



ARDEN AND PARKVILLE COMMUNITY REFERENCE GROUP

MEETING 6

13 SEPTEMBER 2019

AGENDA

1. Introductions and welcome
2. Construction update - Parkville
3. Construction update - North Melbourne
4. Cross passage ground improvement works (CP5)
5. Tunnelling update
6. Engagement and communications update
7. Questions
8. Meeting close

CONSTRUCTION UPDATE - PARKVILLE



WHAT'S HAPPENING AT GRATTAN STREET EAST

- Phase 2 excavation underway
- Phase 3 excavation
- Q4 2019
- Station box bulk excavation
scheduled for completion
- Q4 2019
- Strut and ground anchor
installation ongoing
- Works underway on the
northern side of the box to
relocate services, install
struts, commence excavation

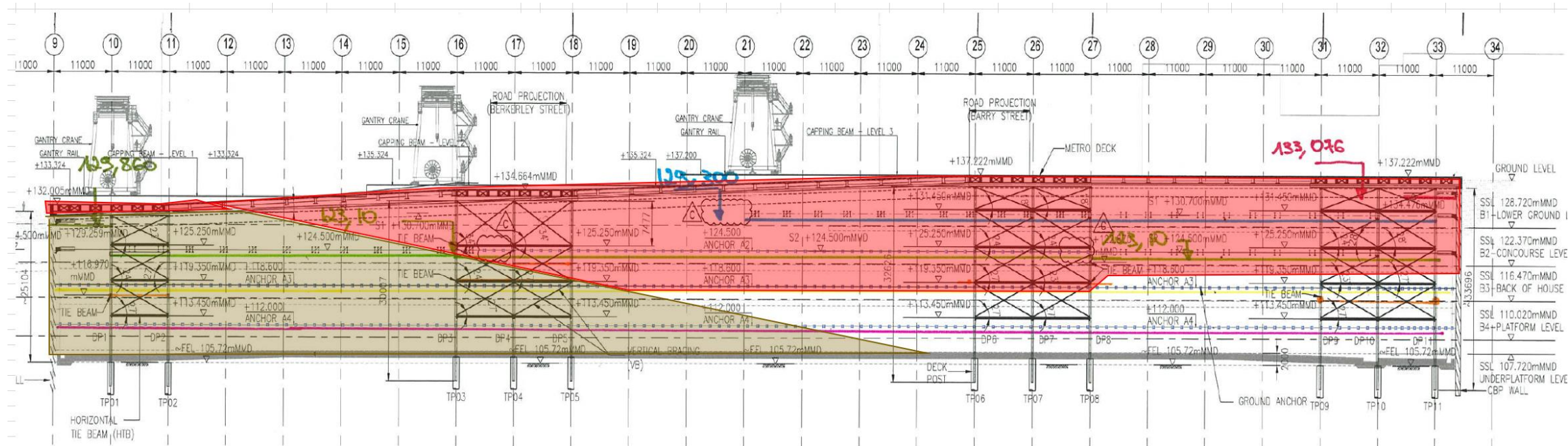


PARKVILLE 2019/2020 TIMELINE

Activity	Aug 2019	Sep 2019	Oct 2019	Nov 2019	Dec 2019	Jan 2020	Feb 2020	Mar 2020	Apr 2020	May 2020	Jun 2020	Jul 2020	Aug 2020	Sep 2020	Oct 2020	Nov 2020	Dec 2020
Grattan St east/ Closed excavation – trucks removing material under deck (Stage 2)																	
Grattan St east/ Retail and entrances excavation																	
Grattan St west/ Service relocations																	
Gantry cranes remove excavated material/ load into trucks waiting inside acoustic enclosures (Stage 3)																	
Grattan St east/ Base slab construction																	
Grattan Street west/ Station entrance construction																	

Dates subject to change

EXCAVATION PROGRESS



RED

Excavated to date 18m

WHITE

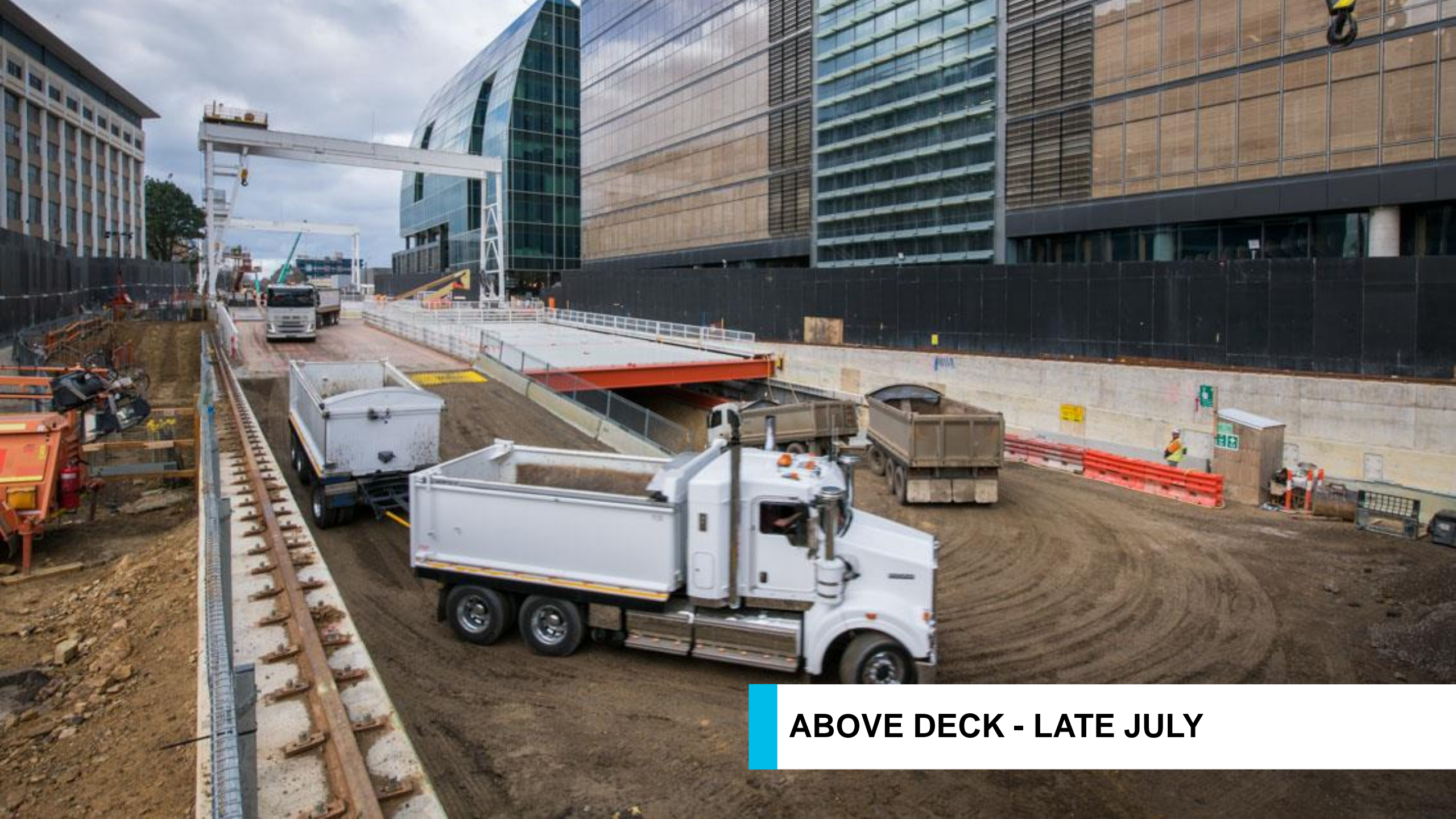
Excavation - Phase 1
approximately 14 m to excavate

BROWN

Ramp - Phase 2



ABOVE DECK - LATE JULY



ABOVE DECK - LATE JULY



WEST LOOKING EAST - AUGUST



LOOKING WEST - AUGUST



EAST END - AUGUST

WHAT'S HAPPENING AT GRATTAN ST WEST

Early October to late 2019

- Telecommunications/utility service relocations

Mid-October to mid-November 2019

- Sewer bore in VCCC footpath

Early to mid-October 2019

- Enabling works – temporary traffic cut-overs (Royal Parade northbound service lane)

Early November to early December, 2019

- Royal Parade northbound service lane – Occupation #1
 - 3-4 week continuous closure of northbound service lane (24/7)
 - Intersection of Royal Parade and Grattan Street to remain open
 - Closure area to extend to include intersection of Royal Parade and Grattan Street during weekends only

Late January to late February, 2020

- Grattan Street West – Occupation #2
 - 3-4 week continuous closure between Flemington Road and Royal Parade (24/7)
 - Extending to the intersection during weekends only

March to April 2020

- Commence West box piling

Late 2021/Early 2022

- Commence Royal Parade pedestrian underpass construction (mined tunnel)

Access for ambulances, emergency services and public transport will be maintained at all times across these works

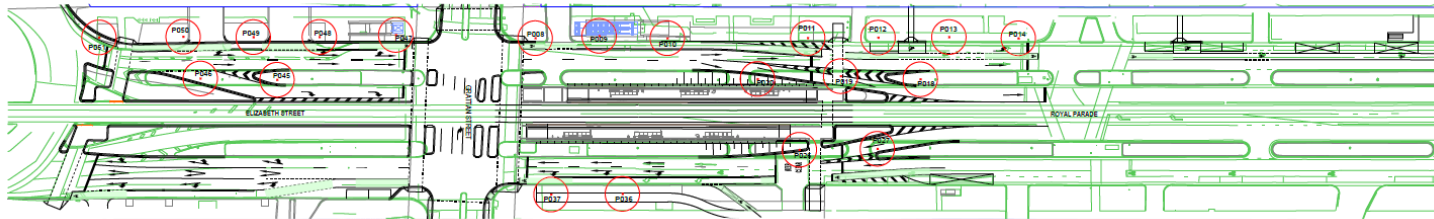
HERITAGE APPLICATION

Heritage Victoria permit approved, with conditions, in August 2019 to:




- Construction of the Parkville Station entrances outside of The Royal Melbourne Hospital and Peter MacCallum Cancer Centre
- Construction of a tram 'super-stop' within the central roadway, north of Grattan Street intersection
- Reinstatement of the area in line with the approved Legacy Design

HERITAGE APPLICATION

- Heritage application covers both temporary and permanent works:
 - partial removal of the existing bluestone kerb and channel to the outer service lanes of Royal Parade
 - partial removal of the existing central medians with tiered concrete kerbing
 - removal of existing road surfaces and associated road and tramway infrastructure and signage
 - removal of some trees within Elizabeth Street and Royal Parade



LEGEND:

-  P045 EXISTING TREE TO BE REMOVED
-  EXISTING SURVEY/KERB LINE
-  PROPOSED KERB LINE

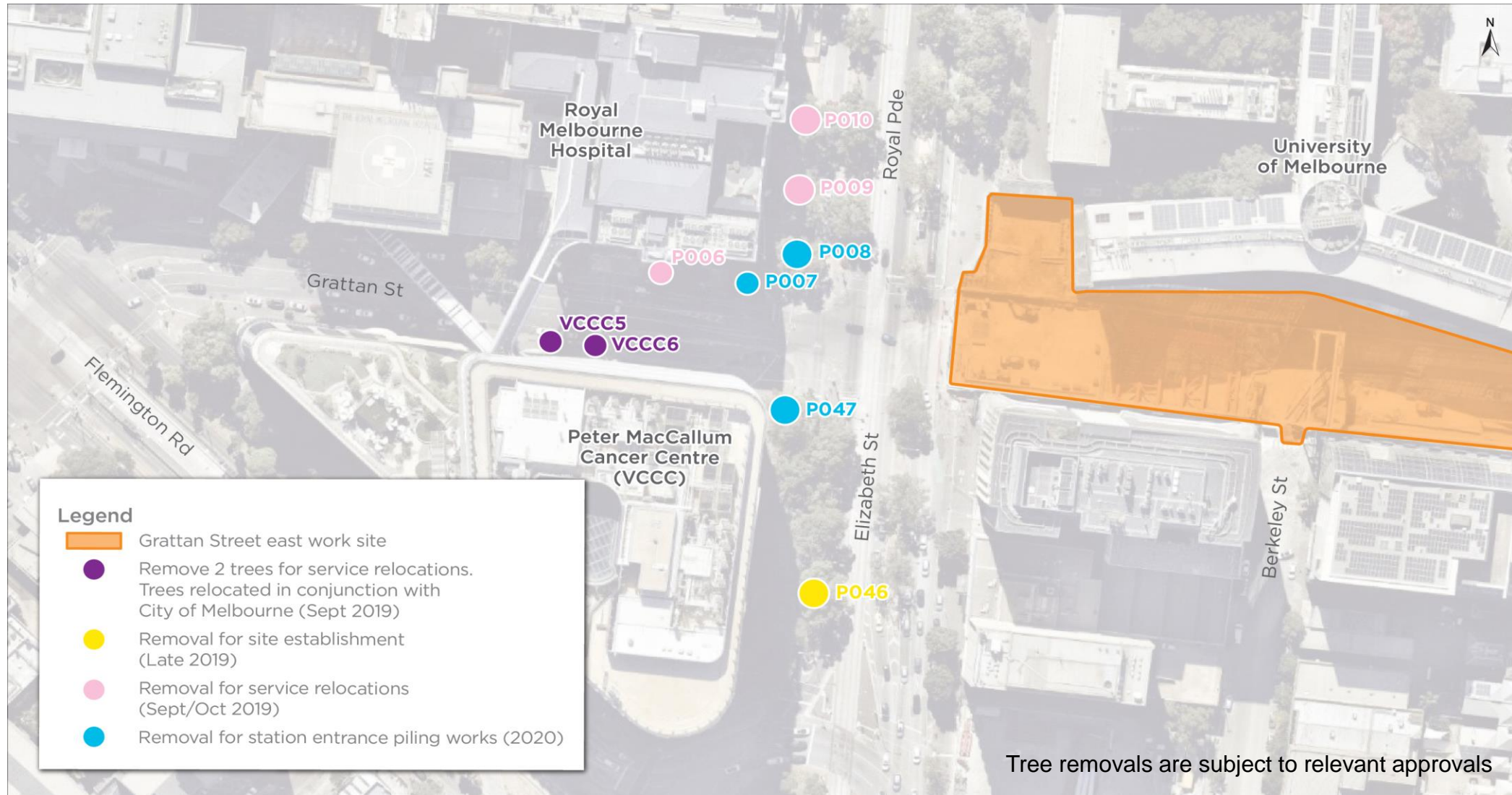
ISSUED FOR HERITAGE PERMIT APPLICATION VHR H2198 ROYAL PARADE

SK-A3107
DATE: 04/07/2019
REV: A

CONCEPT DESIGN ONLY

BIKE LANE CONFIGURATION UNDER REVIEW AND SUBJECT TO CHANGE

UPCOMING TREE REMOVALS



CONSTRUCTION UPDATE – NORTH MELBOURNE

CONSTRUCTION PROGRAM

Activity	Sept	Oct	Nov	Dec	Jan	Feb
Gantry shed construction						
East box base slab construction						
East box wall construction						
TBM assembly						
Tunnelling towards Kensington						
Cross passage ground improvement - Lothian St (CP5)						

Program is indicative and subject to change

WHAT'S HAPPENING IN NORTH MELBOURNE

Out of hours works

- 6pm –10pm (evening works), Monday to Friday
 - Over-size equipment deliveries to and from site and use of a crawler crane to unload deliveries
 - Base slab and inner wall construction, and strut removal (east box)
 - TBM assembly, tunnelling, slurry treatment plant, grout pump and segment facility operation
- 10pm – 7am (night works), Monday to Friday
 - Over-size equipment deliveries to and from site and use of a crawler crane to unload deliveries
 - Base slab and inner wall construction, and strut removal (east box)
 - Concrete deliveries for base slab construction
 - TBM assembly, tunnelling, slurry treatment plant, grout pump and segment facility operation
 - Road cleaning on Arden Street as required

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

WHAT'S HAPPENING IN NORTH MELBOURNE



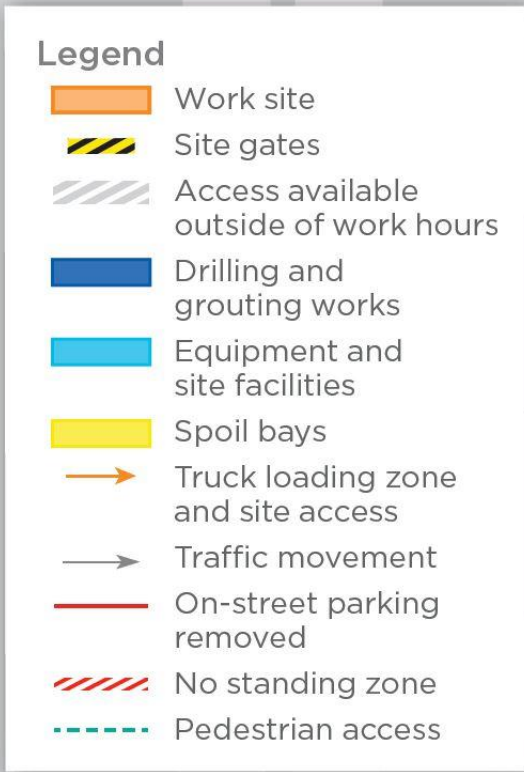
WHAT'S HAPPENING IN NORTH MELBOURNE (ARDEN)



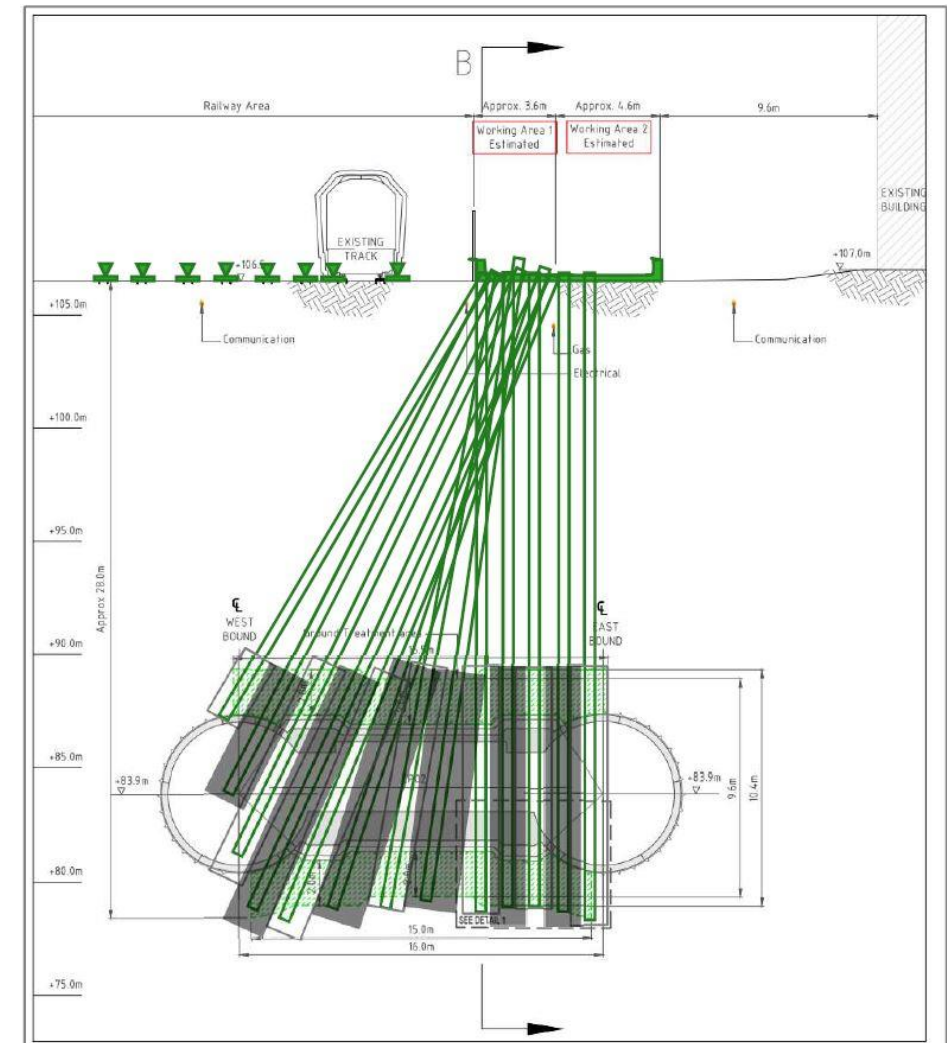
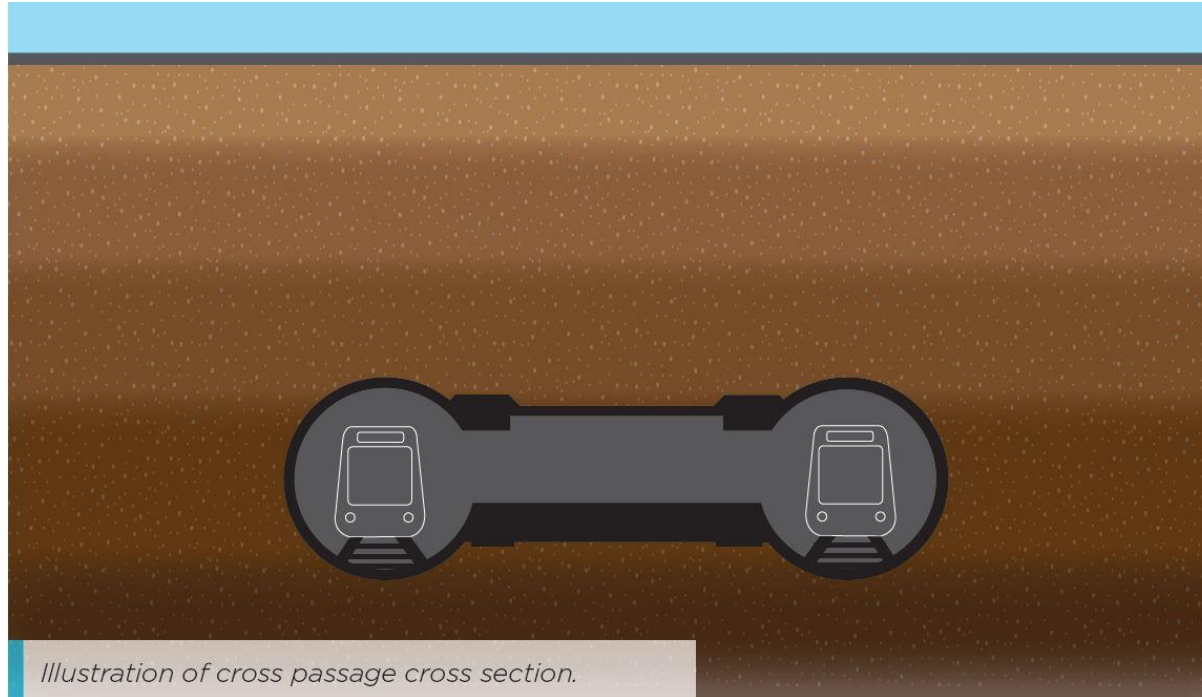
Construction partner:



CROSS PASSAGE GROUND IMPROVEMENT WORKS (CP5)



CROSS PASSAGE GROUND IMPROVEMENT WORKS



Indicative image of cross passage jet grouting works

CROSS PASSAGE GROUND IMPROVEMENT WORKS

- NDD service proving complete and underground services confirmed
- Site establishment: from 10 September (3 weeks)
- Jet grout trials: from end September (3 weeks)
- Production jet grouting: from end October (up to 7 months)
- Completed communication and engagement:
 - Door knocks/meetings with directly impacted residents (Lothian Street, between Arden and Queensberry, Little Dryburgh Street N and Little Lothian Street N) – 26 and 27 August and 4 September
 - Door knocks/meetings with directly impacted businesses (Lothian Street, between Arden and Queensberry, Little Dryburgh Street N and Little Lothian Street N) – 22 August and 5 September
 - Provision of works notifications.

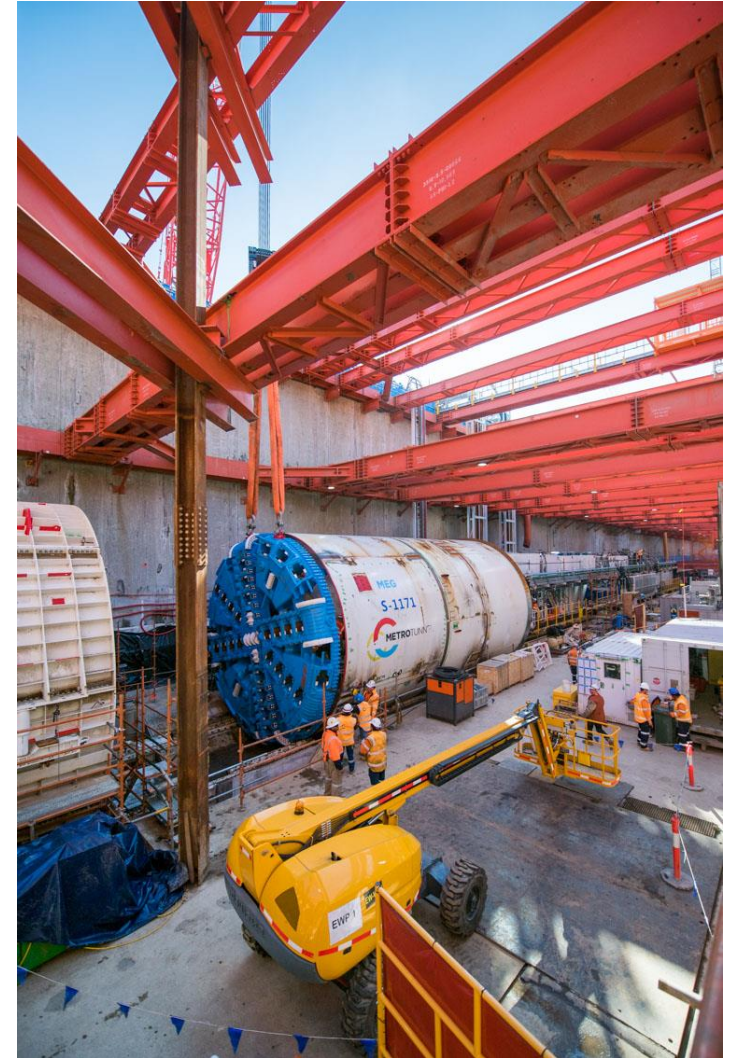
TUNNELLING



TBM ASSEMBLY AND BLESSING



TBM ASSEMBLY



TUNNELLING TIMELINE

Indicative timing	Activity
Q1 2019 – Q3 2019	TBM 1 & 2 arrive at Arden and assembled
Q3 2019 – Q4 2019	TBM 1 & 2 tunnelling Arden to Western Portal
Q1 2020	TBM 1 & 2 retrieved and transported back to Arden
Q1 2020 – Q4 2020	TBM 1 & 2 tunnelling Arden to Parkville

Program is indicative and subject to change

ENVIRONMENT – CONSTRUCTION NOISE & VIBRATION

- TBM Ground borne Noise and Vibration Model Process
 1. Model project wide impacts
 2. Validate in stages
(North Melbourne to Kensington; North Melbourne to Parkville) - attended monitoring
 3. Update model with attended monitoring data
- Consultation will be progressively undertaken with potentially affected residents prior to TBM arrival

STAKEHOLDER AND COMMUNICATIONS UPDATE

ENGAGEMENT & COMMUNICATIONS UPDATE

NORTH MELBOURNE AND PARKVILLE

Notifications and communications

- Pile break back OOHW update
- North Melbourne August - September Construction Update (13 August)
- North Melbourne – OOH gantry crane construction DL (16 August)
- North Melbourne – commencement of tunnelling DL (10 September)
- North Melbourne – commencement of ground improvement works, Lothian Street (4 and 5 September)

Door knocks, meetings, briefings and events

- City of Melbourne fortnightly progress meetings
- Ongoing fortnightly meetings with Peter Mac, Melbourne Health, UoM, Graduate House, CoM
- Monthly business health check
- North Melbourne Community Day (4 August)
- Lecture to engineering students on project by Peter Hunt at the University of Melbourne (16 August) and site tour (19 August)
- University of Melbourne Open Day (18 August)
- MAURI ANZ monthly works interface meeting (22 August)
- Peter Doherty Institute staff site tour (23 August)
- Small business project precinct site tour (23 August)
- Lothian Street businesses – commencement of ground improvement works (22 August and 5 September)
- Residents of Lothian Street – commencement of ground improvement works (26, 27 August and 4 September)
- University of Melbourne site tour with Project Interface Team (28 August)
- Support and coordination for PDI Family Day (Sept 8)
- Lecture to UoM students on project and energy efficiency tech by CYP Mark Wells at the University of Melbourne (5 Sept)
- Lecture to UoM students on procurement by RPV James Sutherland (9 Sept)

ENGAGEMENT & COMMUNICATIONS UPDATE

NORTH MELBOURNE AND PARKVILLE

Community issues/enquiries

- Noise and vibration
- Tunnel alignment enquiries and property condition survey requests

Upcoming engagement

- Ongoing discussion with hospitals in relation to engagement and collateral for service relocation works, regarding Grattan Street west
- Cross passage ground improvement notification and meetings with residents and businesses
- Site tours University of Melbourne, Graduate House and Peter Mac (20 August)
- Site tour Community Reference Group (13 September)
- CP5 ground improvement works resident/business health check door knock/drop in (24 September)
- North Melbourne tunnelling commencement resident health check door knock (8 October)
- Site tour for Institute of Civil Engineers (14 October)

QUESTIONS?



NEXT MEETING

Friday 1 November 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.