



Arden and Parkville Community Reference Group

Meeting 26

Friday 16 September 2022



Arden and Parkville CRG Agenda

Friday 16 September 2022



Item	Topic	Presenter
1	Welcome and introductions	Chris Lovell
2	Minutes and actions	Chris Lovell
3	CYP construction update: <ul style="list-style-type: none">• Projectwide overview• Rail and tunnel fit out• North Melbourne: Arden Station, North Melbourne Electrical substation• Parkville: Grattan Street east, Grattan Street west, reinstatement and public realm works, environment update	CYP
4	Communications and stakeholder engagement update	CYP
5	Creative Program	
6	Other business	Chris Lovell

Presenter: Chris Lovell

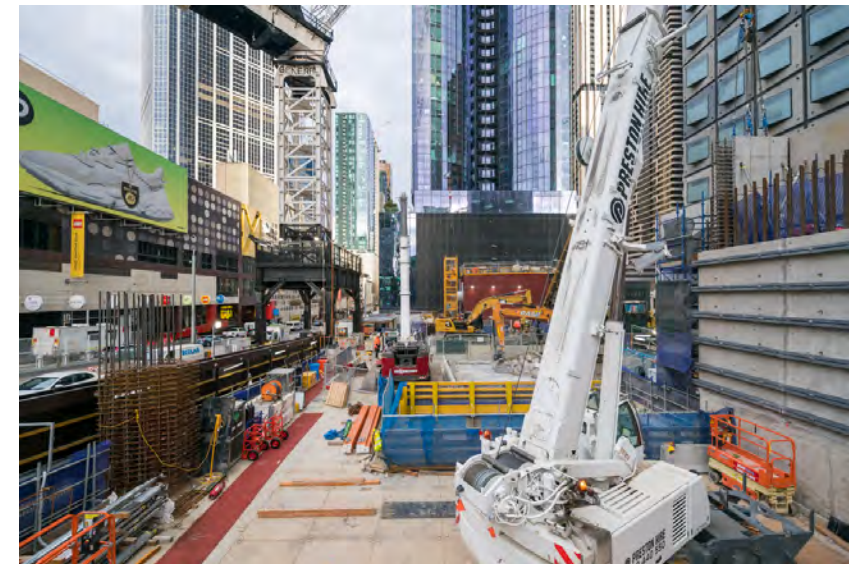
Minutes and Actions

Construction Update: Project-wide

State Library Station



- Platform tunnel works have commenced in the cavern
- Shaft construction and MEP installation is continuing at the Franklin St East and West sites
- Shaft and adit construction is continuing at the Little La Trobe St site
- Shaft construction is continuing at the La Trobe St site. Excavation of B5 has commenced
- Station entrance works at the La Trobe Street site are underway with construction of the eastern core wall and columns (pictured)



Town Hall Station



- Excavation at Flinders Quarter is now complete. This marks the completion of bulk excavation across the Town Hall Station Precinct
- Two tower cranes have now been installed on Swanston Street. They will support the removal of the acoustic shed which commences in mid-September and will be complete by early 2023.
- Lining and structures works continuing within the station cavern, rail tunnels and adits



Anzac Station



- Construction of the tram/train interchange on St Kilda Road is progressing with skylights now being installed
- Platform construction continues underground with the platform precast installation and topping slabs nearly complete
- Piling work has begun on the second stage of the entrance adjacent to the Shrine of Remembrance
- Works are underway to prepare the surface for the final tram track alignment around the new tram interchange



Tram interchange canopy progress

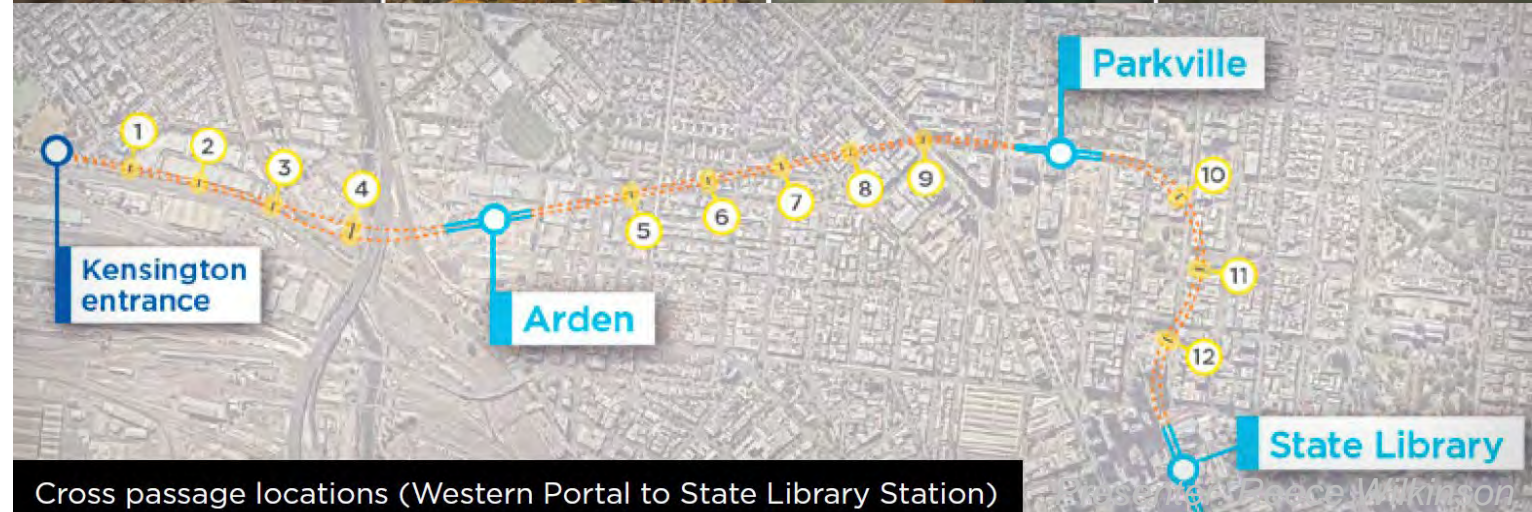
Construction Update: Rail and Tunnel Fit Out

Cross passages update

Cross passages



- Control and monitoring equipment is being installed in the tunnel's 26 cross passages, which connect the parallel tunnels for maintenance and emergency access
- Cross passages 1 - 4, between Arden and the Western Portal, have now been energised.



Cross passage locations (Western Portal to State Library Station)

Rail and tunnel fit out



- Floating slab track (FST) installation is ongoing in the tunnels between Parkville and Arden stations
- Platform screen doors (PSD) are being installed at Parkville Station
- Preparations are underway for the commencement of rail installation in the tunnels later this year.



Parkville Station FST installation

Platform screen doors (PSD) – general structure



Platform side



- 30 automatic sliding doors (ASDs) per platform
- 87 fixed panels (FPs) per platform
- 40 emergency exit doors (EEDs) per platform

Trackside



- Two platform exit doors (PEDs) per platform
- Two driver doors (DDs) per platform

1. Mechanical installation

- Structural elements i.e.. threshold, posts and clamps
- Glass and finishes i.e.. ASDs, FPs, EEDs, PEDs

2. Electrical installation

- Control room equipment,
- Platform electrical equipment
- Station wiring

All works are coordinated with the Rail Network Alliance (RNA)

PSD installation equipment



Walkie stacker



Glass lifter



Hi-rail EWP

PSD façade and protection – Sydney Metro example



Construction Update: North Melbourne

Concourse



- First metal frame of the skylights have been installed, second skylight to be installed in the next 2 weeks
- Fitout continuing on B1; glazing on lifts 3 & 4 is complete
- Prep for glass balustrade for the atrium void and cleaning final trim of exposed concrete surfaces
- Lift testing and commissioning will commence over the next week following installation of glass on the skylights
- Escalators have been installed with testing underway
- On B2 cable tray runs are ongoing

Presenter: Cameron Fields

Platform



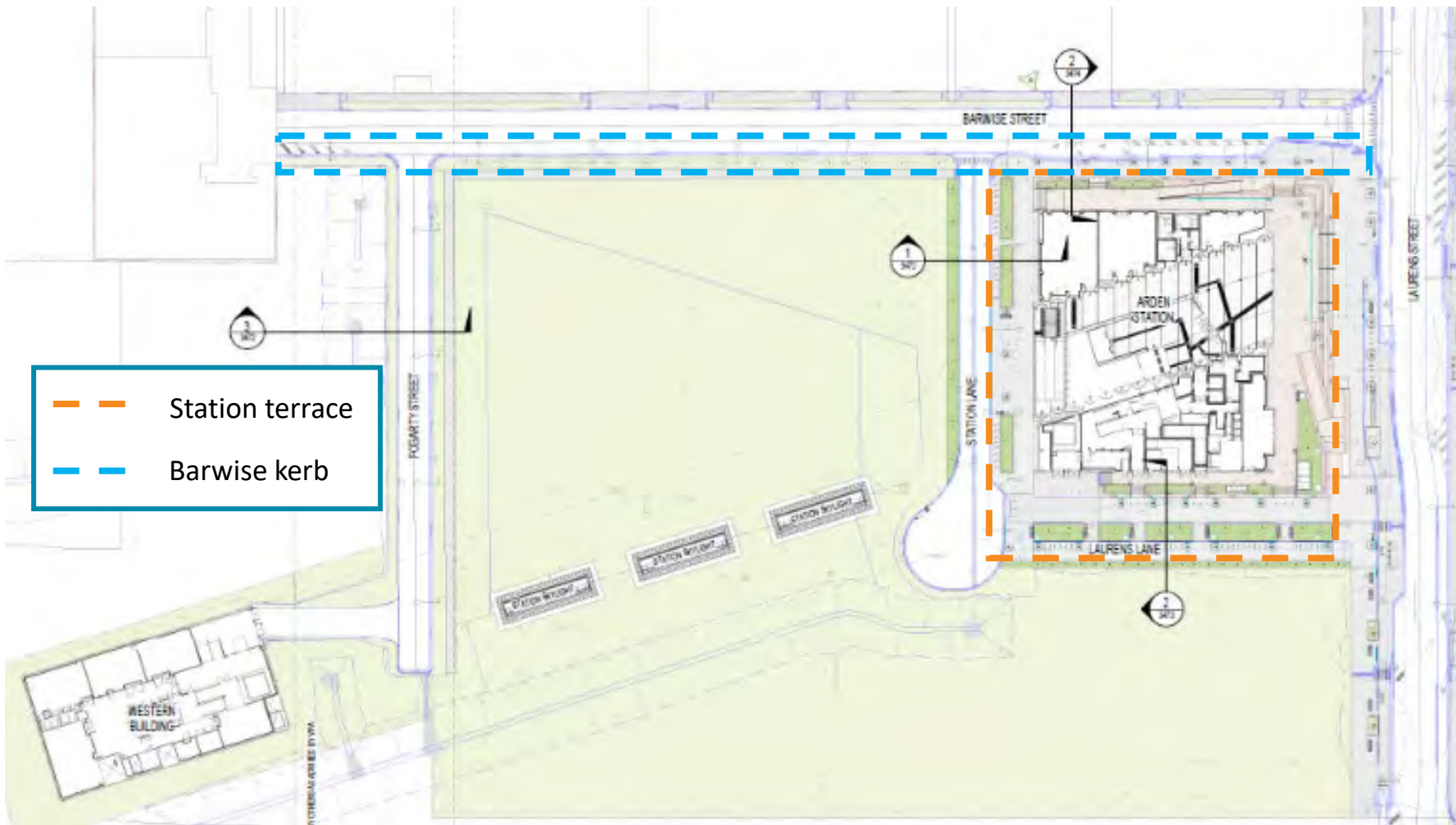
- Cladding has been installed above the over track exhaust
- Wearing slab has been finished
- Installation of feature ceiling baffles has commenced at platform level
- Platform screen door installation is expected to commence after track is laid
- Prep works for PSDs to start in October

Station Construction



- Last of the façade precast panels have been installed on the southern side of the Station entrance on the East building
- Commencement of the terrace surrounding the eastern station building
- Steel frame for the skylights have commenced installation
- Backfill underway surrounding the skylights on top of the station box

Arden – Legacy Works



- With the completion of the station façade, legacy works around Arden Station have now commenced
- This commenced with the sub-grade construction of the stations terrace area
- The first legacy works within the existing public realm will be the kerb works on the south side of Barwise Street

Arden Station – Legacy works



- Terrace sub grade is being formed for the landscaping works
- The first strata vault has commenced installation in the terrace
- Special fill is now being placed into these inground landscape tree pits
- Works over the following months will involve slab pours followed by stone paving and cladding to follow

Arden – Water capture system and solar energy



- Arden Station water capture system collects roof runoff
- Water is stored in 47,000 litre tank
- Water is filtered and used as non potable water for facilities (not for drinking purposes)
- Approx. 300 solar panels 1m x 2m will be installed on the roof, weighing 22kg each
- 410watts of energy collected per panel
- With a potential total output of 125kw

Surface works – Drone footage



Six month program

North Melbourne



Activity	Sept	Oct	Nov	Dec	Jan
Surface and utility works					
Over track exhaust (OTE), platform screen doors and platform construction					
Services building construction					
Station entrance construction					
North Melbourne Electrical Substation construction and landscaping					



Construction Update: Parkville

Grattan Street East

- Fit out works are ongoing in the main box and involve the installation of blockwork walls and mechanical, electrical and plumbing (MEP) systems and architectural features (e.g. cladding)
- Preparation for HV commissioning is underway
- B3: Architectural fit out is underway for back of house facilities
- B4: Architectural fit out (e.g. cladding, feature ceilings, flooring) is underway
 - Platform screen doors (PSD) and cladding is being installed
 - Once the PSDs are installed, ceiling works will commence. Services installation works continue.



Platform level (B4)



Presenter: Tim Fleming

Escalators from the Grattan Street entrance to Concourse (B2)



Presenter: Tim Fleming

Royal Parade Underpass



- The Royal Parade underpass structure is completed
- MEP and architectural fit out works have commenced.

Secondary Boxes

Retail area, Royal Parade entrance, and northeast emergency area



Royal Parade entrance

- Escalator excavation is complete at ground level. Structure works are now underway.

Northeast emergency exit area

- Primary structure is ongoing for upstand walls
- Fit out works are underway below ground

Retail area

- Structure works are ongoing. Following the completion, fit out works (including blockwork wall construction) will commence.



Chiller Plant and Tunnel Ventilation Shafts



Chiller plant

- The structural steel and chillers have been installed
- Façade installation works will commence in late September

Western TVS

- Waterproofing and lining wall works are on hold due to site access restrictions

Eastern TVS

- Ventilation shaft (upstand walls) are being installed
- Hoarding removal works within the University Square Car Park are ongoing:
 - Levels B1 and B2 – late September
 - Levels B3, B4, and B5 – complete



Chiller plant progress

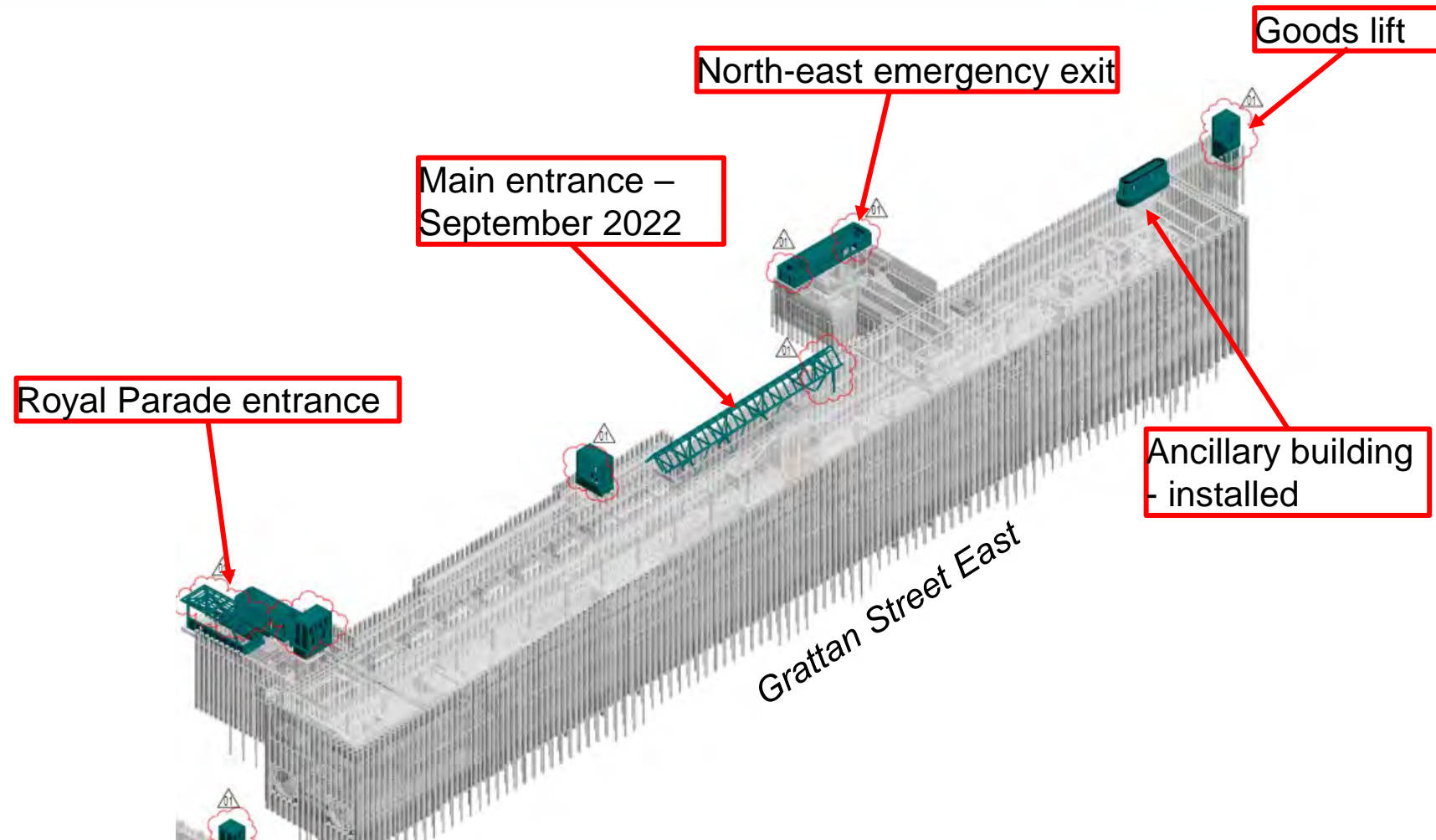
Aboveground structures – Grattan Street East



Aboveground structure installation involves:

- Precast elements
- Mechanical elements
- Steel structure

Some oversized elements will need to be delivered on nightshift.



Ancillary building



Presenter: Tim Fleming

Skylights



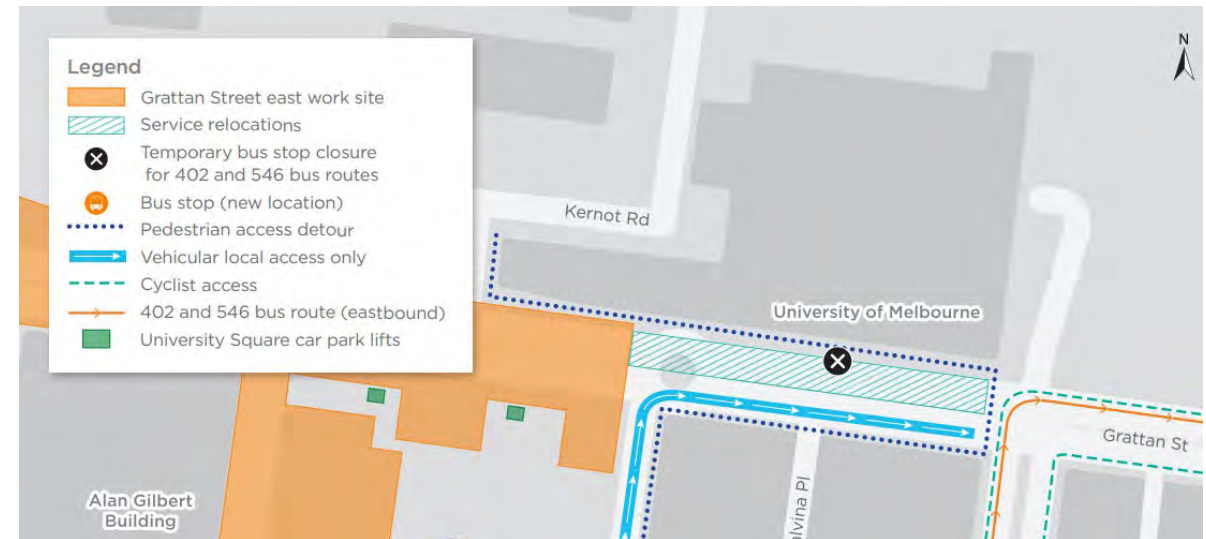
Presenter: Tim Fleming

Service relocations – Grattan Street East

Grattan Street between Leicester and Bouverie streets



- APA gas service relocations are underway and are expected to be finished by 15 September
- Following these service relocations:
 - Goods lift works (excavation, structure) can commence once the gas service relocations are finished
 - Reinstatement and public realm works can commence on Grattan Street between Leicester and Bouverie streets

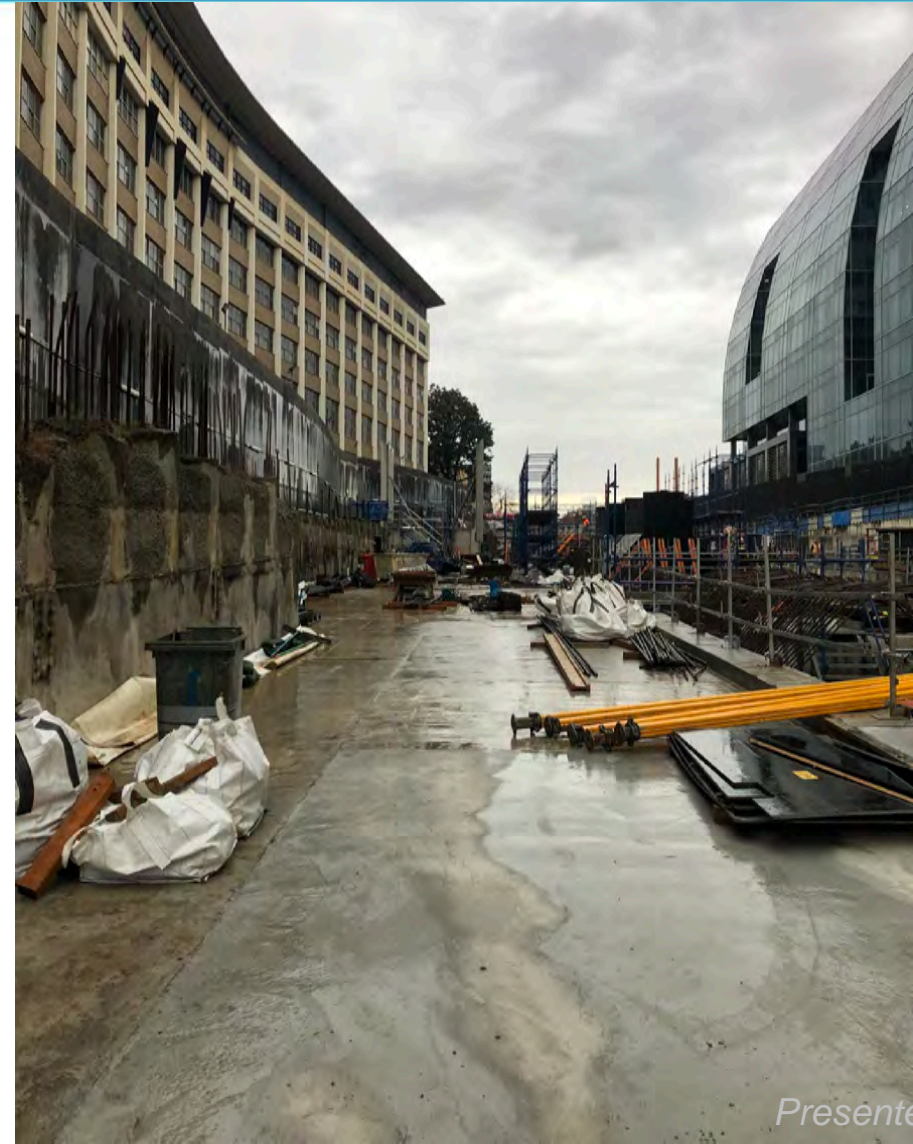


Capping beam and pedestrian gantry removal works – Grattan Street East

Grattan Street southern footpath between Elizabeth and Barry streets



- As part of ongoing station structure works, the capping beam has to be removed
- Staged capping beam removal works have been ongoing around the station box
- To remove the southern capping beam, footpath closures will need to be implemented.



Presenter: Tim Fleming

Capping beam and pedestrian gantry removal works – Grattan Street East

Grattan Street southern footpath between Elizabeth and Barry streets

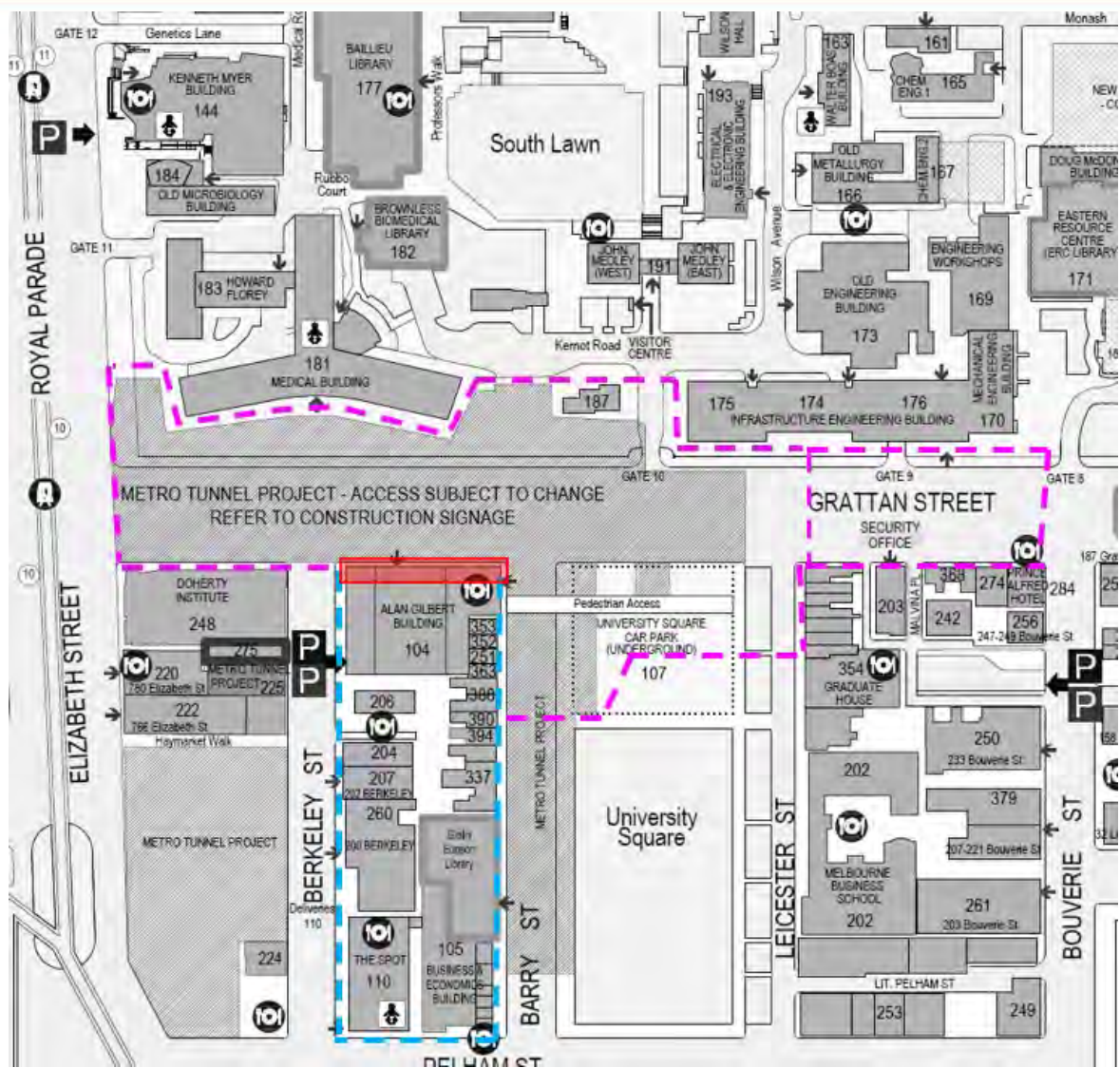


- Southern capping beam removal works will be divided into two stages:
 - Stage 1: Berkeley Street to Barry Street (next to the Alan Gilbert Building)
 - Mid September to mid-November 2022
 - Stage 2: Elizabeth Street to Berkeley Street (next to the Doherty Institute)
 - Mid-November 2022 to early 2023
- Each stage of works will involve
 - footpath closure, pedestrian gantry removal,
 - capping beam removal, progressive backfill

** Works are weather dependent. Timing is indicative and subject to change*

Capping beam and pedestrian gantry removal works – Grattan Street East

Berkeley to Barry streets proposed pedestrian diversion



Key:

- Proposed pedestrian diversion
- Current Pedestrian Route
- Footpath closure

Six Month Program

Grattan Street east



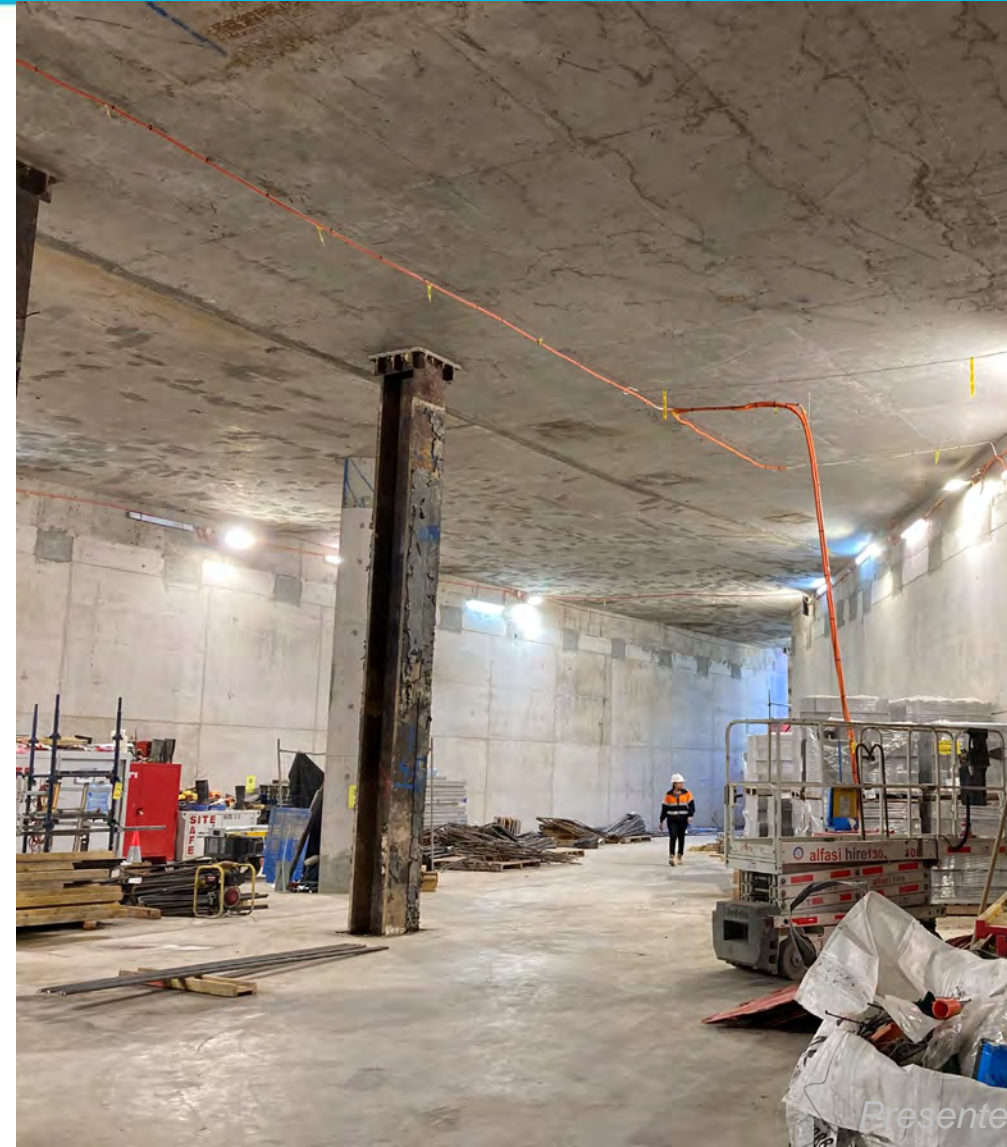
Activity	Sept 22	Oct 22	Nov 22	Dec 22	Jan 23	Feb 23
Station box permanent structure works						
Station box fit out (including Royal Parade underpass)						
Royal Parade entrance						
Retail area						
Northeast emergency exit						
Staged pile removal (intermittent)						
East TVS						
West TVS						
Chiller plant						
Goods lift						
Staged capping beam removal						
Service relocations (Grattan Street)						

Grattan Street West

Station Entrance Construction



- Permanent structure works will finish in October
- 17 of 29 of the temporary king posts have been removed
- Following permanent structure works, fit out works will commence within the west box and involve blockwork, mechanical, electrical and plumbing installation and secondary wall construction.

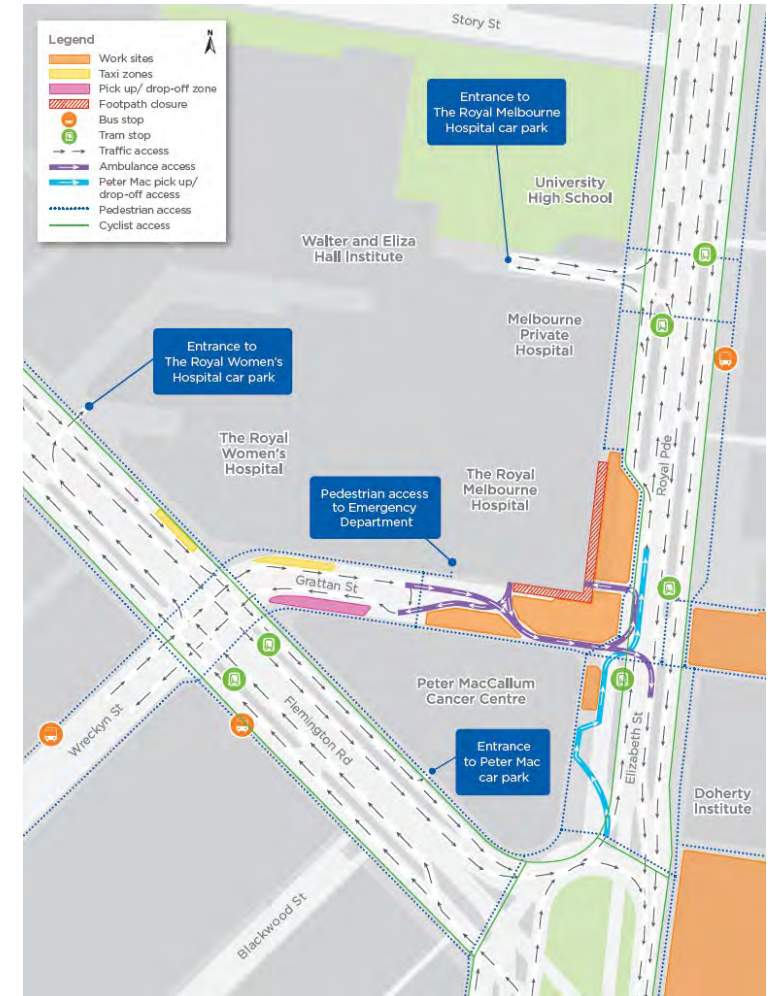


Surface Works

Current and upcoming works



- Lift installation is underway for the RMH and VCCC entrances
- Northern footpath closure planned is ongoing until late September
 - Pile de-heading is underway
 - Roof slab backfill
 - Ambulance bridge removal
 - Northern escalator ground slab excavation is complete
 - Northern escalator ground slab construction
- VCCC escalator precast, escalator and steel portal installation will commence in late September
 - The steel portal is oversized and will be delivered at night in mid October
 - Due to the portal's size, there will be changes for ambulance access from Flemington Road. Ambulance access will be maintained from Royal Parade

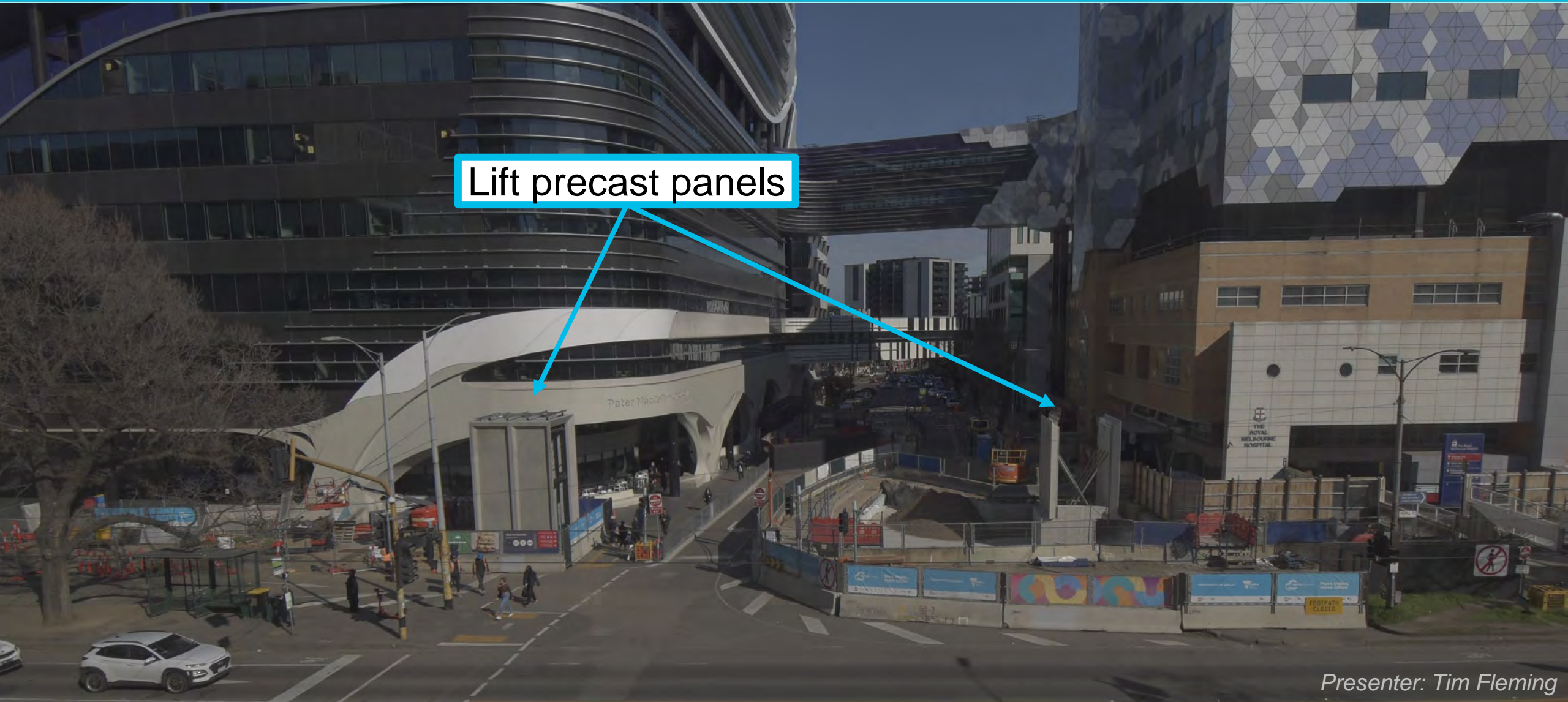


Pedestrian diversion
Presenter: Tim Fleming

Grattan Street West lift precast panels installation



Lift precast panels





Six-month program

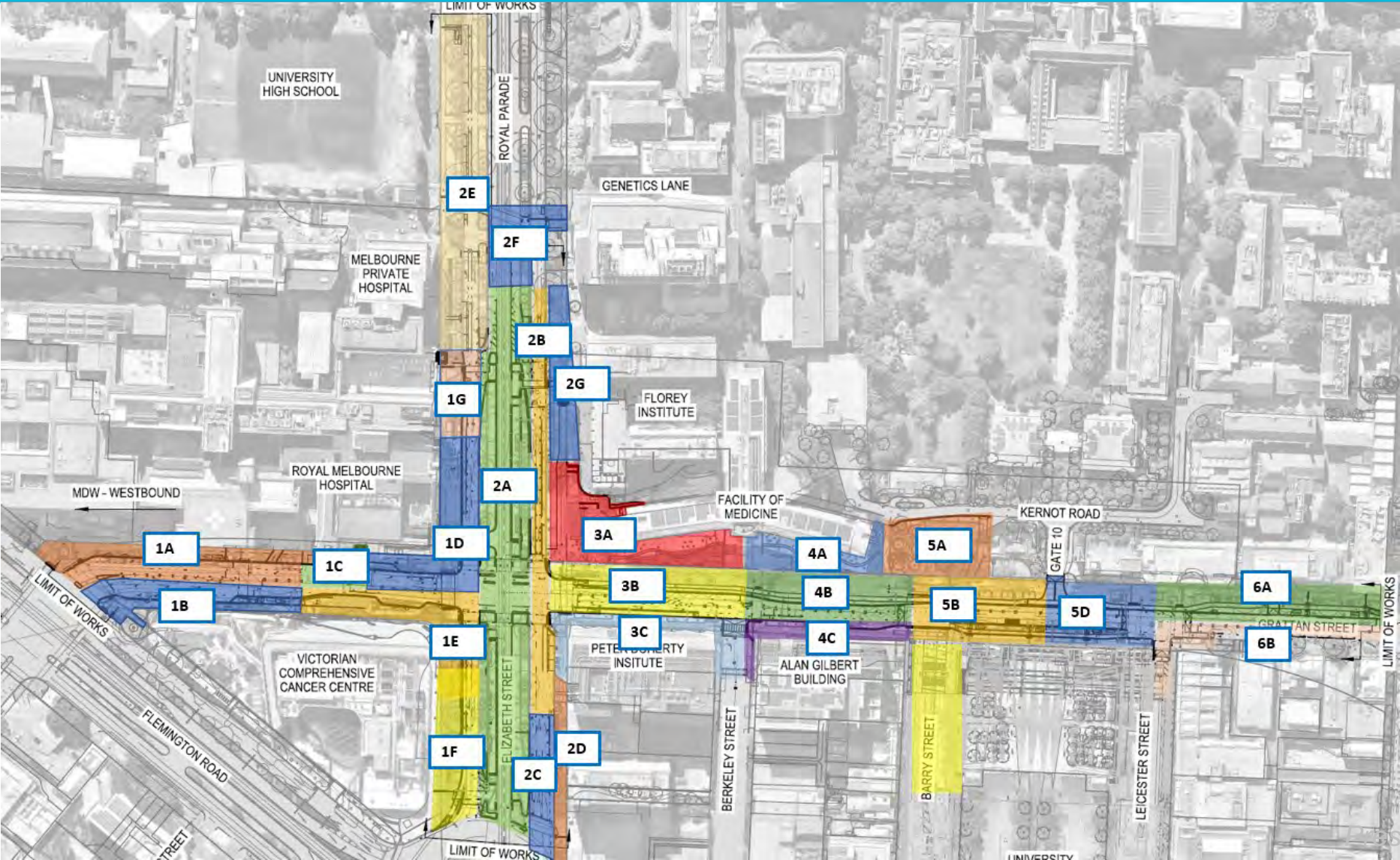
Activity	Sept 22	Oct 22	Nov 22	Dec 22	Jan 22	Feb 23
Permanent structure works						
Escalator works						
King post removal						
Surface installation						
Service installation and fit out works						
Pile top removal						
Backfill						



Reinstatement and Public Realm Works

Reinstatement and Public Realm Works

Staging

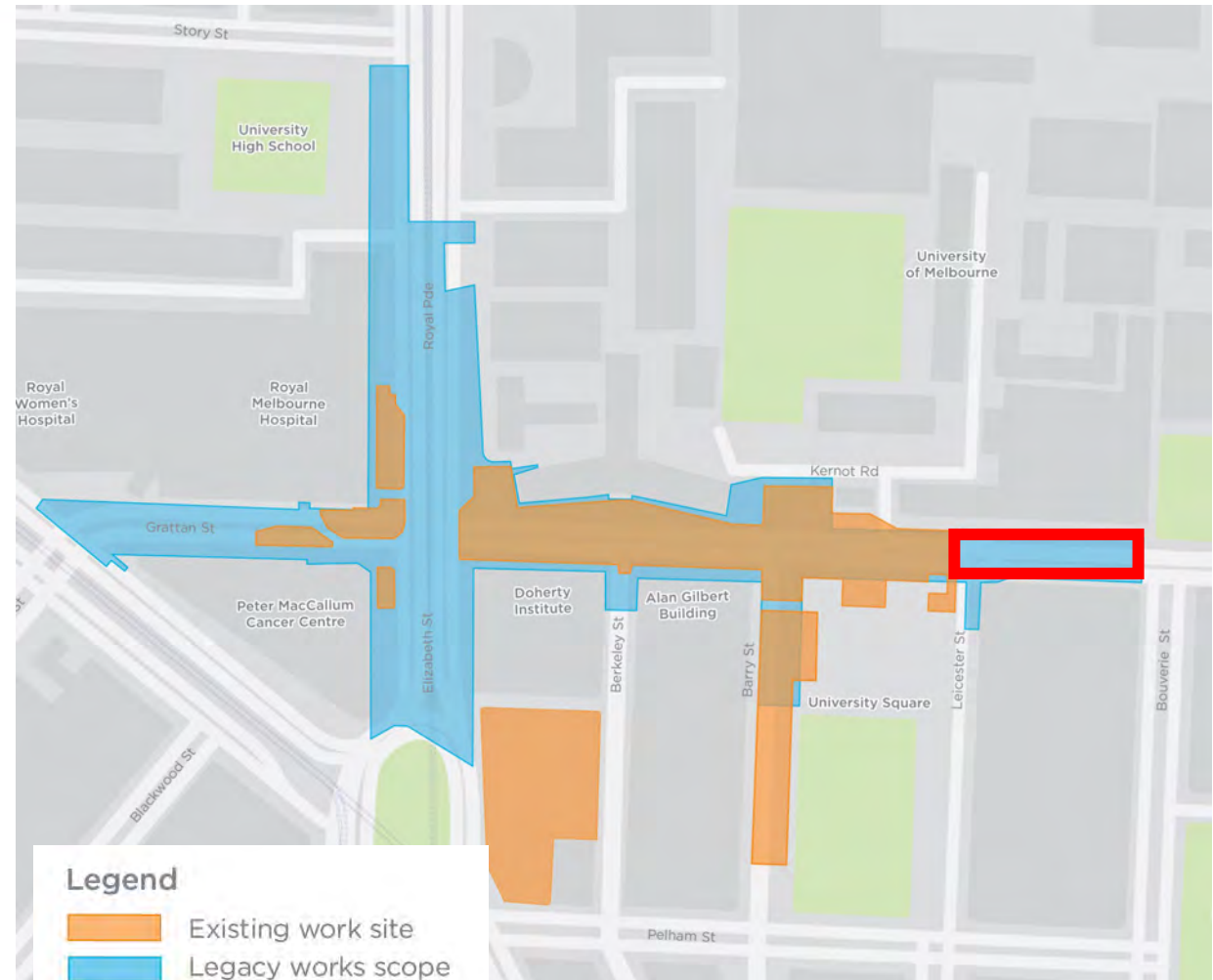


Stage 6A – Grattan Street between Leicester and Bouverie streets (north)

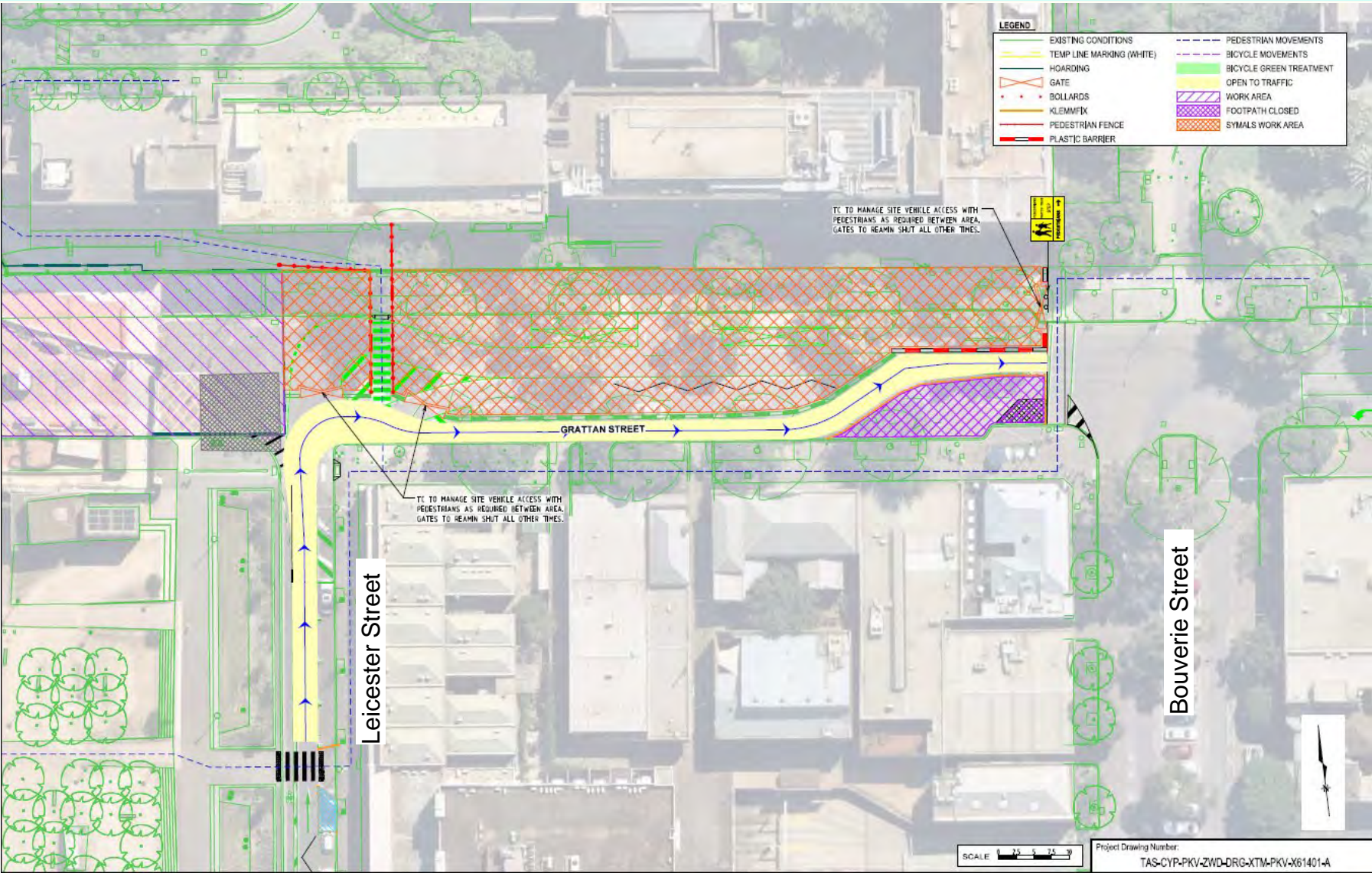
Reinstatement and public realm works



- Works will involve: stormwater drainage, footpaths, road surfaces, street furniture (including DoT and PTV infrastructure)
- Timing: 4 October 2022 for 4 - 5 months
- The work area will include:
 - Grattan Street northern footpath
 - Grattan Street eastbound lane
- Traffic and pedestrian changes:
 - Localised pedestrian diversions e.g.
 - North-south crossing will remain open (location may change)
 - Northern footpath will be closed
 - Eastbound traffic on Grattan Street will remain
- Following completion of these works, Stage 6B legacy works will commence (Grattan Street southern footpath)



Stage 6A – Traffic Plan

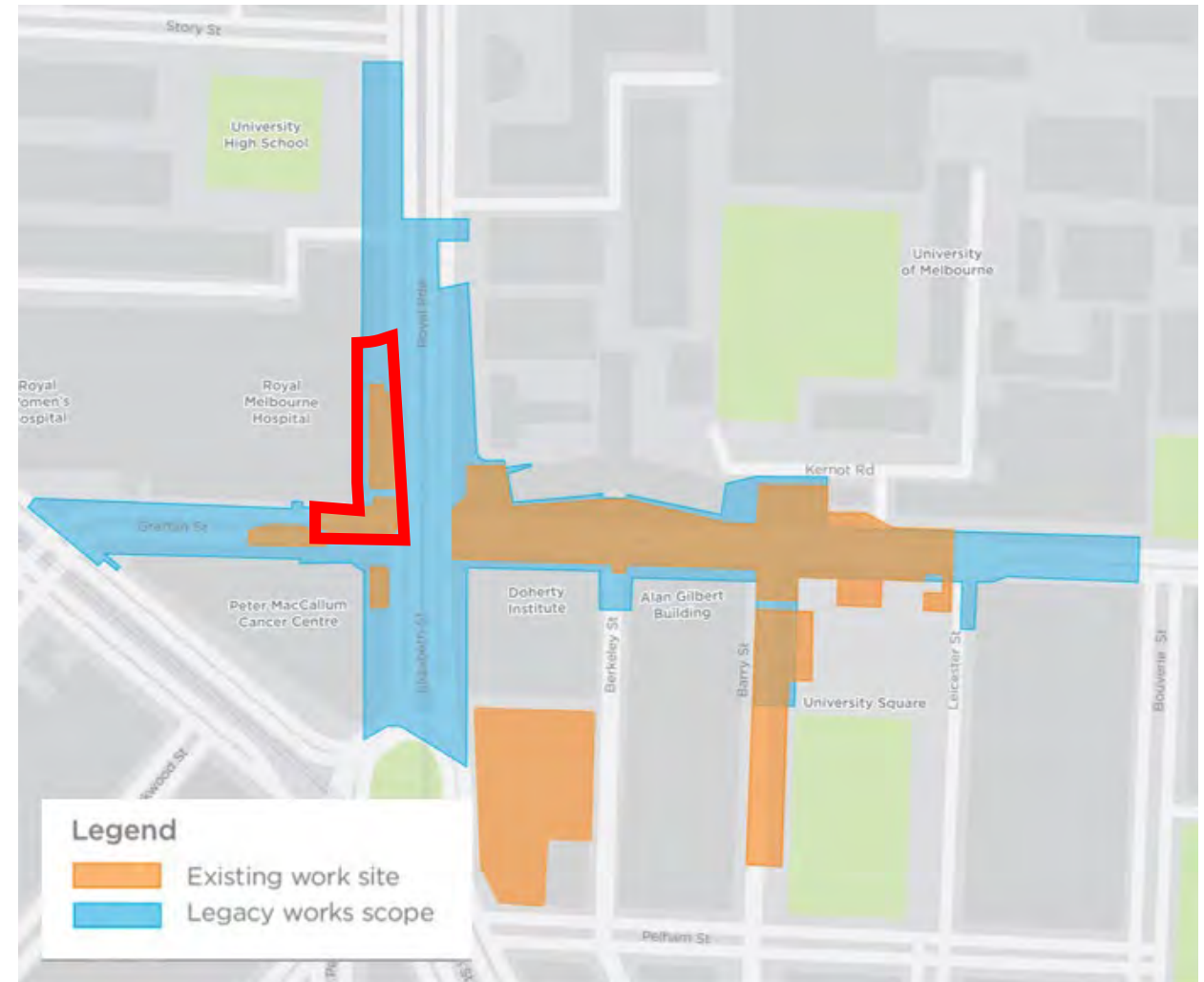


Stage 1D/1G – Grattan Street West extension

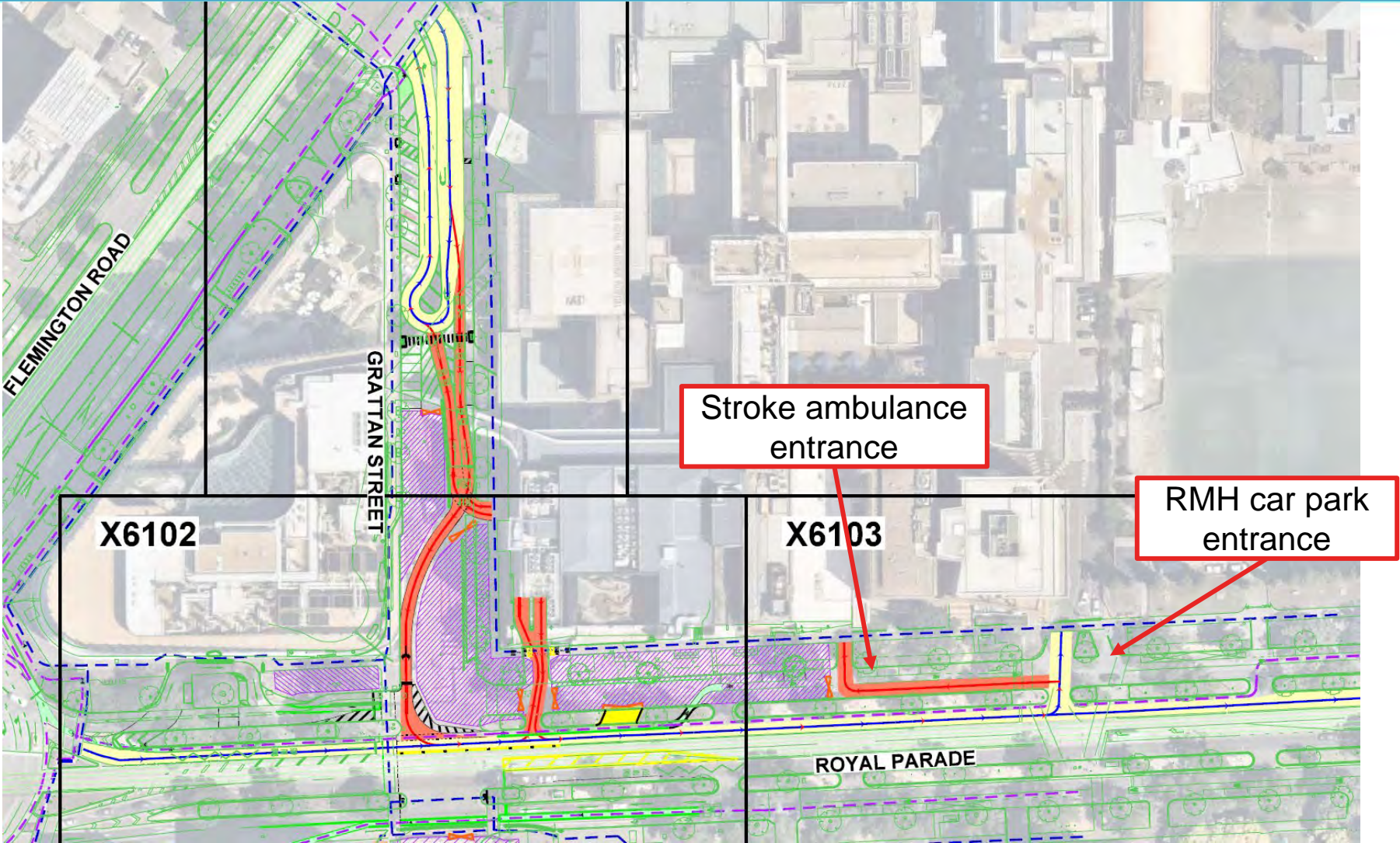
Reinstatement and public realm works



- Works will involve: stormwater drainage, footpaths, road surfaces, street furniture (including DoT and PTV infrastructure)
- Timing:
 - 1D (early October) – current site boundary
 - 1G (mid-to-late October) – extension to stroke ambulance driveway
- The work area will include:
 - Grattan Street west site
 - Royal Parade northbound service lane between Grattan Street and the RMH stroke ambulance driveway
 - Royal Parade footpath
- Traffic and pedestrian changes:
 - Localised pedestrian diversions
 - Closure of the Royal Parade northbound service lane. Vehicles and cyclists will be directed into the inner lane
 - Access to the RMH car park will be maintained from the Royal Parade northbound inner lane
 - Ambulance access will be maintained at all times with minor changes.



Stage 1D/1G – Traffic Plan



Six Month Program



Activity	Sep 2022	Oct 2022	Nov 2022	Dec 2022	Jan 2023	Feb 2023
1D – current Grattan Street West site						
1G – Royal Parade (The Royal Melbourne Hospital)						
6A – Grattan Street (between Leicester and Bouverie streets)						
1E – corner of Elizabeth & Grattan streets (Peter MacCallum Cancer Centre)						
1F – Elizabeth Street (Peter MacCallum Cancer Centre)						
2E – Royal Parade to Story Street (Melbourne Private Hospital)						
3C – Grattan Street south (Elizabeth to Berkeley streets)						
4C - Grattan Street south (Berkeley to Barry streets)						
6B – Grattan Street (between Leicester and Bouverie streets)						

Program shows reinstatement and public realm works outside the boundaries of the Grattan Street East and Grattan Street West sites (with the exception of stage 1D)

Timing is indicative and subject to change.

Environment Update

Tree Removal



- Trees P019 and P020 are scheduled for removal by the end of November to enable the construction of the new lane change. This is part of the approved Tree Removal and Retention Plan
- Minor pruning to take place on Royal Parade to enable the delivery of the steel structure for the entrance adjacent to RMH

Communications and Stakeholder Engagement Update

Notifications and Communications

- Parkville: August/September construction update (X August)
- Parkville: Capping beam removal works notification (X September)
- North Melbourne: August/September construction update (01 August)
- Parkville: weekly update and four-week look ahead to key stakeholders (ongoing)

Door knocks, meetings, briefings and events

- North Melbourne: fortnightly meetings with City of Melbourne
- Parkville site tours
- Parkville: fortnightly meetings with Peter MacCallum Cancer Centre, Melbourne Health, University of Melbourne, City of Melbourne

Community issues/requirements and key stakeholder engagement

- Parkville: reinstatement and public realm works (pedestrian movements, building access)
- Parkville: pedestrian movements around the current Grattan Street east and west sites

Upcoming engagement

- Parkville: reinstatement and public realm works
- Arden: Discussion with Barwise Street traders regarding staging



Creative Program Update

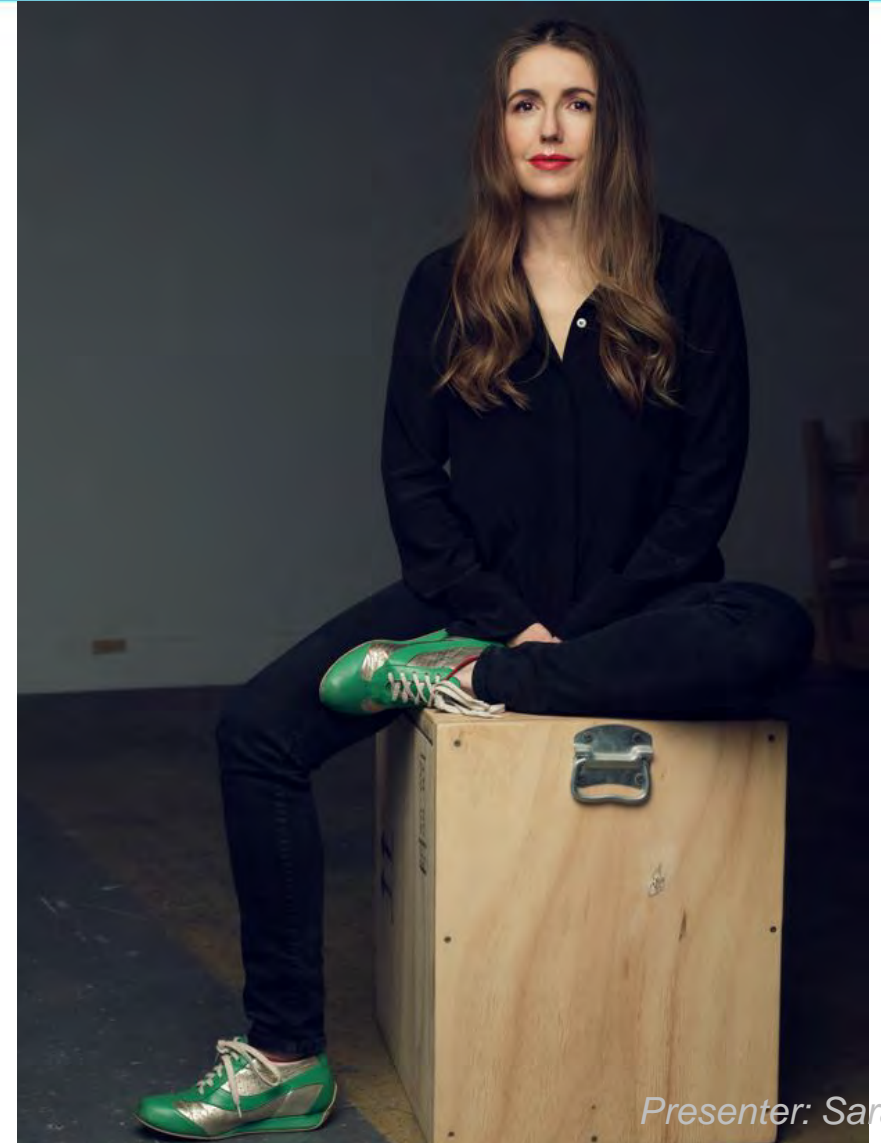
Presenter: Sarah Robins

Parkville Station artist: Patricia Piccinini



Internationally recognised artist Patricia Piccinini was born in Sierra Leone and lives in Melbourne.

Her work encompasses sculpture, photography, video and drawing, and her practice examines the increasingly nebulous boundary between the artificial and the natural as it appears in contemporary culture and ideas. Her surreal drawings, hybrid animals and vehicular creatures question the way contemporary technology and culture changes our understanding of what it means to be human and wonders at our relationships with – and responsibilities towards – that which we create.



Presenter: Sarah Robins



Arden Station artist: Abdul Abdullah



Abdul Abdullah is a seventh-generation Muslim Australian with Malay/Indonesian and convict/settler Australian heritage. He grew up in Perth and lives in Sydney.

His multi-disciplinary practice is motivated by a longstanding concern about the complex feelings of displacement and alienation associated with histories of diaspora and migration. Providing a voice to these difficult topics, he creates carefully crafted political commentaries that speak of the 'Other' and the experiences of marginalised communities.



Presenter: Sarah Robins

Arden Station artist: Abdul Abdullah



<https://youtu>

Presenter: Sarah Robins

Other Business

- Next meeting: Friday 11 November