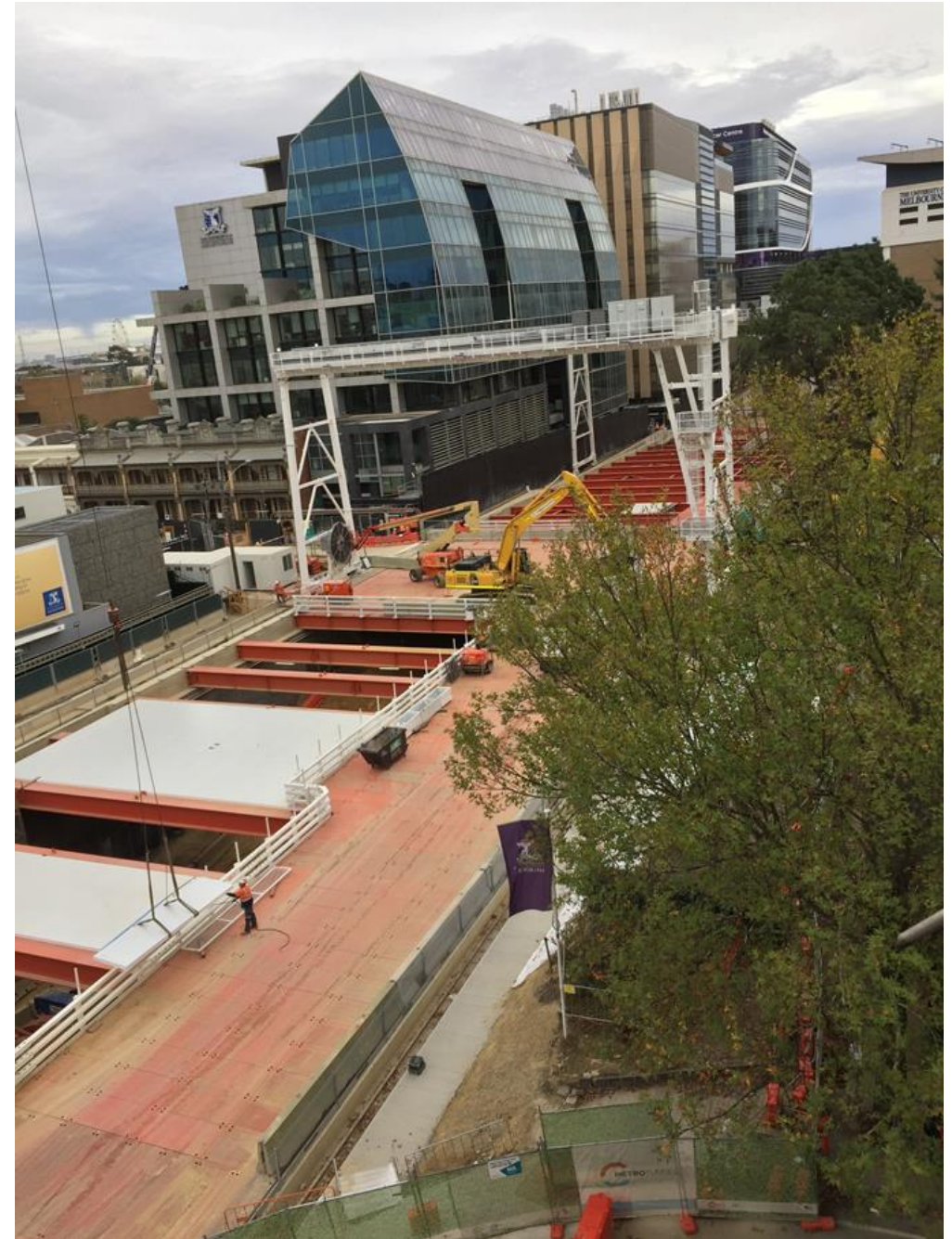
Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Open excavation (Stage 1)												
Service locating – Grattan St west												
Installation of gantry cranes												
Service investigations – Grattan St west												
Closed excavation with trucks entering excavation area underneath deck to remove material (Stage 2)												
Service Relocations (July 19 – Feb 20)												
Gantry cranes remove excavated material and load into trucks waiting inside acoustic enclosures (Stage 3)												
Base slab construction commences												

Dates subject to change

WHAT'S HAPPENING AT GRATTAN ST EAST

- Current out of hours works: Monday to Friday, 24 hours; Saturday 7am to 6pm
- Excavation - ongoing
- Steel struts and deck installation – ongoing
 - Crane positioned outside of the Berkeley St gates from Tuesday 7 May for approx. two weeks to facilitate installation of struts and deck
- Gantry crane installation – 11 May. Girders delivered to site via Royal Parade early morning – Saturday 11 May between 1am and 5am. Will require closure of the Royal Parade southbound service lane
- Electrical works and commissioning of gantry cranes – ongoing
- City Ford
 - Construction of access points for truck stabling
- Survey works – Flemington Road between Wreckyn and Villers streets – 15 & 16 May, 6pm to 6am (subject to approvals).













WHAT'S HAPPENING AT GRATTAN ST WEST

Service investigations ongoing

- Scheduled to be complete late May
- Works to recommence after Easter break on Tuesday 14 May – work will continue on the south side in front of Peter MacCallum Cancer Centre
- Week commencing May 20 – night works on Royal Parade / Elizabeth Street service lane on both the north and south sides.

July 2019 – February 2020

- Service Relocations (July 2019 to December 2019)
 - CNVIA consultation underway
 - TMP consultation underway
- Service connections (September 2019 to February 2020).

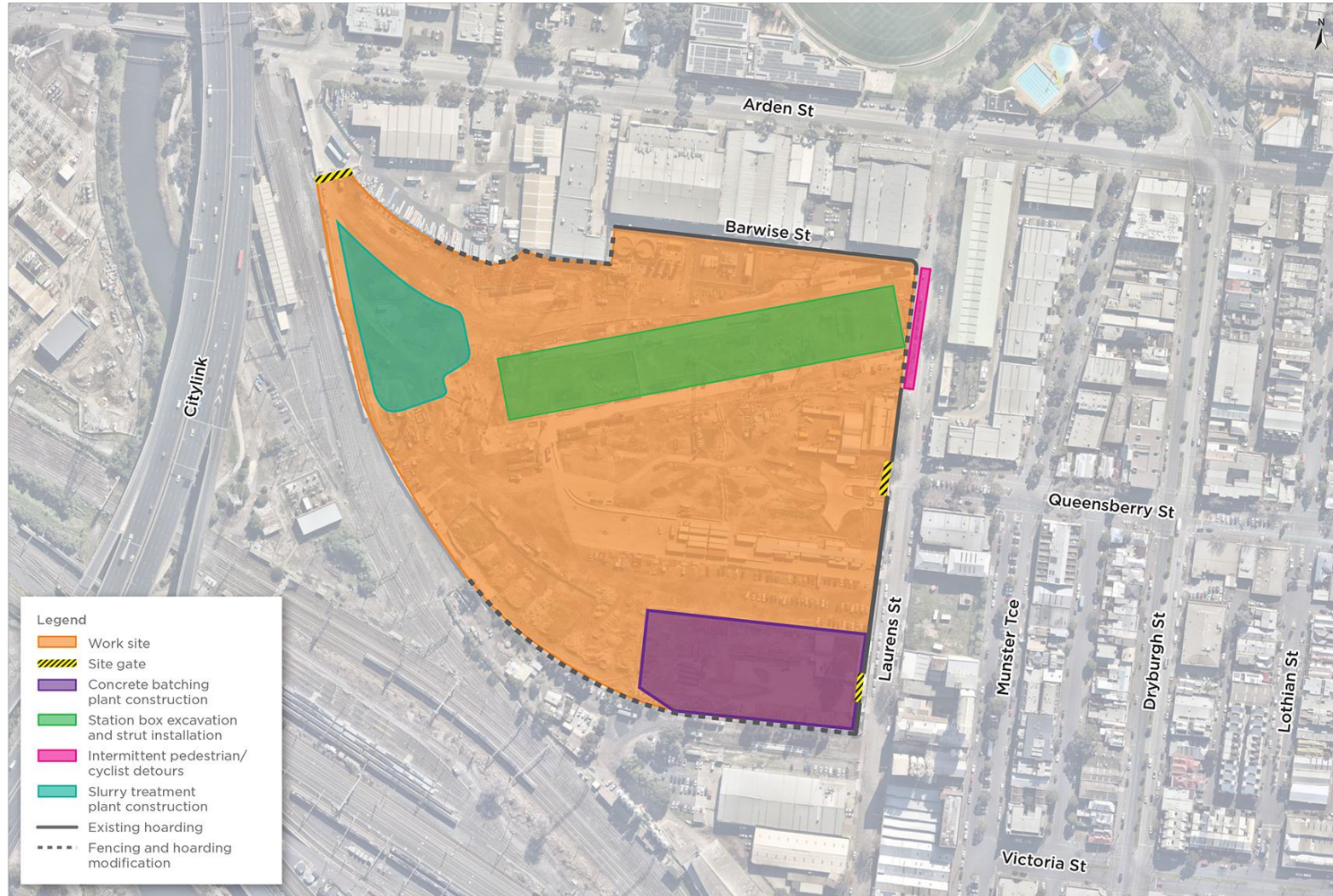
Mid 2020 – 2022

- Station entrance construction.

➤ Timing depending on relevant approvals for CNVIA and Traffic Management Plans.

CONSTRUCTION UPDATE - ARDEN

ARDEN



CONSTRUCTION PROGRAM ARDEN

Activity	May	Jun	Jul	Aug	Sept	Oct
Site set up						
Concrete batch plant construction						
Slurry treatment plant construction						
Excavation of station box						
Base slab construction						
Hoarding/gate modification						
Concrete internal haulage roads						
TBM assembly						
Tunnelling towards Kensington						

Program is indicative and subject to change

WHAT'S HAPPENING AT ARDEN

- Ongoing site establishment activities
- Slurry treatment plant and concrete batching plant construction
- Station box excavation and installation of station box frame (steel struts)
- Station box base slab construction
- Concreting of internal haulage roads and installation/relocation of rumble grids
- Surveying, and sampling and testing of groundwater and soil
- Modifications to hoarding, fencing and gates
- Short-term lane closures on Laurens Street for utility design investigations
- Road cleaning on Arden and Laurens streets to minimise the spread of dirt on local roads.

WHAT'S HAPPENING AT ARDEN

Out of hours works

- 6pm – 10pm, Monday to Friday
 - Station box excavation, steel strut welding and installation inside the excavated station box
 - Over-size equipment deliveries to and from site and use of a crawler crane to unload deliveries
 - Base slab construction
- 10pm – 7am, Monday to Friday
 - Station box excavation, steel strut welding and installation inside the excavated station box
 - Over-size equipment deliveries to and from site and use of a crawler crane to unload deliveries
 - Concrete deliveries for base slab construction
 - Road cleaning on Arden Street as required

After 6pm, all construction vehicles will enter and exit via Arden Street wherever possible.

WHAT'S HAPPENING AT ARDEN



WHAT'S HAPPENING AT ARDEN



WHAT'S HAPPENING AT ARDEN



TUNNELLING



Construction partner:

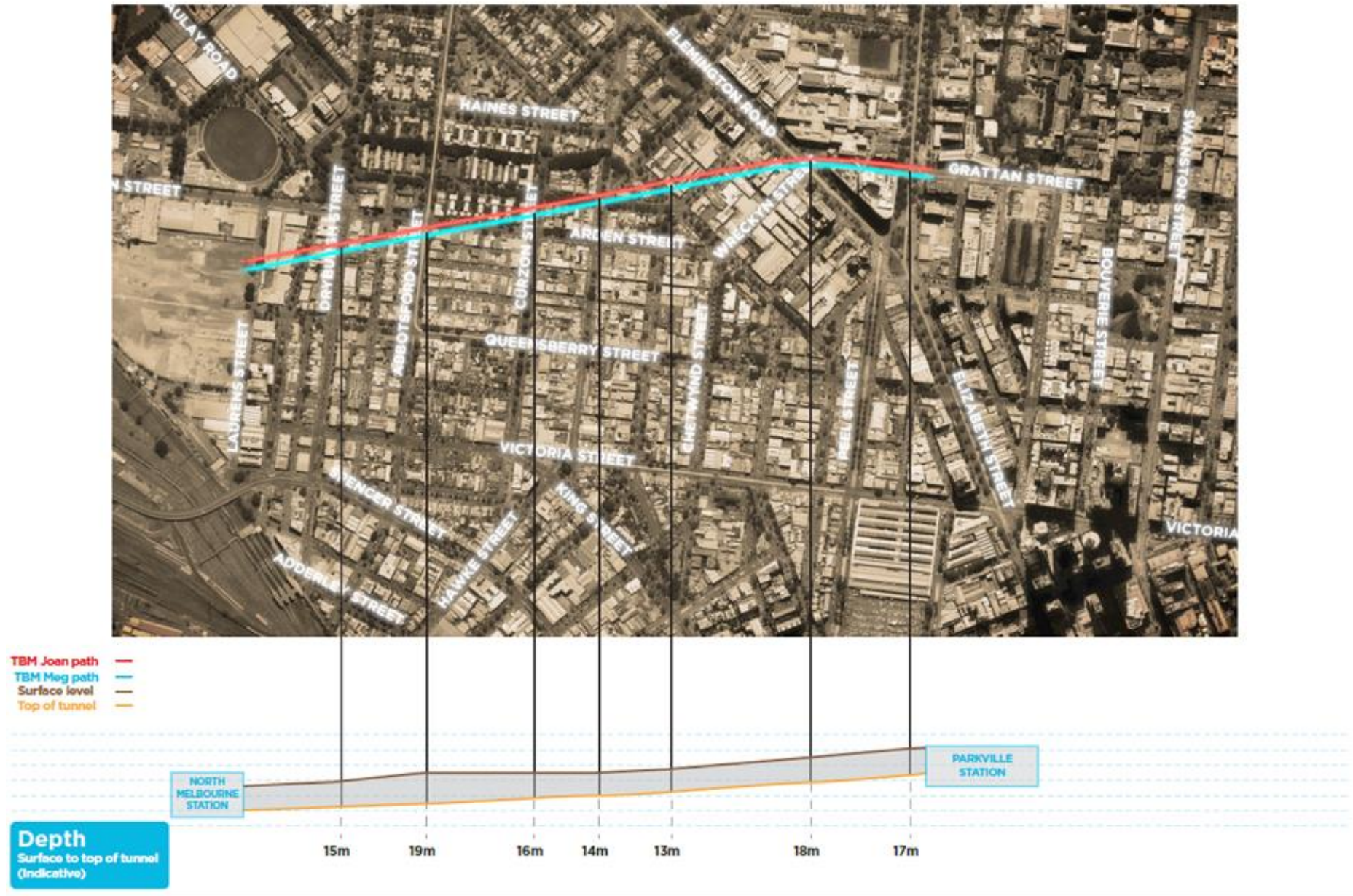


TUNNELLING TIMELINE

Timing	Route
January 2019 – mid 2019	TBM's arrive Arden and assembled
3rd quarter – 4th quarter 2019	TBM 1&2 – Arden to Western Portal
4 th quarter 2019 – 1 st quarter 2020	TBM 1&2 - transported back to Arden
1st quarter 2020 – mid 2020	TBM 1&2 – Arden to Parkville

Timing is indicative and subject to change

TUNNEL ALIGNMENT AND DEPTH





STRATA ACQUISITION PROCESS

What is strata?

- Acquisition of land below the surface where the tunnels pass through
- May be required because tunnels require a buffer zone around them for protection purposes and properties may be within this buffer zone
- The project will need to formally acquire land ranging from 10 to 40 metres below the natural ground where the tunnels will run
- Will not impact use of the existing property at surface
- May be temporary impacts during construction.



STRATA ACQUISITION PROCESS

- Will not commence until planning approval is achieved (late 2016), a Project Area is designated (early 2017) and the appropriate strata footprint is known and declared as 'Underground Land'
- 'Underground Land' declaration – third quarter 2019
- The final strata impact of the project may be the same or less than what is currently identified, but it cannot be bigger.



STRATA PROCESS

1. Tunnel Stratum is declared Project Land

If part of the land beneath the surface of your property is required for the tunnel, it will be acquired by way of an Order published in the Victorian Government Gazette.

Prior to gazettal, all affected landowners informed in writing by RPV of the upcoming acquisition and provided with further information on the process, including claims process.

2. Claim for compensation

If you believe you have suffered a financial loss because strata acquisition, you will have two years to submit a claim to RPV.

If you submit a claim, RPV must either accept or respond with an alternative offer and the process of negotiation is guided by the Land Acquisition and Compensation Act 1986.

3. Payment

If your claim is accepted or an offer of compensation is made by RPV, the process is the same as that applying to surface acquisitions.



NEXT STEPS

- Pre-divestment letters to be sent to landowners (early-mid June 2019)
- Gazettal of underground land (third quarter 2019, no earlier than mid-July).

ENVIRONMENT UPDATE



ENVIRONMENT – CONSTRUCTION NOISE & VIBRATION

- TBM ground borne noise and vibration assessment detail to be presented at the June CRG meeting
- Monitoring results from the TBM travelling between North Melbourne and Kensington will be used to validate modelling for the TBM travelling between North Melbourne and Parkville
- An extensive communications and engagement strategy will be in place to ensure property owners and residents along the alignment are informed in advance of the TBMs travelling through an area
- We will work with any stakeholders requiring special consideration
- Offers for property condition surveys will be made to relevant properties along the tunnel alignment between North Melbourne and Parkville well ahead of construction from around September 2019.

ENVIRONMENT – OPERATIONAL NOISE & VIBRATION

- Tunnel operational noise and vibration assessment detail likely to be presented at the June CRG meeting
- Design development includes the need to comply with strict operational noise and vibration design requirements
- Validation of the operational noise and vibration is required as part of the EPRs.

QUESTIONS?



NEXT MEETING

- Friday 14 June 2019



Western Portal

South Kensington

North Melbourne

Parkville

State Library

Melbourne Central

Flagstaff

Parliament

Town Hall

Southern Cross

Flinders Street

Richmond

Anzac

South Yarra

Eastern Portal

Cranbourne / Pakenham Line

The existing 'North Melbourne' station will be renamed West Melbourne.

West Melbourne

Sunbury Line