



ARDEN AND PARKVILLE COMMUNITY REFERENCE GROUP

MEETING 5

2 AUGUST 2019



Construction partner:



AGENDA

1. Introductions and welcome
2. Parkville construction update
3. North Melbourne construction update
4. Cross Passage Ground Improvement Works (CP5)
5. Tunnelling update
6. Stakeholder & Communications update
7. Questions
8. 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							█	█	█	█	█	█
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

- Phase 2 excavation underway
- Phase 3 excavation - Q4 2019
- Bulk excavation of the station box 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.





EXCAVATION

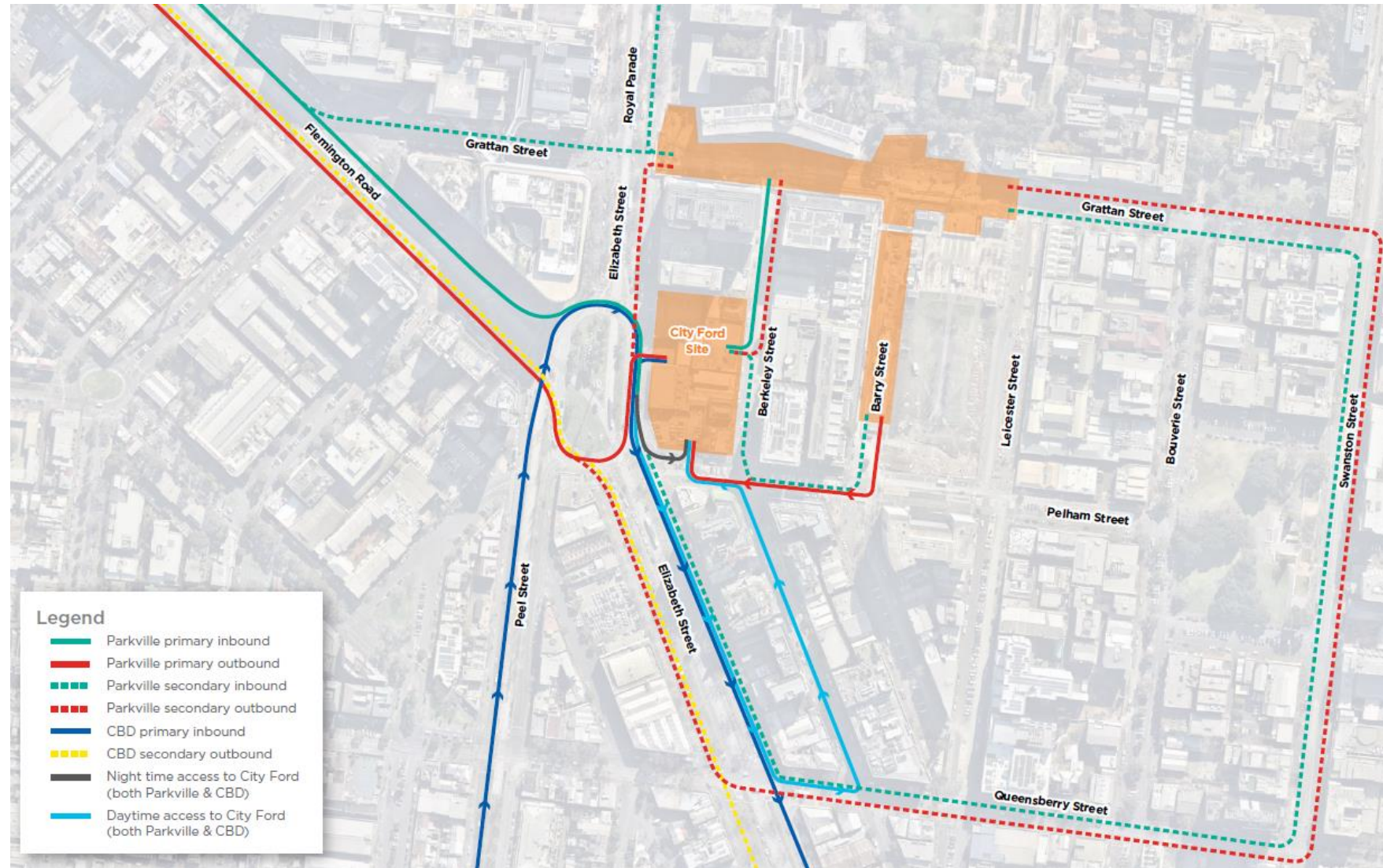


EXCAVATION



CITY FORD

- City Ford
 - Pelham Street vehicle access – construction commenced. Will take approximately two weeks
 - Truck route agreed with ongoing discussion around mitigations
 - Metro Tunnel is interfacing with multiple construction projects in the Precinct. Any concerns around Metro Tunnel trucks please take note of rego and advise CYP.



WHAT'S HAPPENING AT GRATTAN ST WEST

August 2019

- Sewer bore in VCCC footpath
- Telstra relocations

August/September 2019

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

September/October 2019

- Royal Parade northbound service lane – Occupation #1
 - 2-3 week continuous closure across school holiday period (24/7)
 - extending to the intersection during weekends only

November/December 2019

- Grattan Street West – Occupation #2
 - 2-3 week continuous closure (24/7)
 - extending to the intersection during weekends only

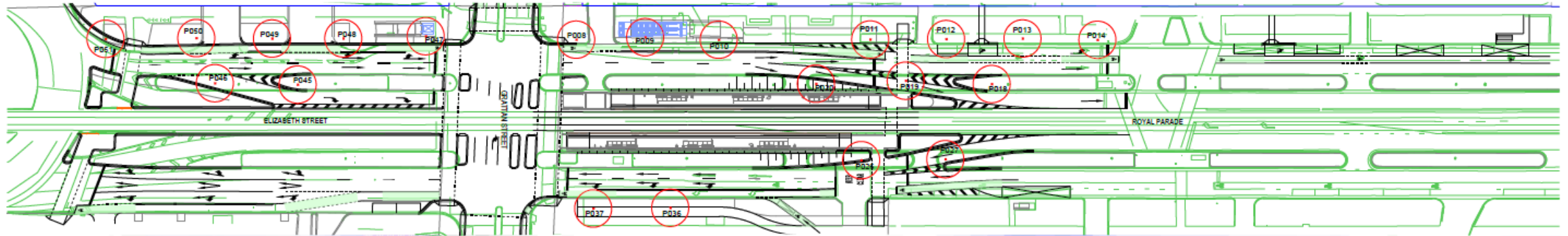
Commence West box piling – early 2020

Commence pedestrian underpass (mined tunnel) – late 2021.


HERITAGE APPLICATION

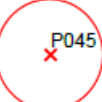
- Heritage Application submitted for works to:
 - construct the Parkville Station entrances outside of The Royal Melbourne Hospital and Peter MacCallum Cancer Centre
 - construction of a tram ‘super-stop’ within the central roadway, north of Grattan Street intersection
 - reinstatement of the area in line with the approved Legacy Design
- Public notification completed (31 July 2019)
- 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
- Number of trees to be removed subject to final design.


HERITAGE APPLICATION




LEGEND:



 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

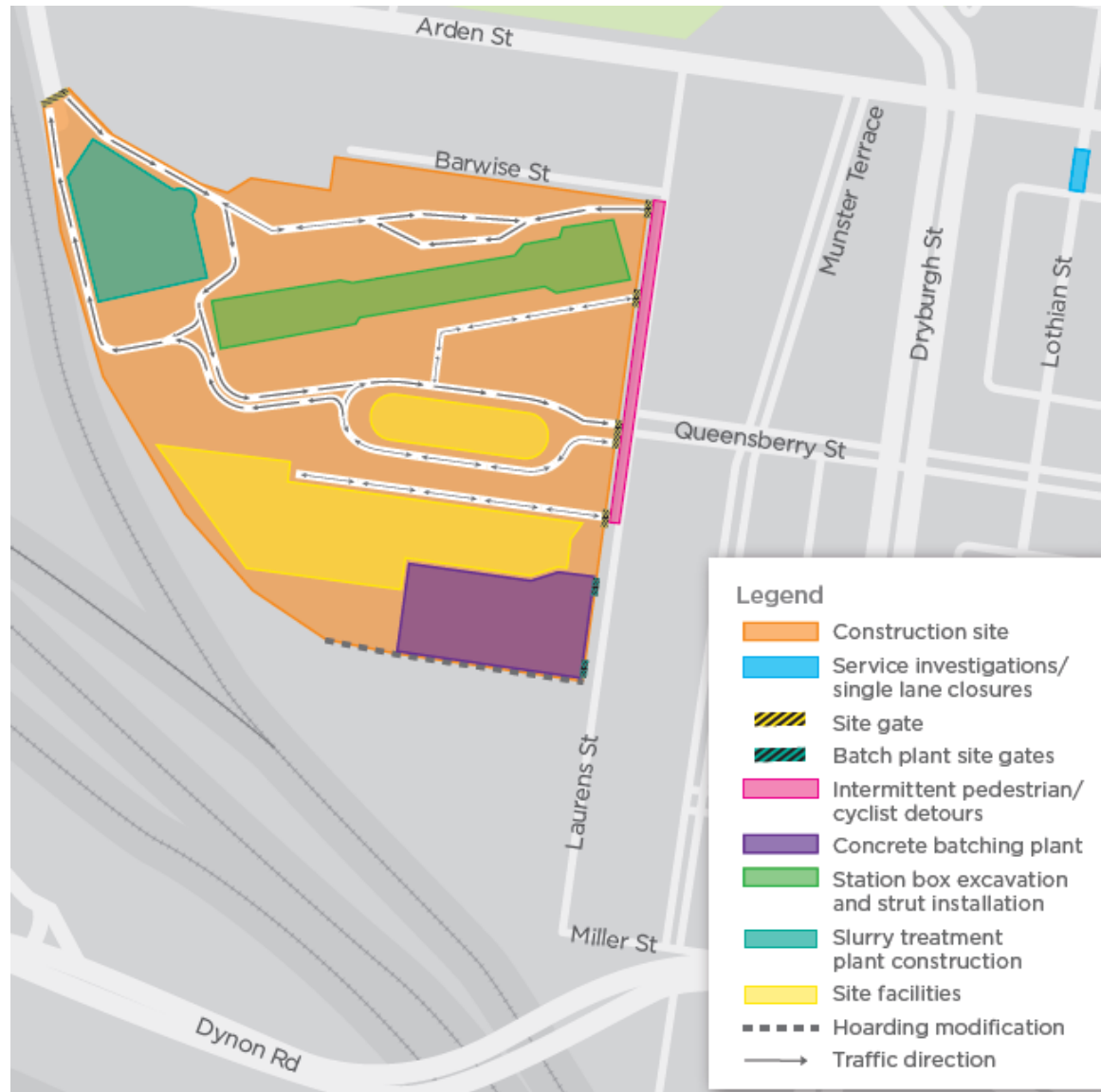
CONCEPT DESIGN ONLY

BIKE LANE CONFIGURATION UNDER REVIEW AND SUBJECT TO CHANGE

CONSTRUCTION UPDATE – NORTH MELBOURNE



CONSTRUCTION SITE – NORTH MELBOURNE



CONSTRUCTION PROGRAM

Activity	Aug	Sept	Oct	Nov	Dec	Jan
Slurry treatment plant commissioning						
Excavation of station box						
Base slab 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

- Slurry treatment plant commissioning
- Station box excavation and installation of steel struts (east box)
- Removal of steel struts (west box)
- Station box base slab construction (east box)
- TBM assembly
- Surveying, and sampling and testing of groundwater and soil
- Short-term lane closures on Laurens Street for utility design investigations
- Short-term lane closures on Lothian Street for cross passage ground improvement service investigations
- Road cleaning on Arden and Laurens streets to minimise the spread of dirt on local roads.

WHAT'S HAPPENING IN NORTH MELBOURNE

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

WHAT'S HAPPENING IN NORTH MELBOURNE (ARDEN)



Construction partner:



CROSS PASSAGE GROUND IMPROVEMENT WORKS (CP5)



WORKS LOCATION – LOTHIAN STREET



Location of initial service investigation works to be undertaken

CROSS PASSAGE GROUND IMPROVEMENT WORKS

- NDD service proving complete and underground services confirmed
- Site establishment and production planning underway
- Site establishment due to occur in late August/early September
- Ground improvement works currently programmed to commence during September
- Upcoming 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)
 - Door knocks/meetings with directly impacted businesses (Lothian Street, between Arden and Queensberry, Little Dryburgh Street N and Little Lothian Street N)
 - Provision of construction update notifications

TUNNELLING



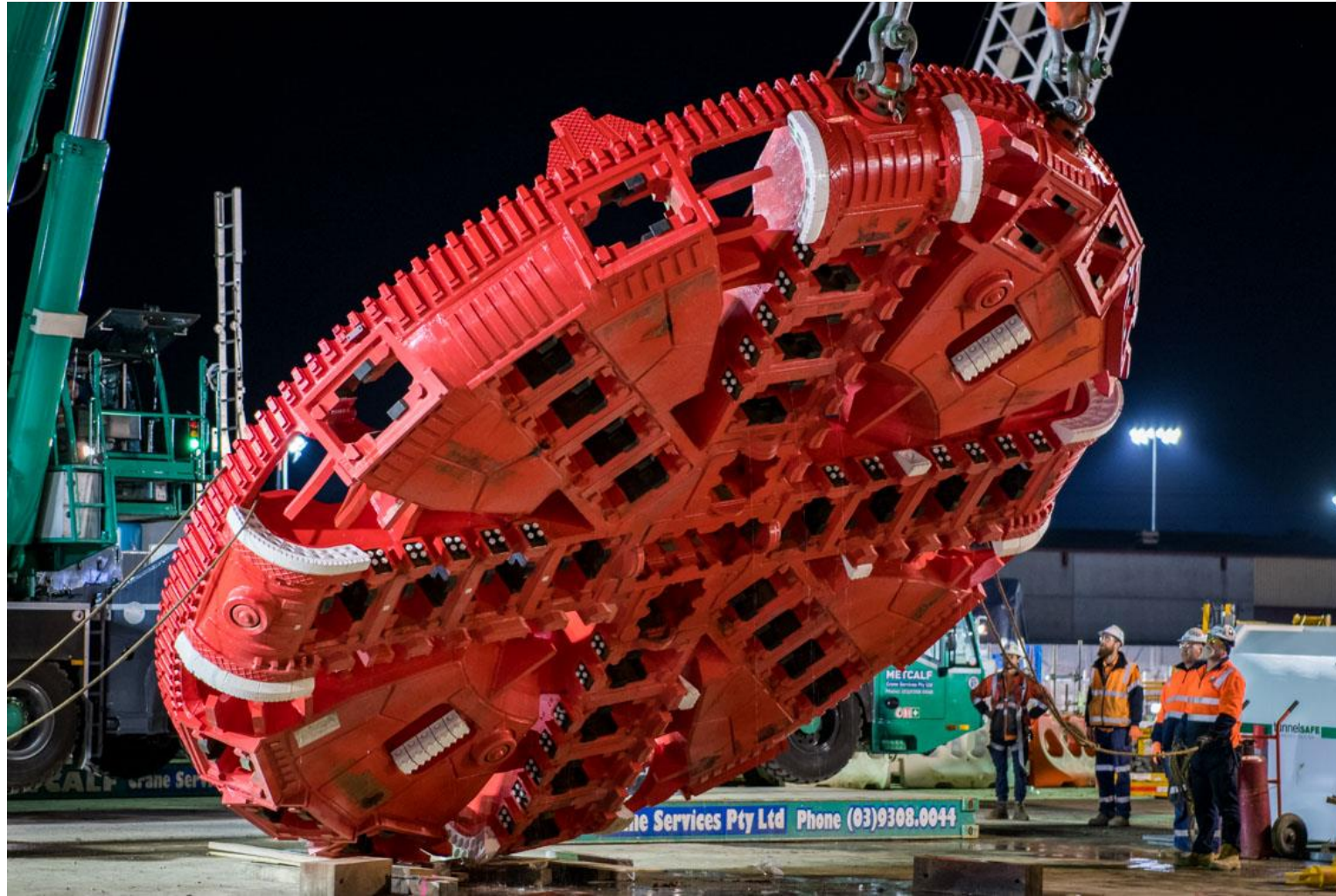
TBM ASSEMBLY



TBM ASSEMBLY



TBM ASSEMBLY – CUTTERHEAD



TBM ASSEMBLY – CUTTERHEAD



TBM ASSEMBLY – CUTTERHEAD



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 (Arden to Kensington; Arden to Parkville) - attended monitoring
 3. Update model with attended monitoring data
- Consultation will be progressively undertaken with potentially affected residents prior to TBM arrival.

ENVIRONMENT – OPERATIONAL NOISE & VIBRATION

- Operational noise and vibration assessment ongoing, including modelling High Capacity Metro Trains (HCMT)

STAKEHOLDER & COMMUNITY ENGAGEMENT



ENGAGEMENT & COMMUNICATIONS UPDATE

ARDEN AND PARKVILLE

Notifications and communications

- City Ford establishment works/ line-marking – issued 12 July
- Pile break back OOHW update – issued 24 July
- August/September Construction Update - to be issued first week of August

Door knocks, meetings, briefings and events

- Cross passage ground improvement NDD notification and meetings with residents and businesses – 1, 2, 3 July
- City of Melbourne fortnightly progress meetings – 2 June, 10 July, 24 July
- Ongoing fortnightly meetings with Peter Mac, Melbourne Health, UoM, Graduate House, CoM
- Monthly business health check
- Open House Melbourne held at Parkville on the weekend 27/28 July
- Preparing for UoM Open Day on Sunday 18 August
- Ongoing requests for lectures/ site tours for UoM students

ENGAGEMENT & COMMUNICATIONS UPDATE

ARDEN 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
- Cross passage ground improvement notification and meetings with residents and businesses
- North Melbourne Community Day

NORTH MELBOURNE COMMUNITY DAY

- Sunday 4 August, 8am – 5pm
- Community-based event to showcase site operations prior to TBM launch
- Feature of the day to be group tours

QUESTIONS?





NEXT MEETING

Friday 13 September 2019





Western Portal

South Kensington

North Melbourne

Parkville

West Melbourne

Melbourne Central

State Library

Parliament

Flagstaff

Town Hall

Southern Cross

Flinders Street

Richmond

Anzac

South Yarra

Eastern Portal

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

Sunbury Line

Cranbourne / Pakenham Line