



Arden and Parkville Community Reference Group

Meeting 24

Friday 10 June 2022



Arden and Parkville CRG Agenda

Friday 10 June 2022



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

Minutes and Actions

Progress Update: Rail and Tunnel Fit Out

North Melbourne Electrical Substation



- HV cable installation between the North Melbourne Electrical Substation and Arden Station
- Utilities (water) connections to Arden Station
- Final electrical fit out (internal and external)
- Testing and commissioning commencement



Tunnel Mechanical, Electrical and Plumbing (MEP)



- Electrical installation in the west (HV, comms)
- Mechanical installation in the east (ladders, pipework)
- HV and traction room deliveries fit out at Anzac Station
- Cross passage fit out has commenced (west)



PKV-CBDN, WB



ARD-PKV, EB



Domain Station

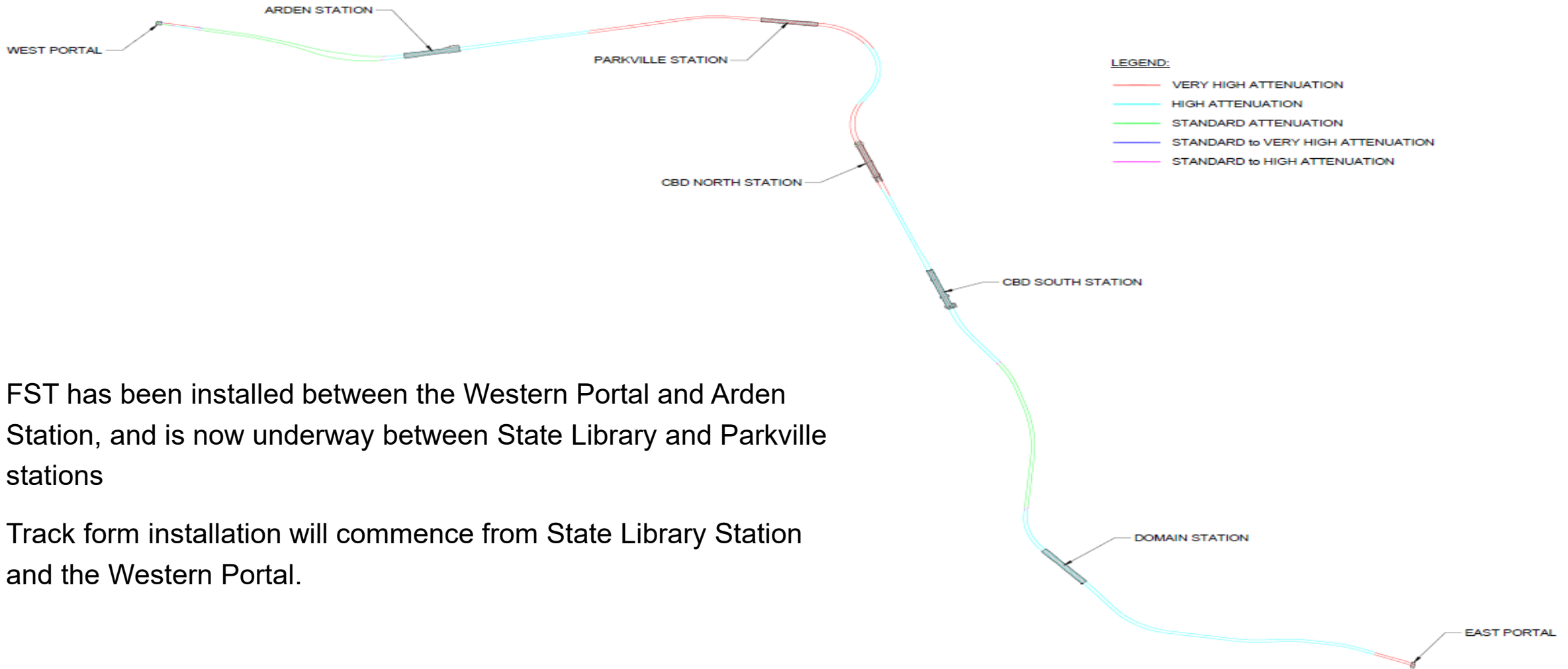


Rail and track form installation occurs in three stages:

- Floating slab track (FST)
- Track form
 - Three different types:
 - Standard attenuation
 - High attenuation
 - Very high attenuation (the floating slab track section)
- Rail track

Rail and Track Form Installation

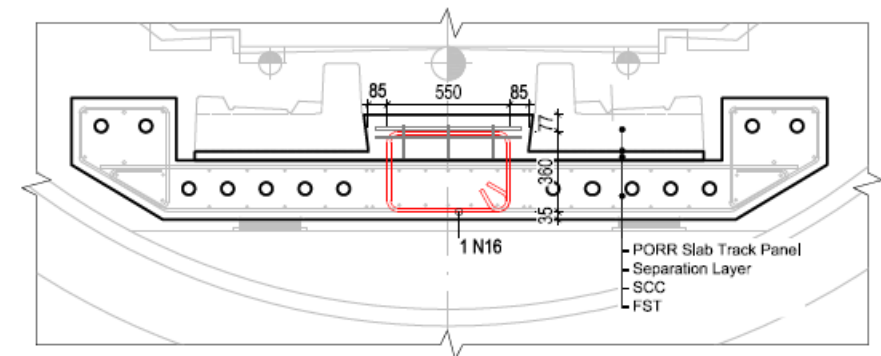
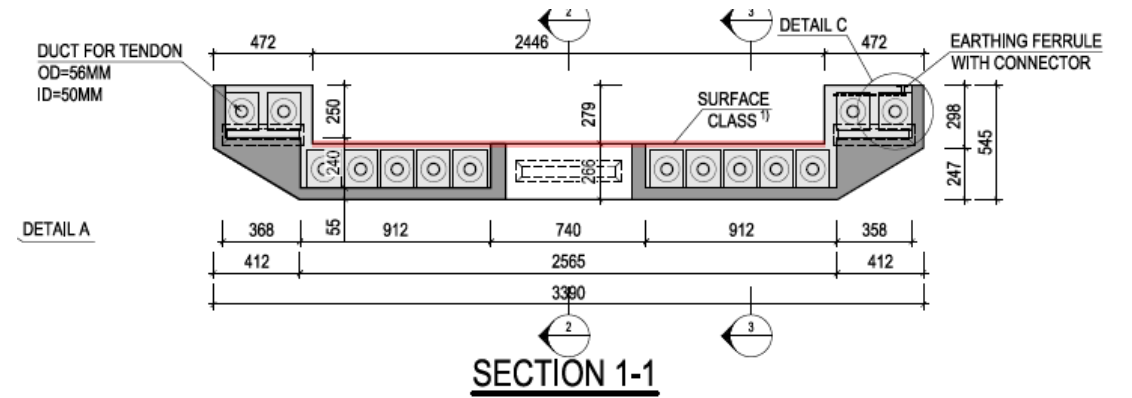
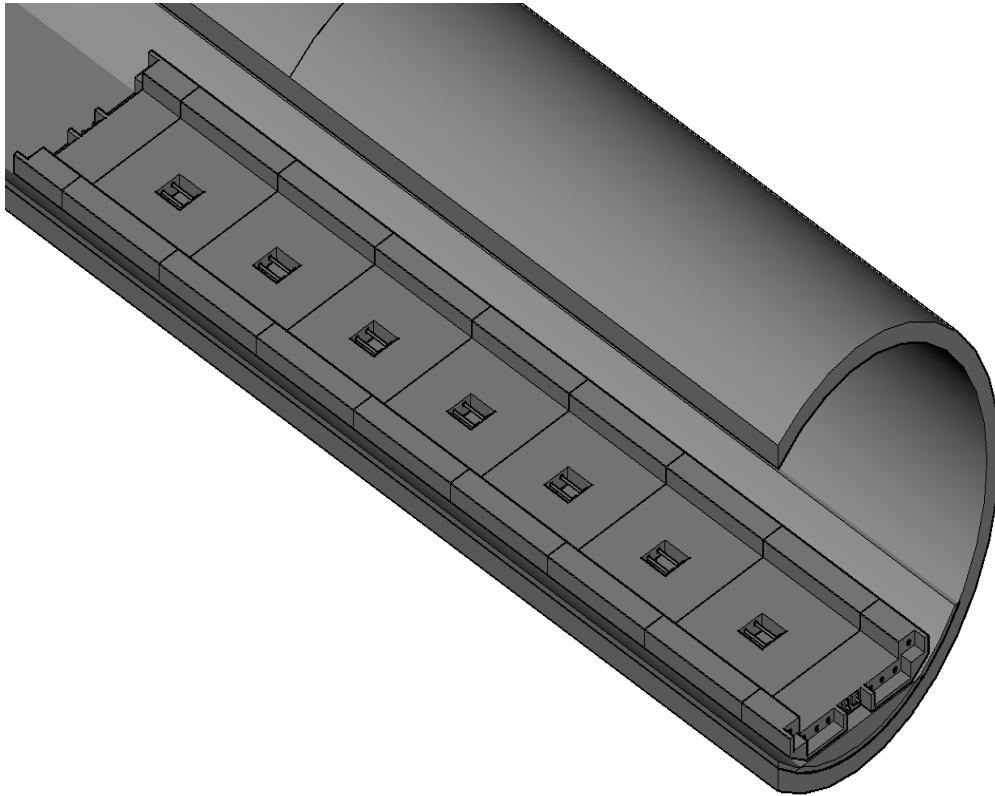
Floating slab track (FST)



- FST has been installed between the Western Portal and Arden Station, and is now underway between State Library and Parkville stations
- Track form installation will commence from State Library Station and the Western Portal.

Rail and Track Form Installation

Floating slab track (FST)



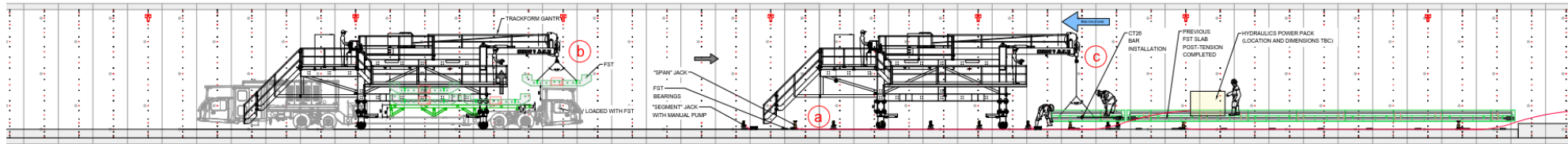
CROSS-SECTION
SCALE 1:25

Rail and Track Form Installation

FST delivery and installation

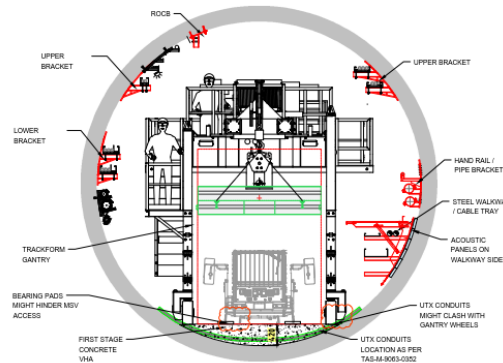


ELEVATION - INSTALLATION OF FST
SCALE - 1:200

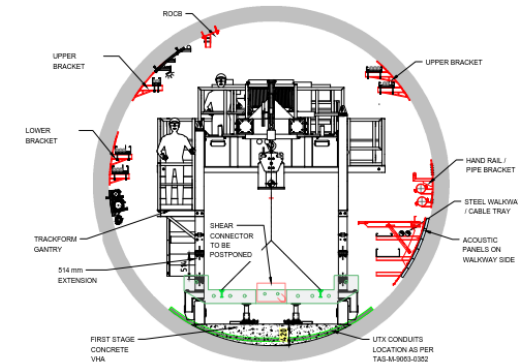


ELEVATION - INSTALLATION OF FST
SCALE - 1:200

- Delivered via Arden Station or the Western Portal or Eastern Portal
- Multi-service vehicle (MSV) deliveries through the completed tunnel
- Track gantries collect and place



SECTION - STEP 2: FST PICK-UP FROM MSV
SCALE - 1:100



SECTION - STEP 3: FST INSTALLATION INTO SUPPORT JACKS
SCALE - 1:100

Rail and Track Form Installation

FST trial installation



Presenter: Malcolm Tinkler

Rail and Track Form Installation

FST installation



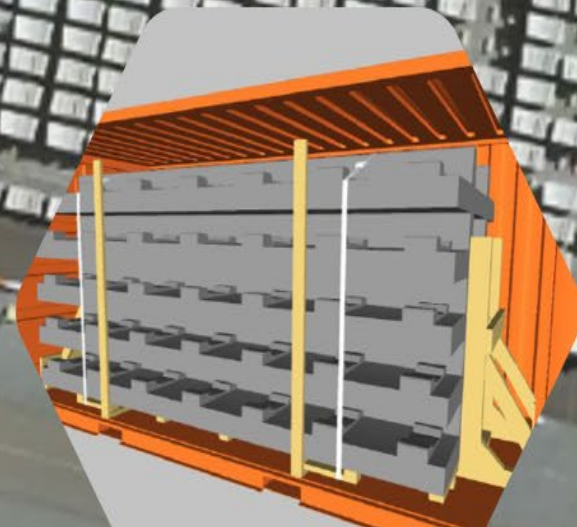
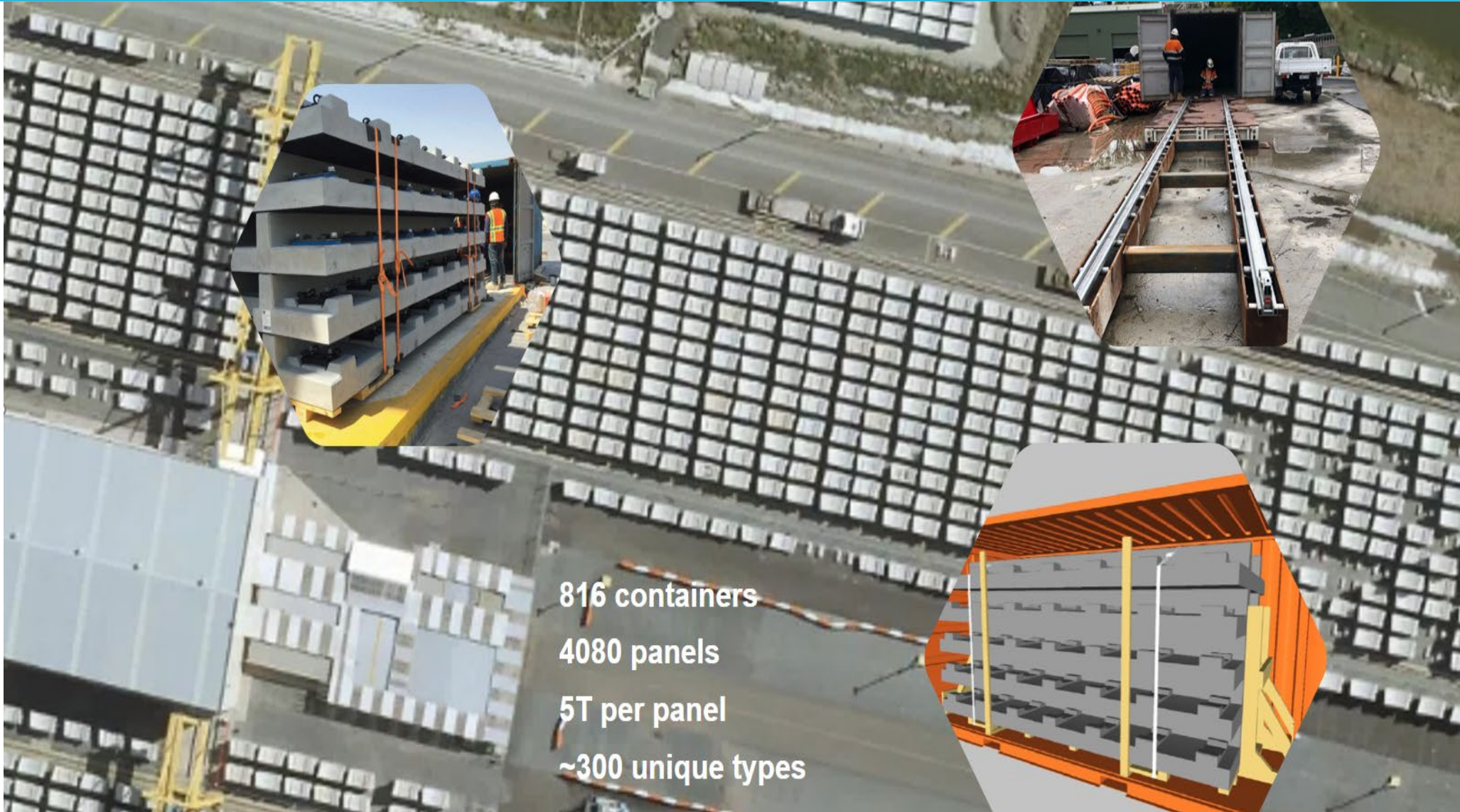
Rail and Track Form Installation

FST installation



Rail and Track Form Installation

Storage of track form



816 containers
4080 panels
5T per panel
~300 unique types

Rail and Track Form Installation

Placement of track form



Rail and Track Form Installation

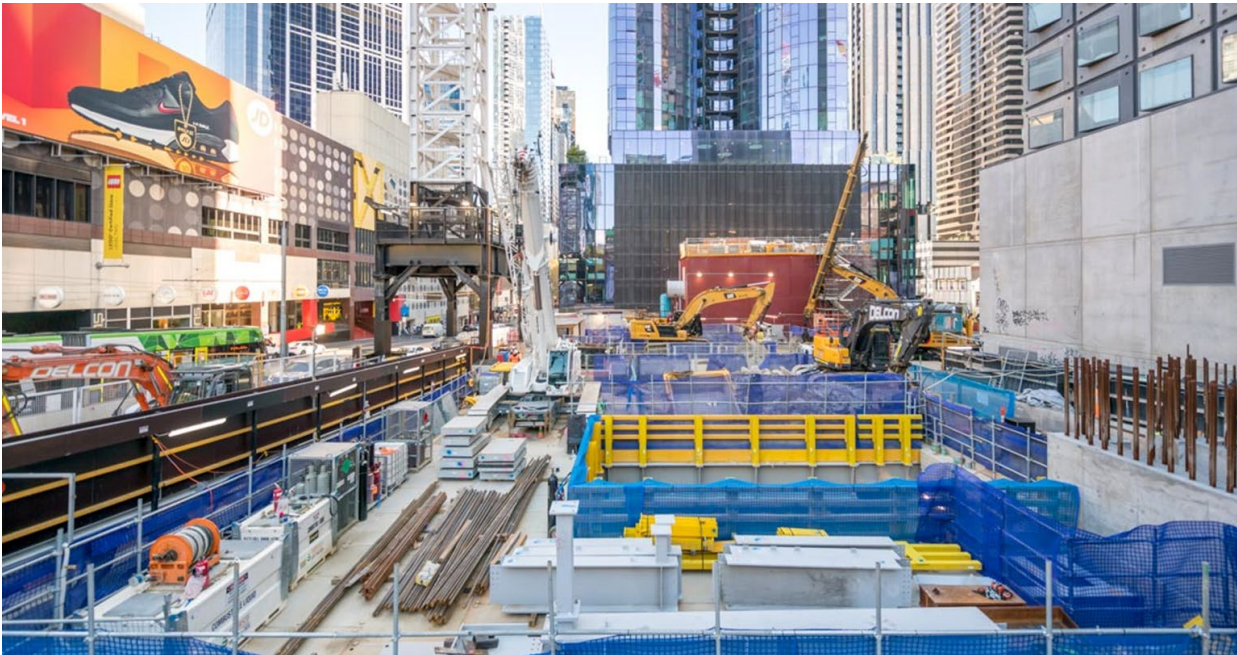
Formwork and 2nd stage concrete





Construction Update: Project-wide

State Library Station



- Excavation is continuing at the La Trobe Street site
- Shaft construction is also continuing at the Franklin, A'Beckett and Little La Trobe sites.

Town Hall Station



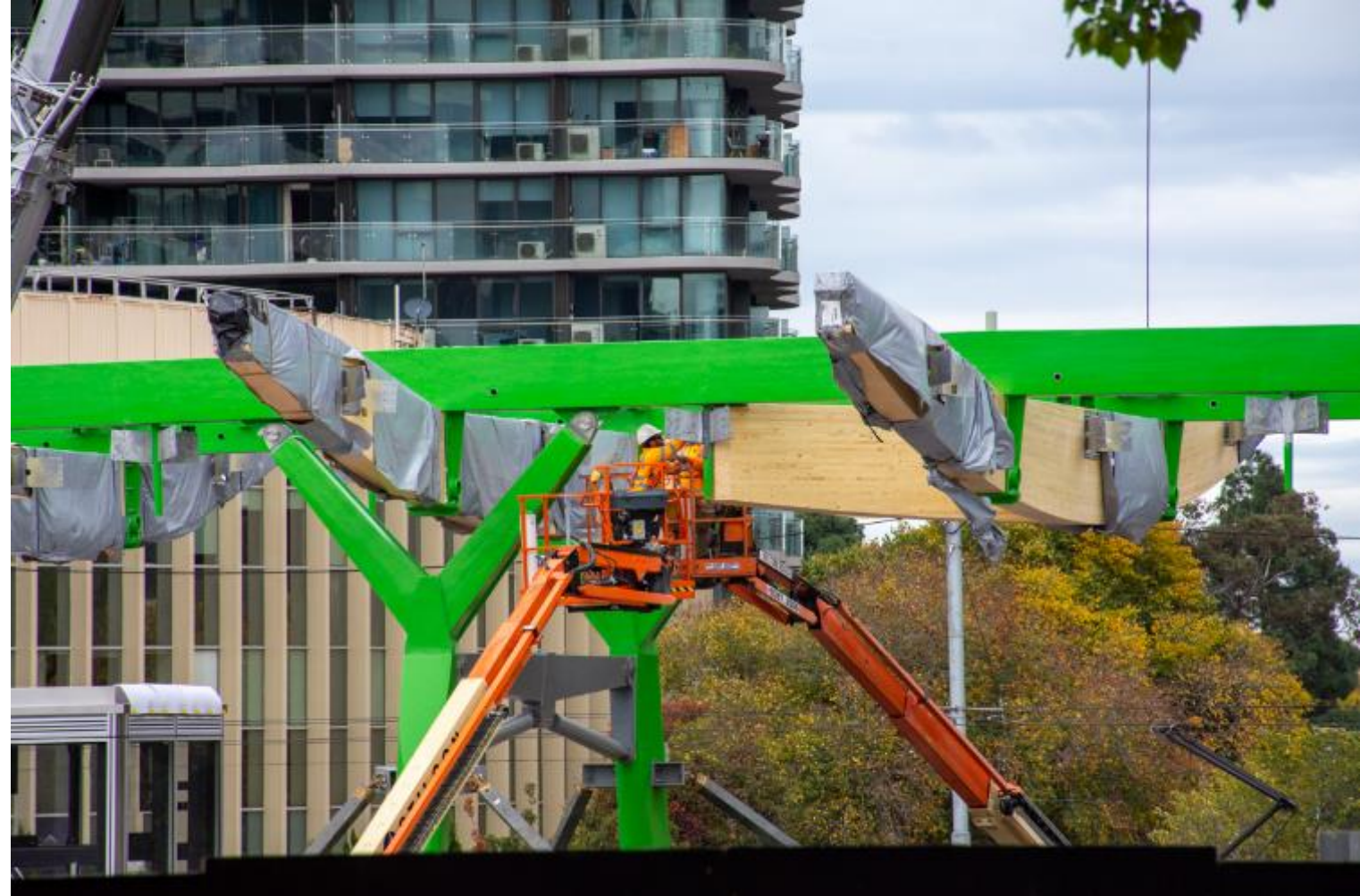
- Excavation at Flinders Quarter is due for completion in July and piles have been demolished in Shaft A. This access shaft can now be incorporated into the remainder of the site
- The first of two tower cranes will commence installation in mid-June on Swanston Street. The tower cranes will be used to remove the City Square site acoustic shed and assist with station build out
- Works to reopen the Flinders Street tram stop northern crossing are occurring this week
- Lining and structures works are continuing within the station cavern, rail tunnels and adits.



Anzac Station



- Tram interchange on St Kilda Road is progressing with timber cross sections now being installed
- Platform construction continues underground with precast panels installed from south to north
- Fitout of the back-of-house at concourse level has progressed with high voltage equipment installation commenced to provide power to the future operating trains
- Tunnel ventilation equipment is also being delivered and installed
- St Kilda Road surface is being stripped and backfilled with in preparation for the final realignment of St Kilda Road later this year.



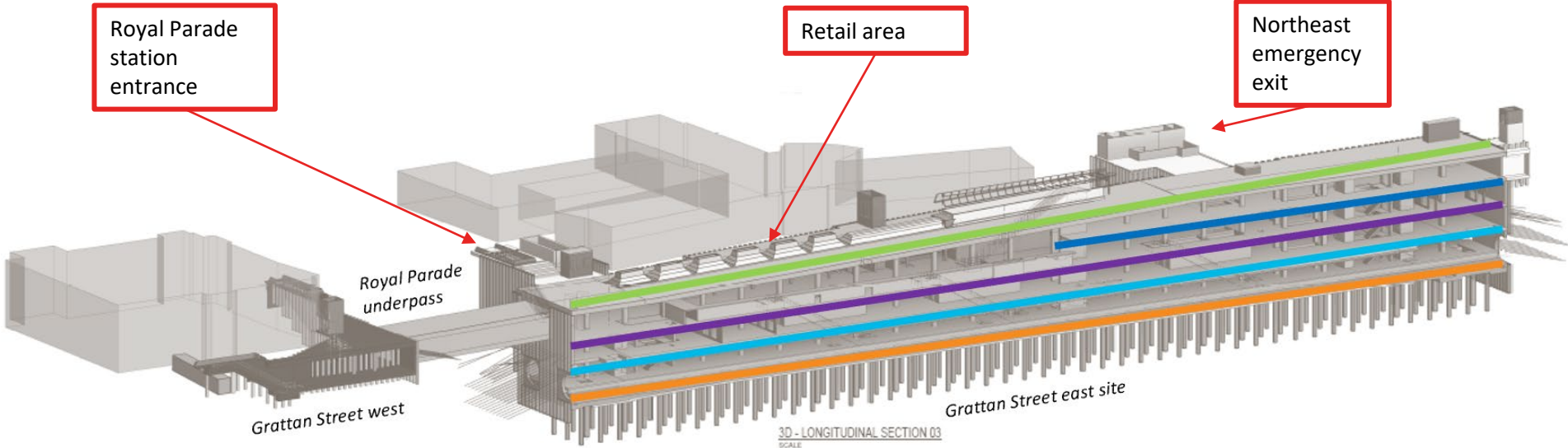
Tram interchange canopy progress

Construction Update: Grattan Street East - Parkville

Parkville Precinct



Permanent Structure Works



- Roof level
- B1 level
- B2 level
- B3 level
- B4 level

Station Construction and Fit Out Works



- Capping beam and pile removal works are ongoing
- Permanent structure activities are ongoing
- Aboveground works include backfill and deck removal
- Fit out works are ongoing and involve the installation of blockwork walls and mechanical, electrical and plumbing (MEP) systems
- Escalator and lift installation has commenced.



Platform level works

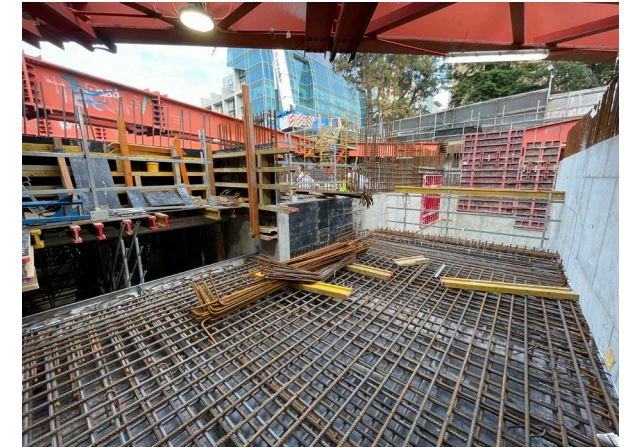
Secondary Boxes

Retail area and northeast emergency area



Northeast emergency exit area

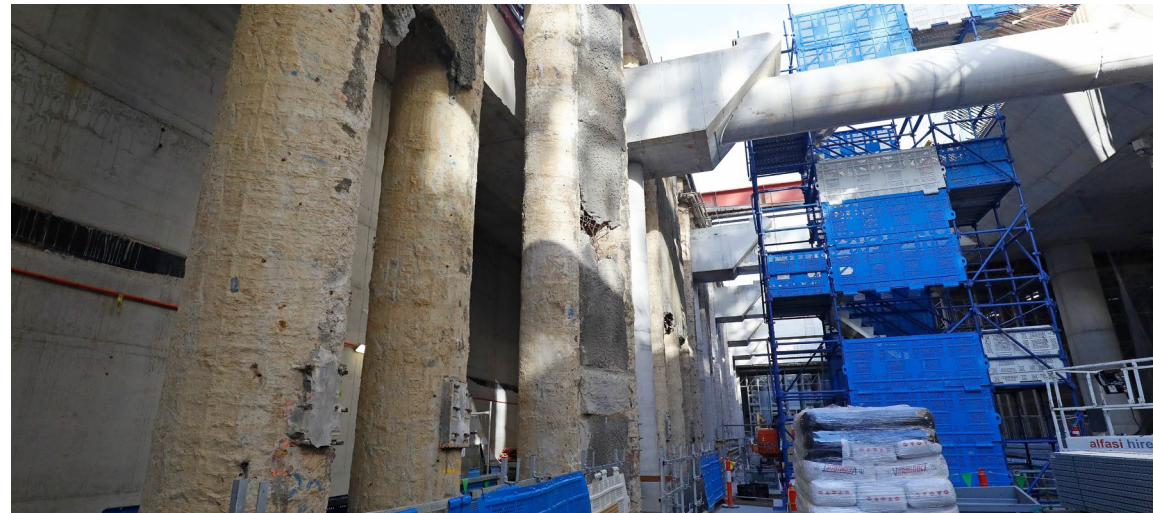
- Roof slab has been poured
- Strut removal is ongoing



Northeast emergency exit area works

Retail area

- Capping beam removal is ongoing
- Staged pile removal is ongoing.



Pile removal works between the retail area and main station box

Royal Parade Entrance



- Roof slab construction is ongoing
- Struts will be progressively removed to pour the roof slab
- Escalator footing construction works are scheduled to commence from 20 June. Works will include temporary footpath diversion, excavation, structural steel installation and escalator installation
- Legacy utilities and landscaping works will follow.



Roof slab construction for the Royal Parade entrance

Chiller plant

- Structural steel is currently being installed out of hours

Western TVS

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

Eastern TVS

- Waterproofing and lining wall works are ongoing within the Grattan Street east site
- Hoarding removal works within the University Square Car Park will commence from Wednesday 8 June on levels B3 to B5. Levels B1 and B2 will remain the same.



Chiller plant structural steel

Gantry Crane Removal



- Gantry cranes 2 and 3 have been removed
- Gantry crane 1 will be removed in late June
- For each crane this involves:
 - disconnecting motors and electrics
 - attaching temporary braces to the gantry crane legs
 - using a large mobile crane to lower pieces of the crane to ground level
 - removing gantry crane legs and temporary braces (mobile crane)
 - additional dismantling at ground level
 - removal from site (some over-sized loads required at night).



Royal Parade underpass



- Base slab is complete
- Two (out of six) wall concrete pours is complete
- Three ceiling concrete pours to be completed.



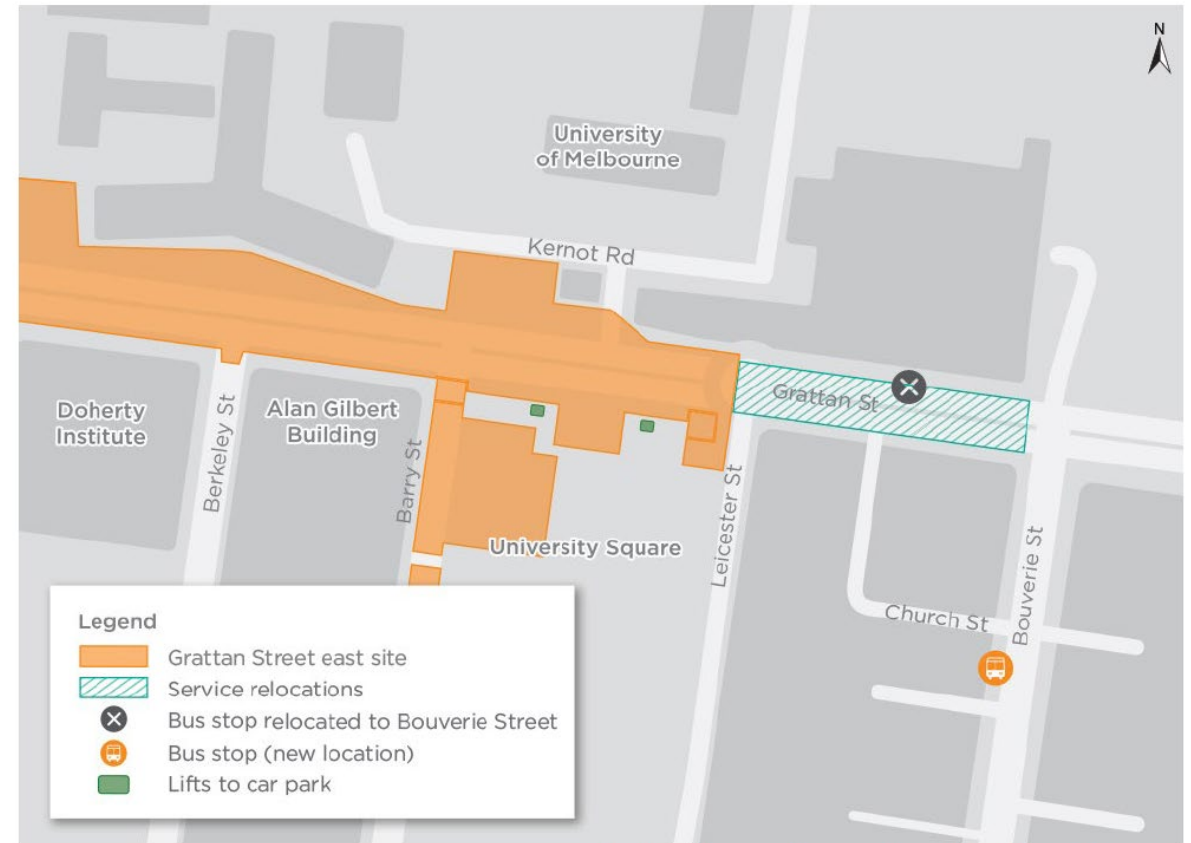
Royal Parade underpass base slab

Service Relocations

Grattan Street between Leicester and Bouverie streets



- HV service relocations are underway on Grattan Street between Leicester and Bouverie Street. Works will continue until early July. Following these works, service relocation works will commence through the Grattan Street east site
- Gas relocations adjacent to the University of Melbourne's Engineering Building undercroft and the future goods lift are currently programmed to commence in July.



Indicative only and subject to change

Backfill Works Underway



Main Entrance Works Underway

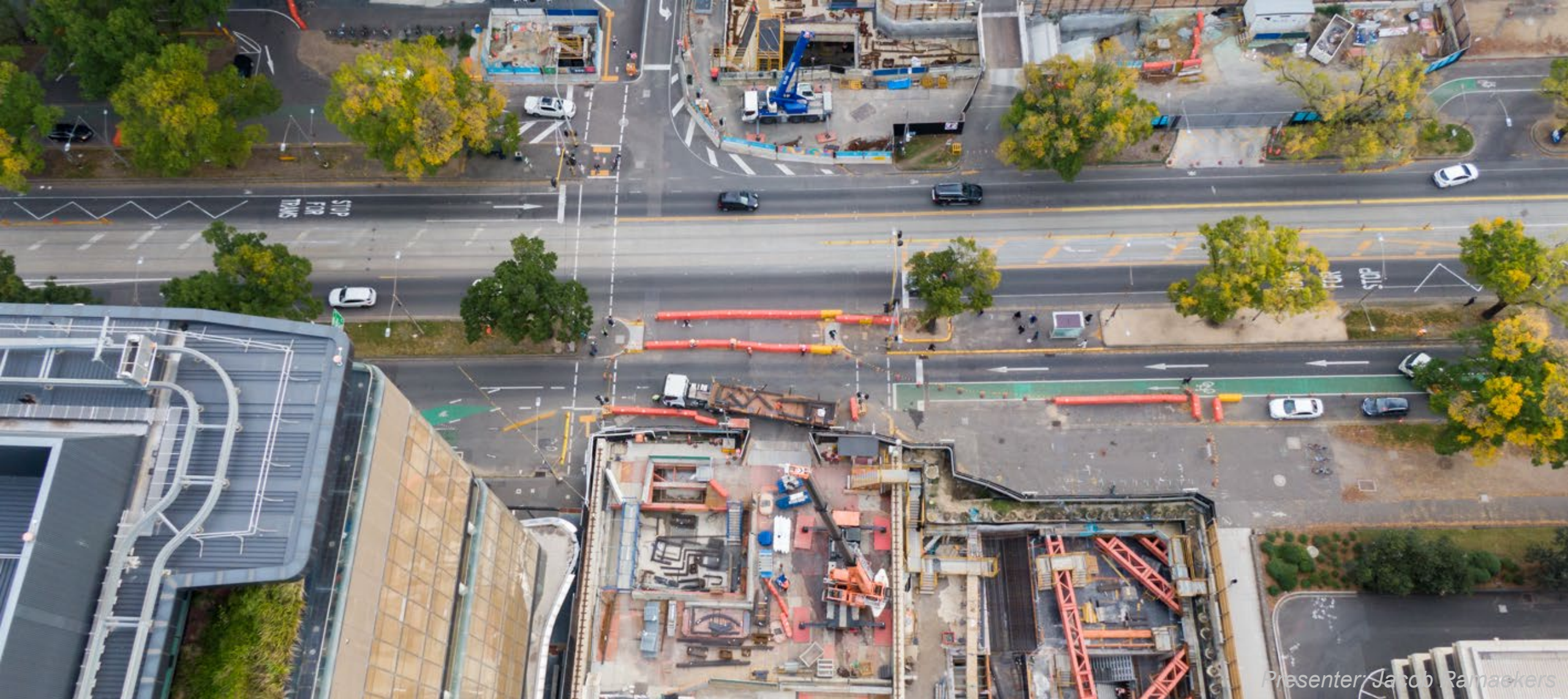


View Towards the Grattan Street West Station Entrances



Presenter: Jacob Ramaekers

Royal Parade Works



Six Month Program

Grattan Street east



Activity	Jun	Jul	Aug	Sept	Oct	Nov
Station box permanent structure works						
Station box fit out						
Royal Parade entrance						
Retail area						
Northeast emergency exit						
Staged pile removal (intermittent)						
East TVS						
West TVS						
Chiller plant						
Goods lift						
Royal Parade underpass						
Gantry crane removal						
Staged capping beam removal						
Service relocations (Grattan Street)						

Indicative only and subject to change

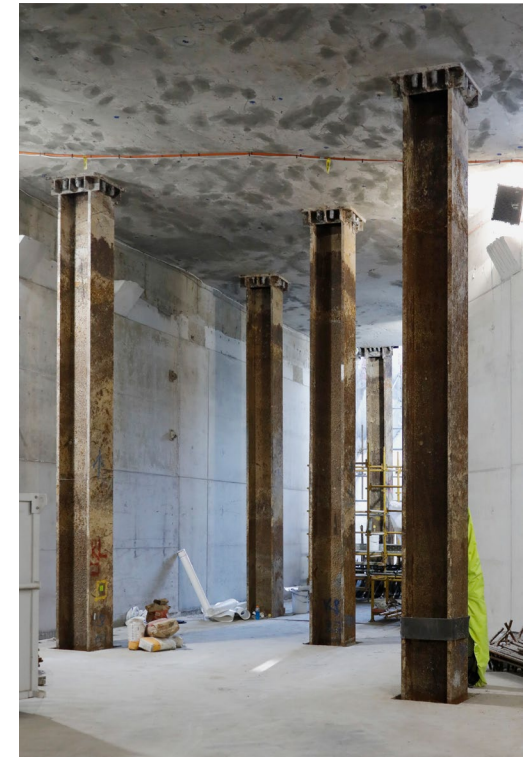
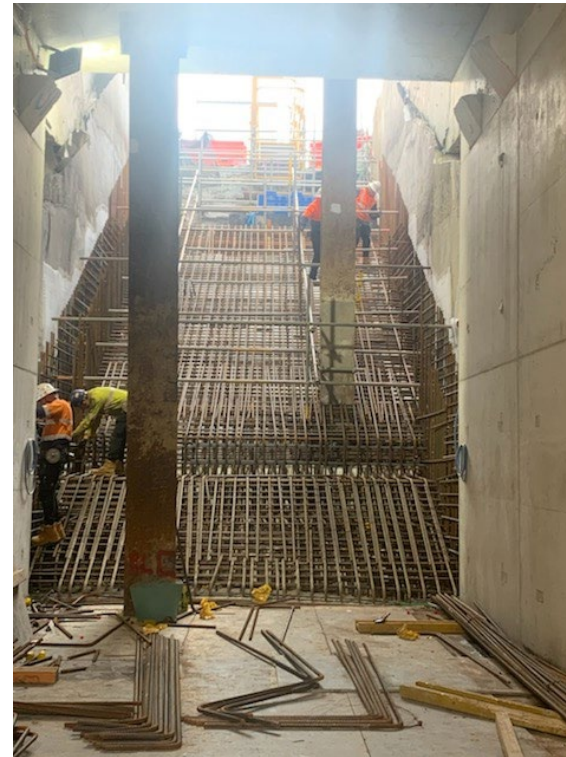
Presenter: Jacob Ramaekers

Construction Update: Grattan Street West - Parkville

Station Entrance Construction



- Permanent structure works are ongoing
 - main structure is complete with the exception of the escalator inclines
 - roof penetration to be closed prior to pile deheading and escalator incline excavation (refer to next slide)
- 19 of 29 temporary king posts have been removed
- Following permanent structure works, fit out works will commence within the west box and involve mechanical, electrical and plumbing installation and secondary wall construction.



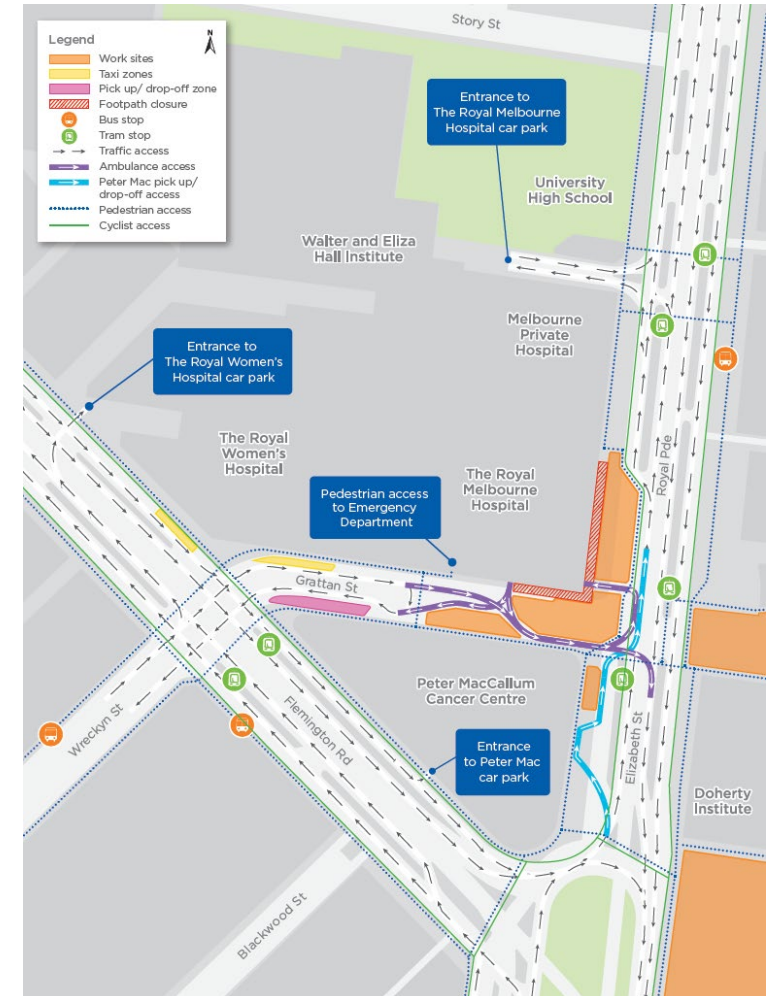
Grattan Street west station entrance

Surface Works

Upcoming works



- Future works at surface level will include pile top removal, structure works and backfilling activities
- Southern escalator footing excavation is underway
- Pile top removal works will commence from late June. To facilitate these works, the Grattan Street/Royal Parade footpath will be closed, adjacent to The Royal Melbourne Hospital. Pedestrians will be diverted
- Following pile top removal works, northern escalator footing excavation will commence
- Precast and steel canopy surface structure installation (lift and escalators) post permanent structure.



Pedestrian diversion

Presenter: Jacob Ramaekers

Program

Grattan Street west



Six-month program

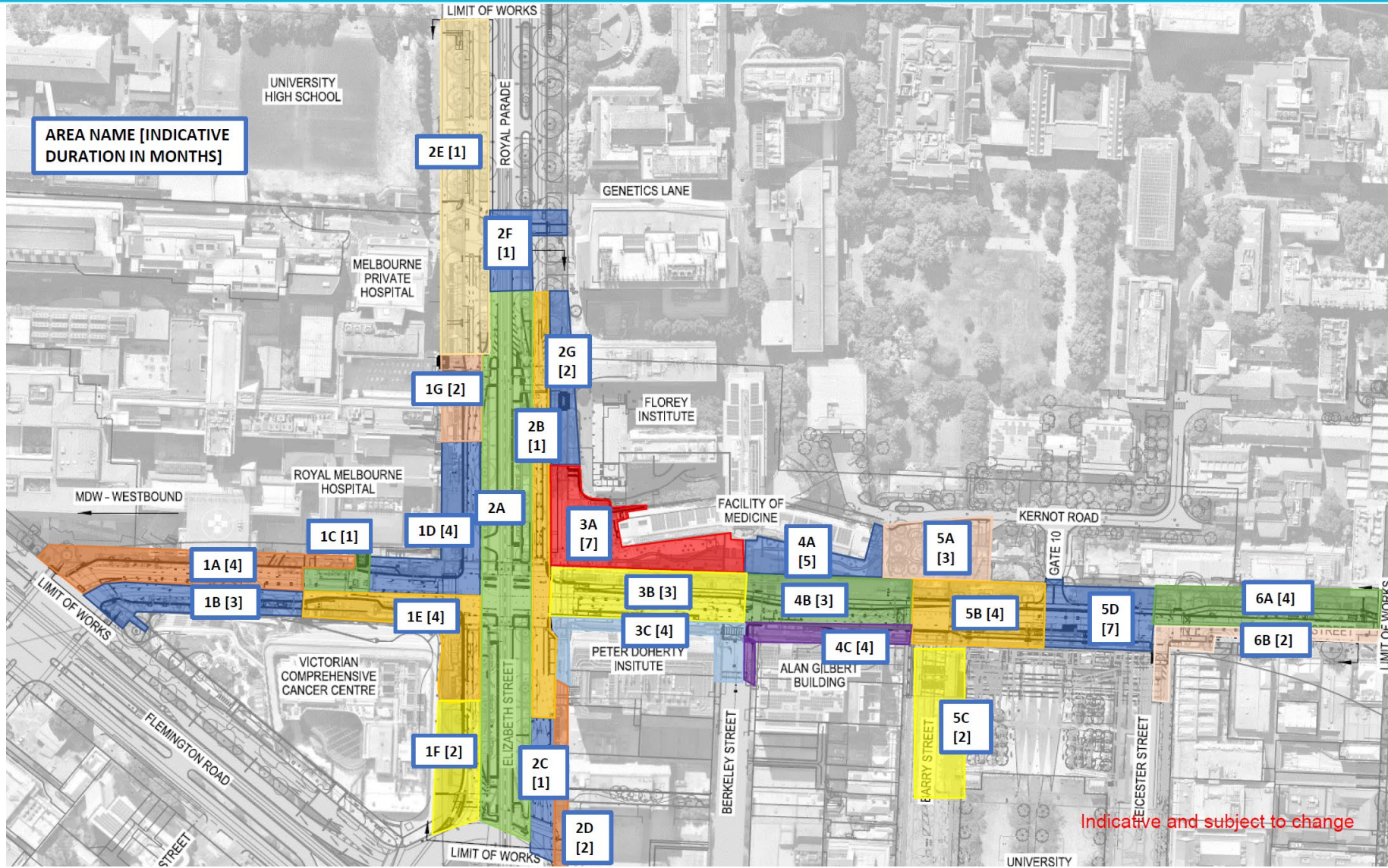
Activity	Jun	July	Aug	Sept	Oct	Nov
Permanent structure works						
Escalator works						
King post removal						
Surface installation						
Service installation and fit out works						
Pile top removal						
Backfill						

Indicative only and subject to change

Construction Update: Reinstatement and Public Realm Works - Parkville

Reinstatement and Public Realm Works

Staging



Reinstatement and Public Realm Works

Six-month program



Activity	Jun 22	July 22	Aug 22	Sept 22	Oct 22	Nov 22
1D – current Grattan Street west site						
1E – corner of Elizabeth & Grattan streets (Peter MacCallum Cancer Centre)						
1F – Elizabeth Street (Peter MacCallum Cancer Centre)						
1G – Royal Parade (The Royal Melbourne Hospital)						
2E – Royal Parade to Story Street (Melbourne Private Hospital)						
2G – Royal Parade (Florey Institute)						
3A – corner of Grattan Street and Royal Parade (UoM Medical Building)						
3B – current Grattan Street east site						
3C – Doherty Institute gantry						
4A – UoM Medical Building east gantry						
4B – current Grattan Street east site						
4C - Alan Gilbert gantry						
5A – northeast emergency exit area (Kernot Road)						
5B – current Grattan Street east site						
5D – current Grattan Street east site (Gate 10)						
6A – Grattan Street (between Leicester and Bouverie streets)						

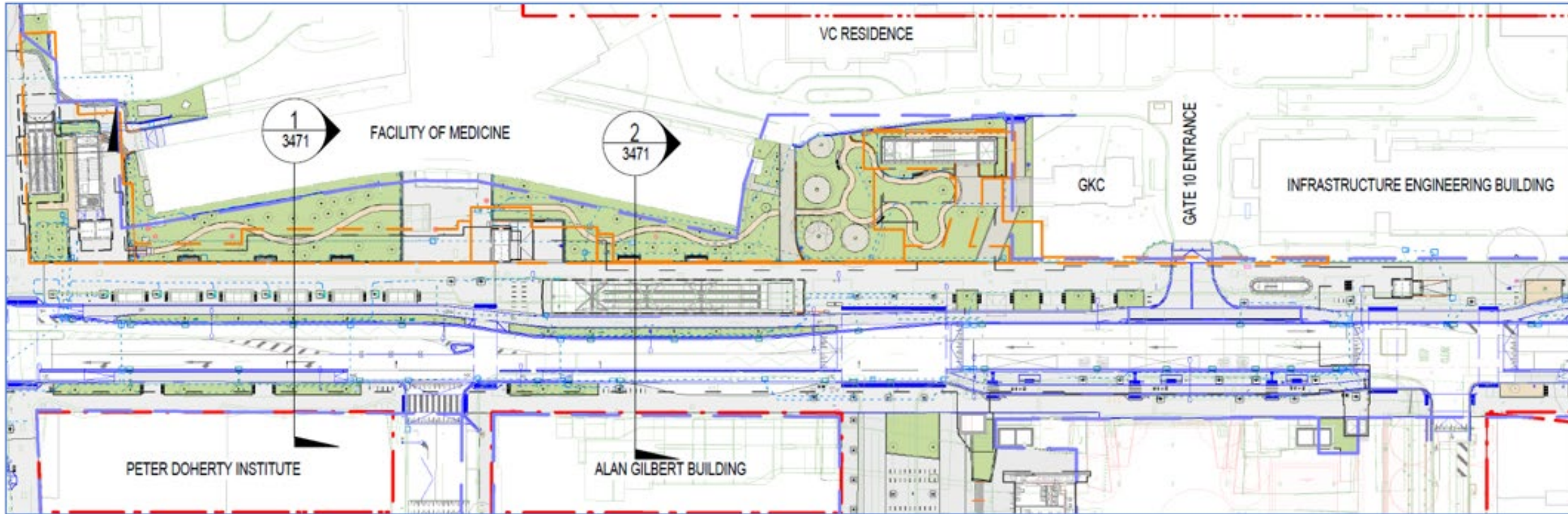
Indicative only and subject to change

Not included: stages 1A, 1C, 1B, 2A, 2B, 2C, 2D, 5C, 6B as these stages commence after November 2022

Presenter: Jacob Ramaekers

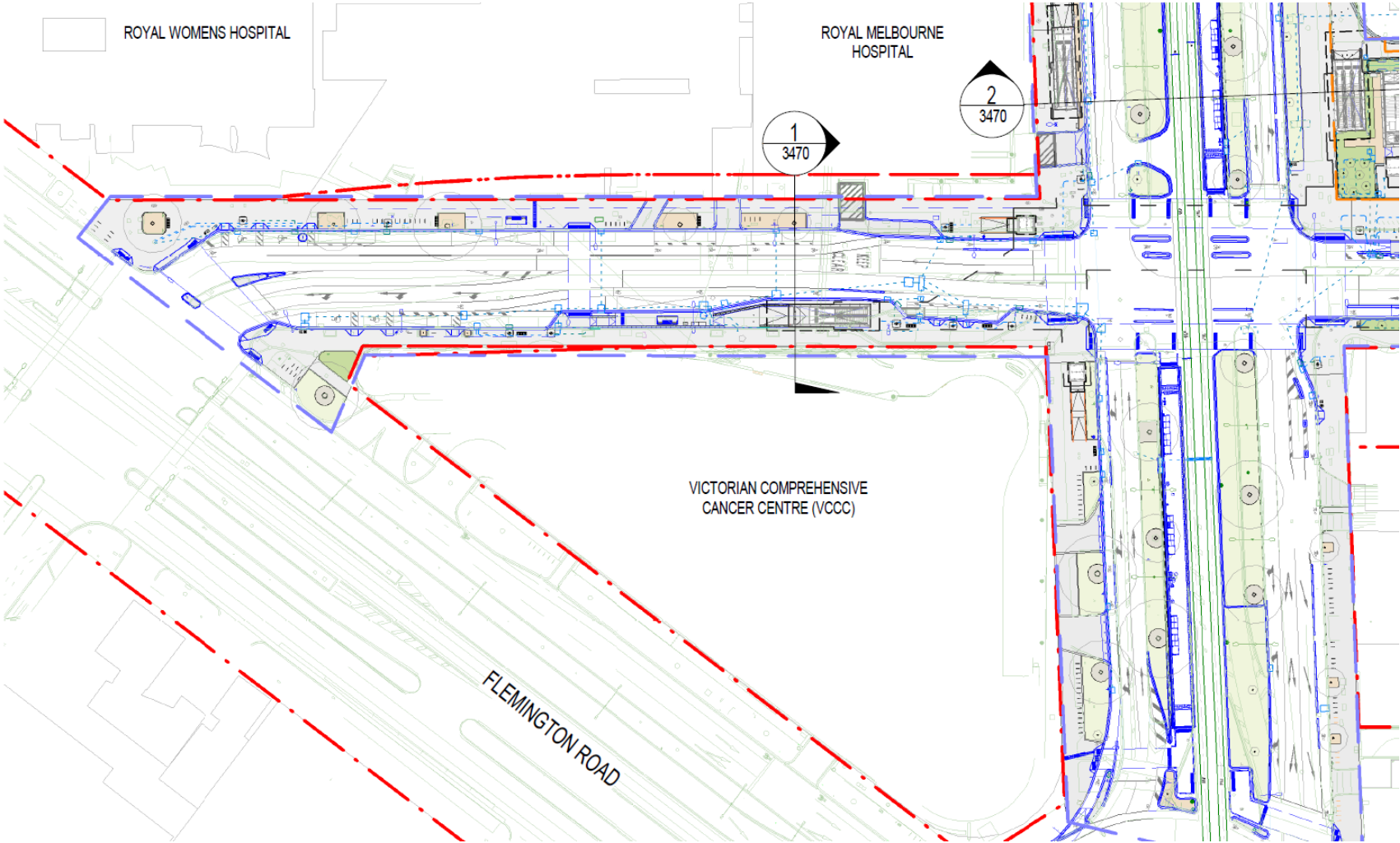
Reinstatement and Public Realm Works

Grattan Street east – scope of urban realm surface works



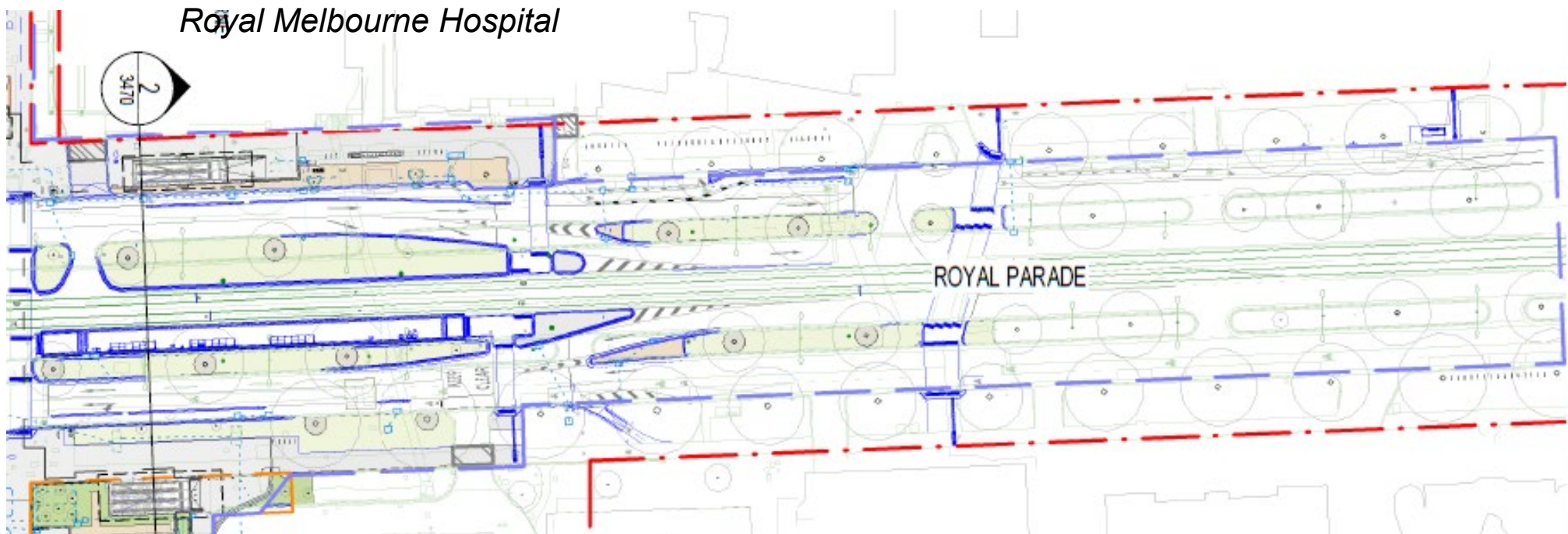
Reinstatement and Public Realm Works

Grattan Street west – scope of urban realm surface works



Reinstatement and Public Realm Works

Royal Parade (between Grattan and Story streets) – scope of urban realm surface works



University of Melbourne



Construction Update: North Melbourne

Station Entrance Construction



Station entrance progress

24 February 2022



6 May 2022



27 May 2022



Station Entrance

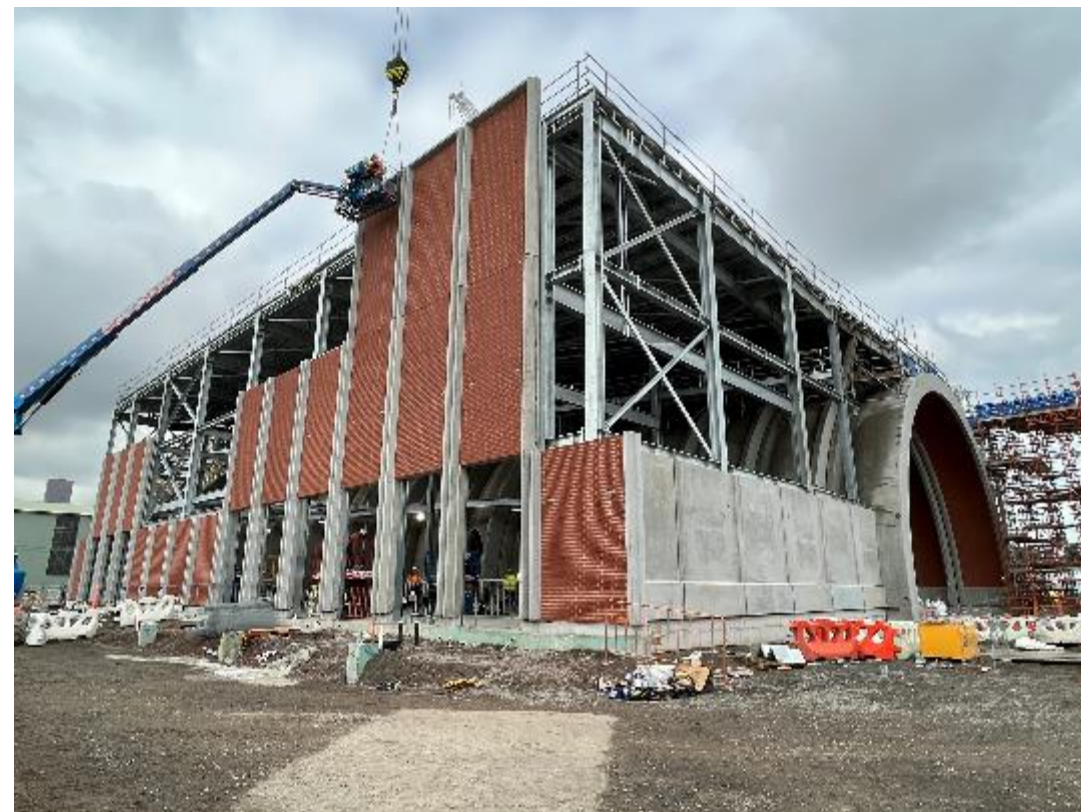


Precast cladding installation works ongoing



External cladding at main entrance

Station Entrance





Escalators down to concourse level

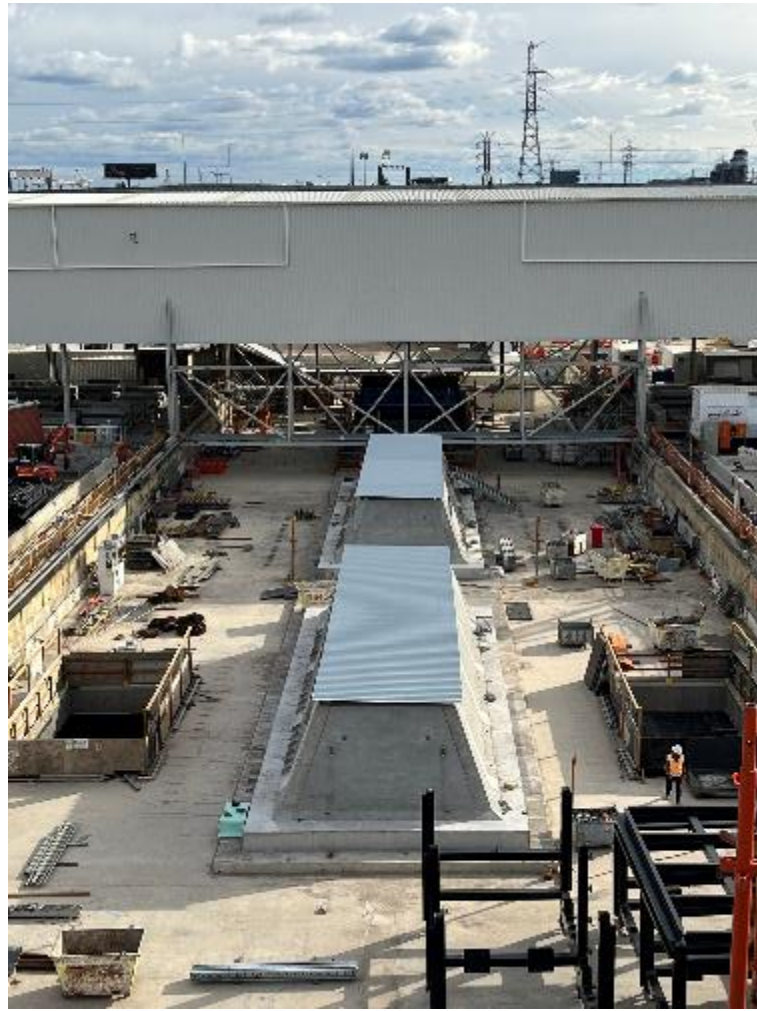


Skylight installation

Surface Works



11 May 2022



27 May 2022



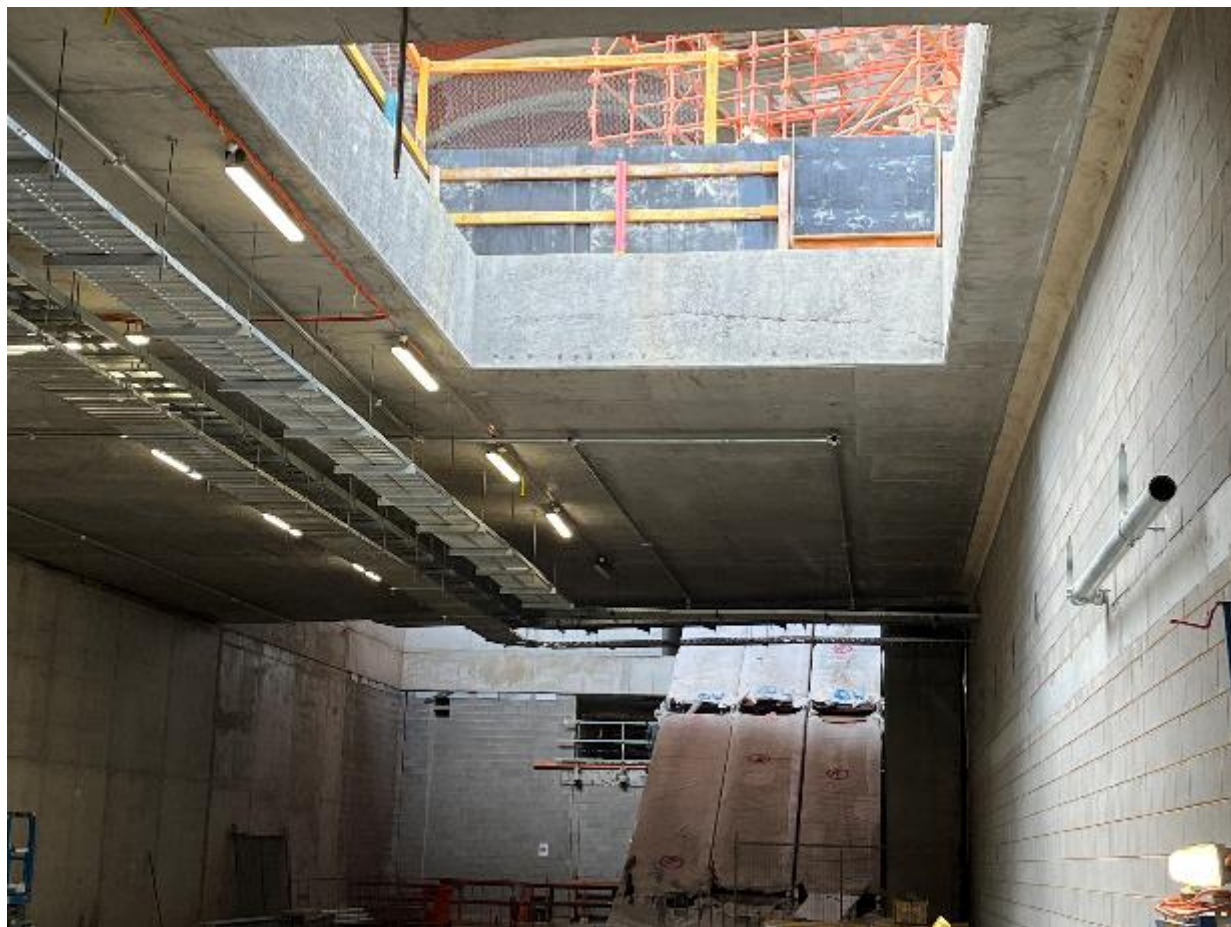
Logistics Openings



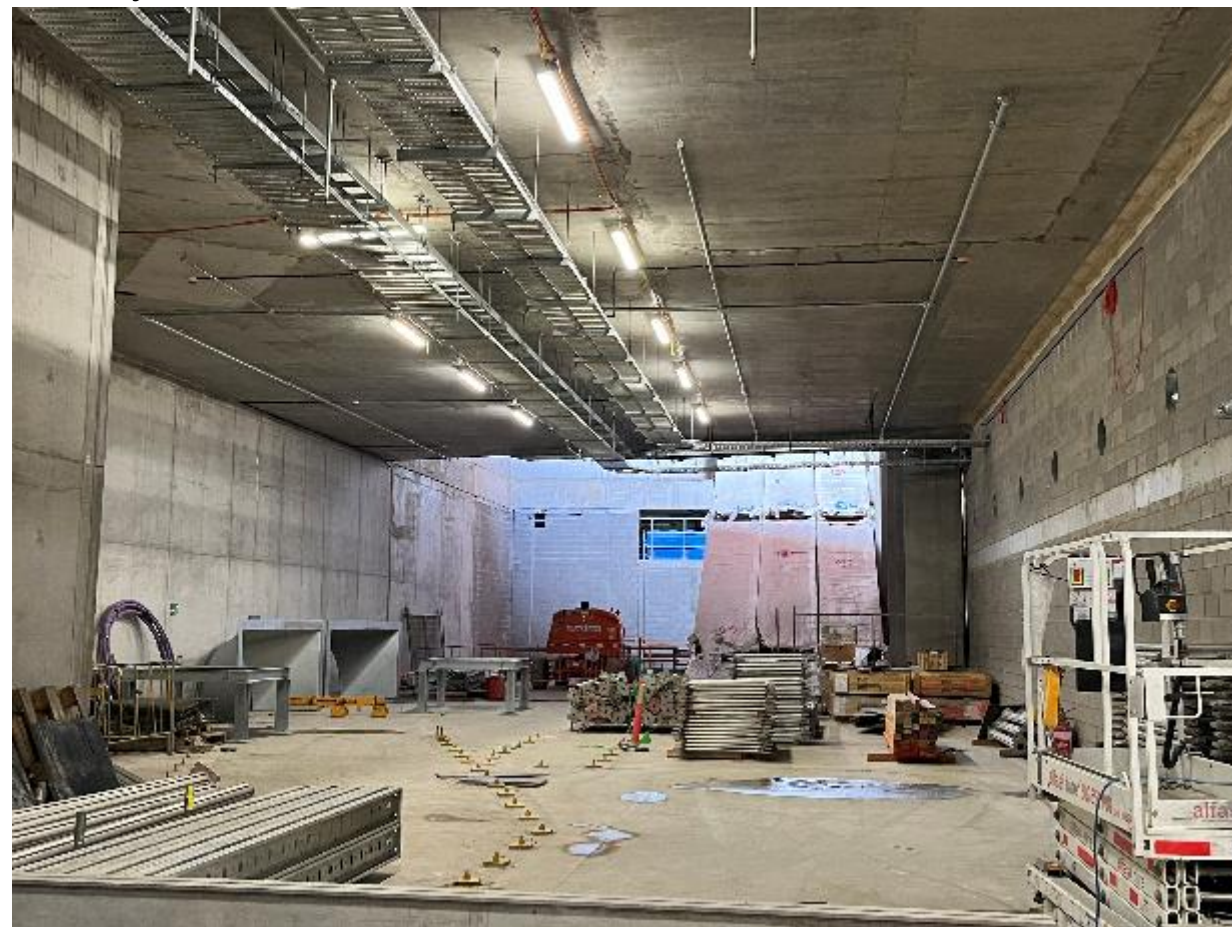
- Logistics openings are voids in the roof structure to enable the construction of the station box below. These are now progressively being closed



28 April 2022



27 May 2022



Services Building Construction



Services Building

Final fit out and testing is ongoing



Services Building Construction

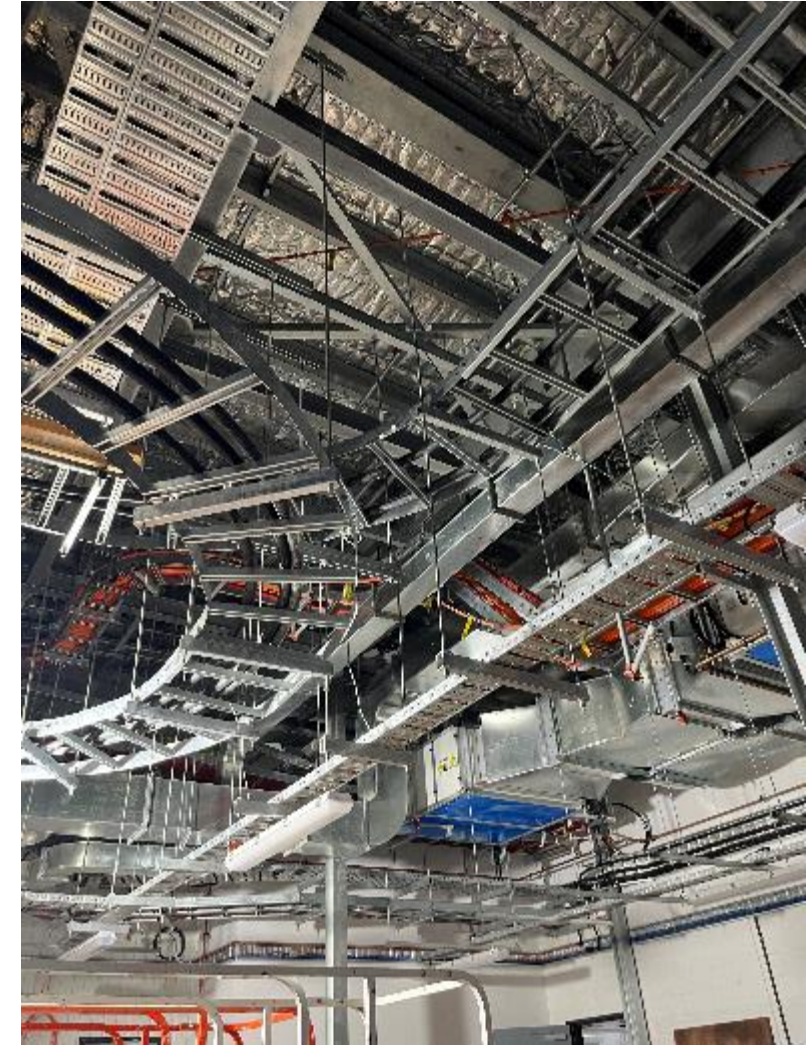


LV switch room fit out

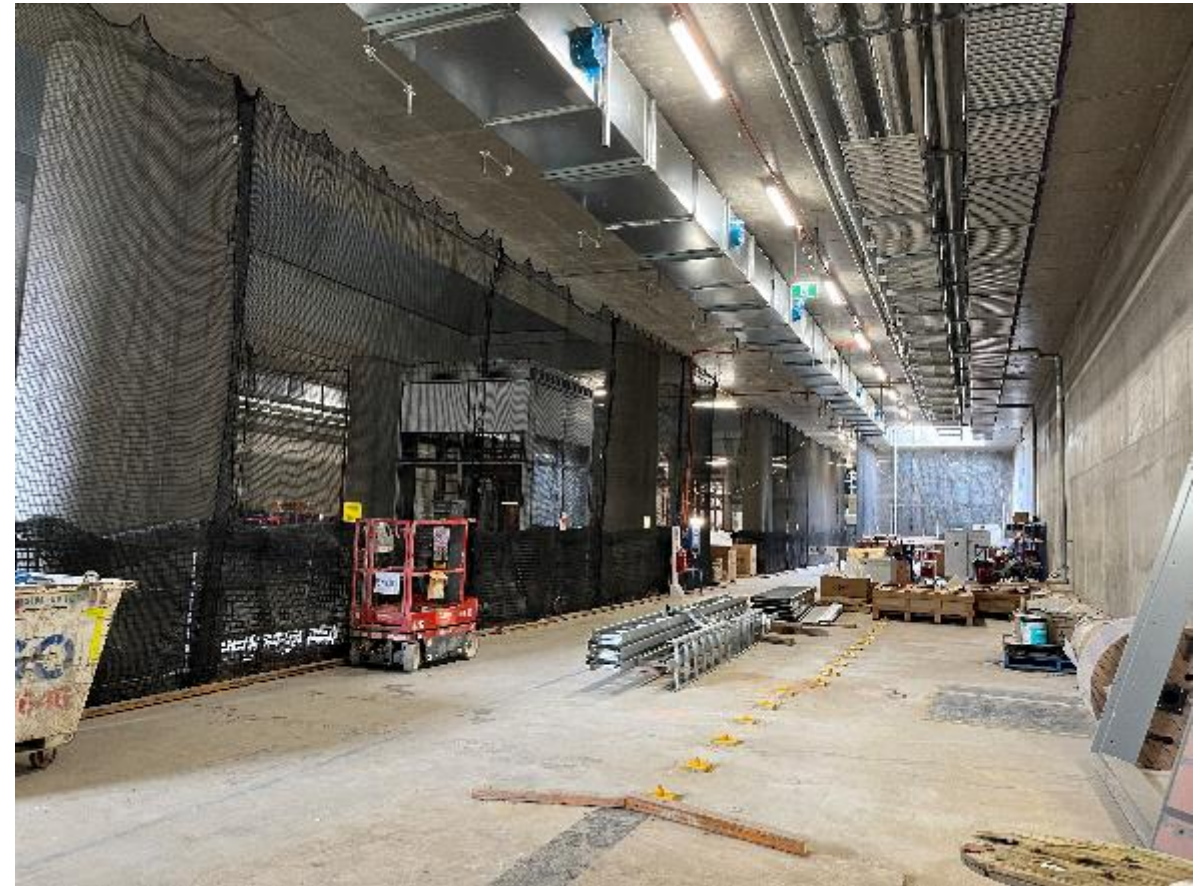
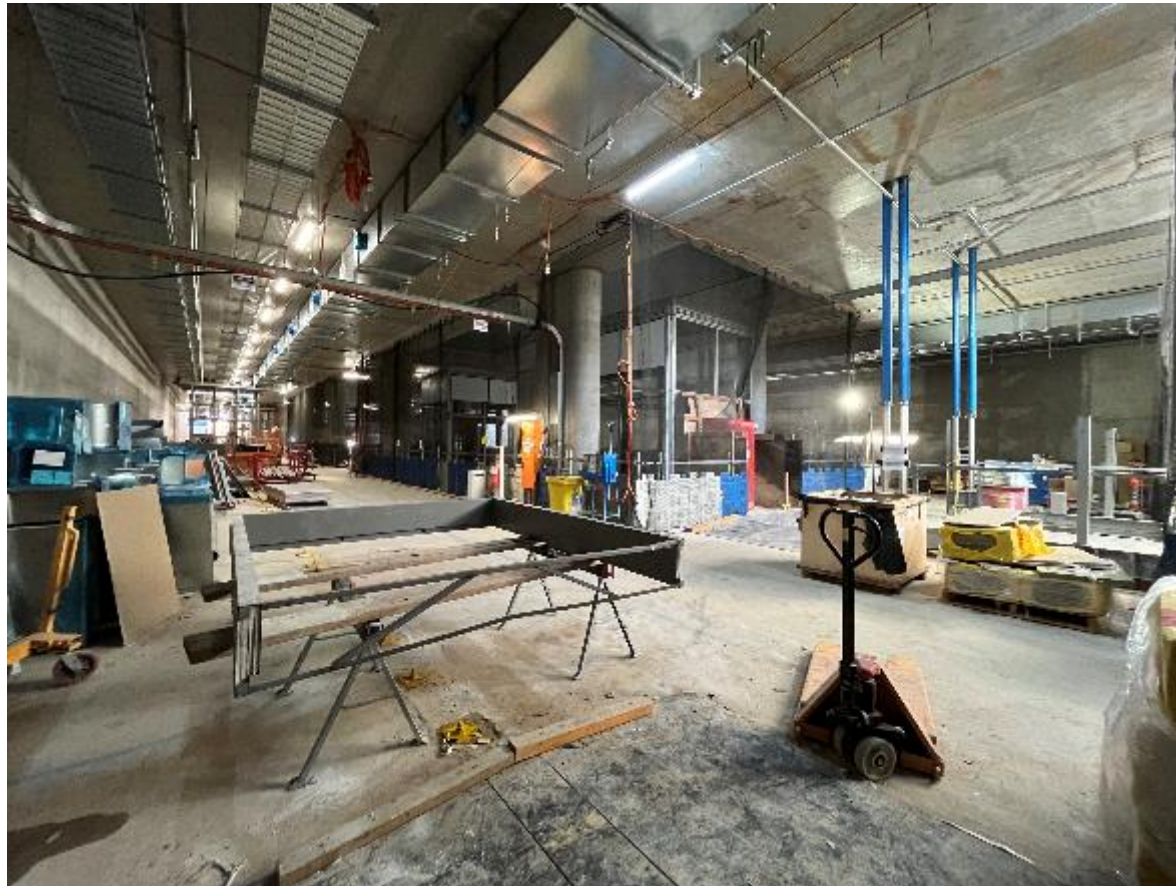


Presenter: Stef Calati

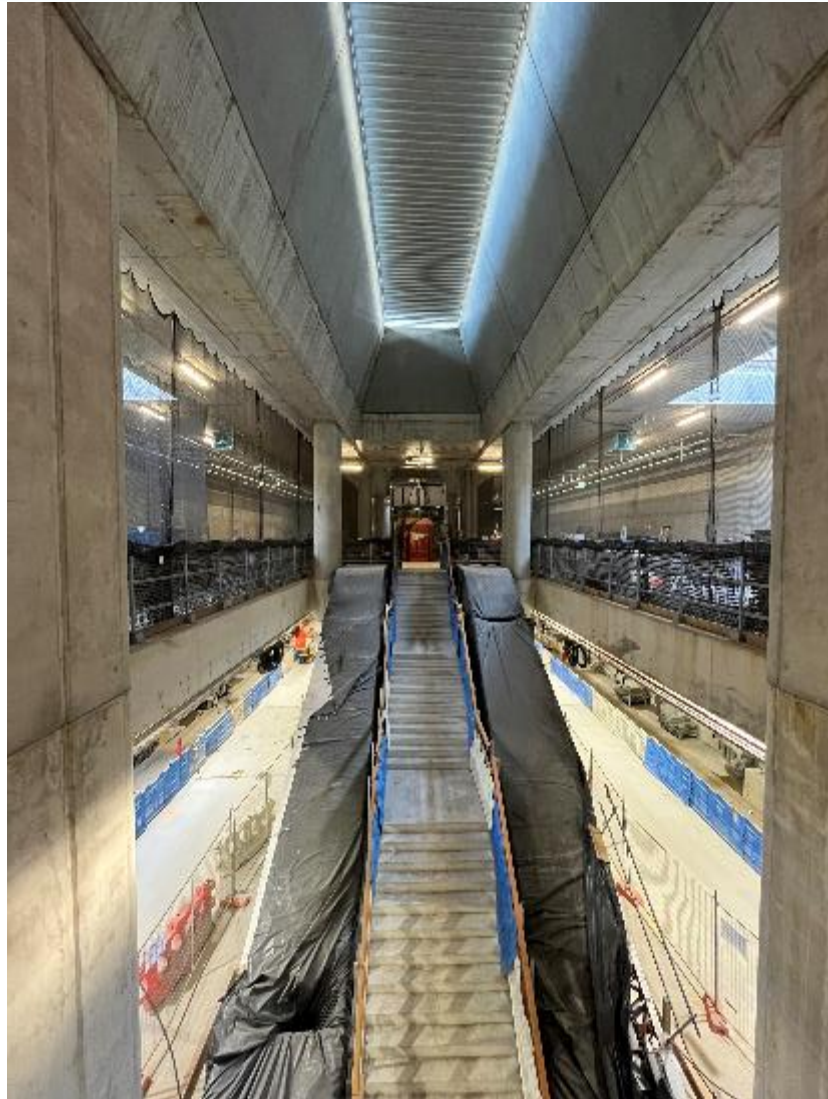
Services Building Construction



Front of House - Concourse



Skylight Openings



Back of House - Concourse



LV switch room fit out (concourse east)



LV switch room fit out (concourse level)



Plant rooms (concourse level)

Station ventilation shafts



Back of House - Concourse



Over track exhaust (OTE) and tunnel ventilation fan rooms fit out



Back of House - Concourse



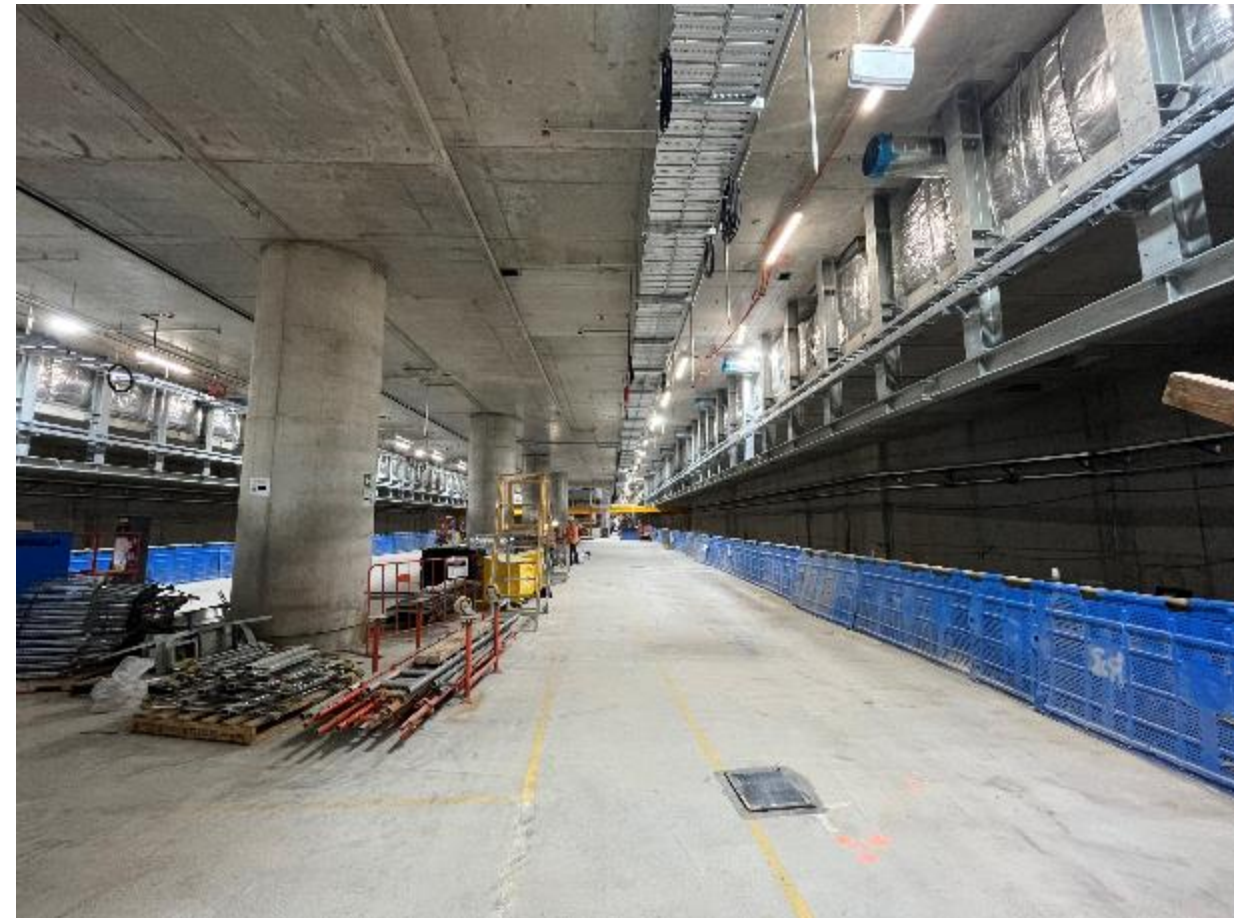
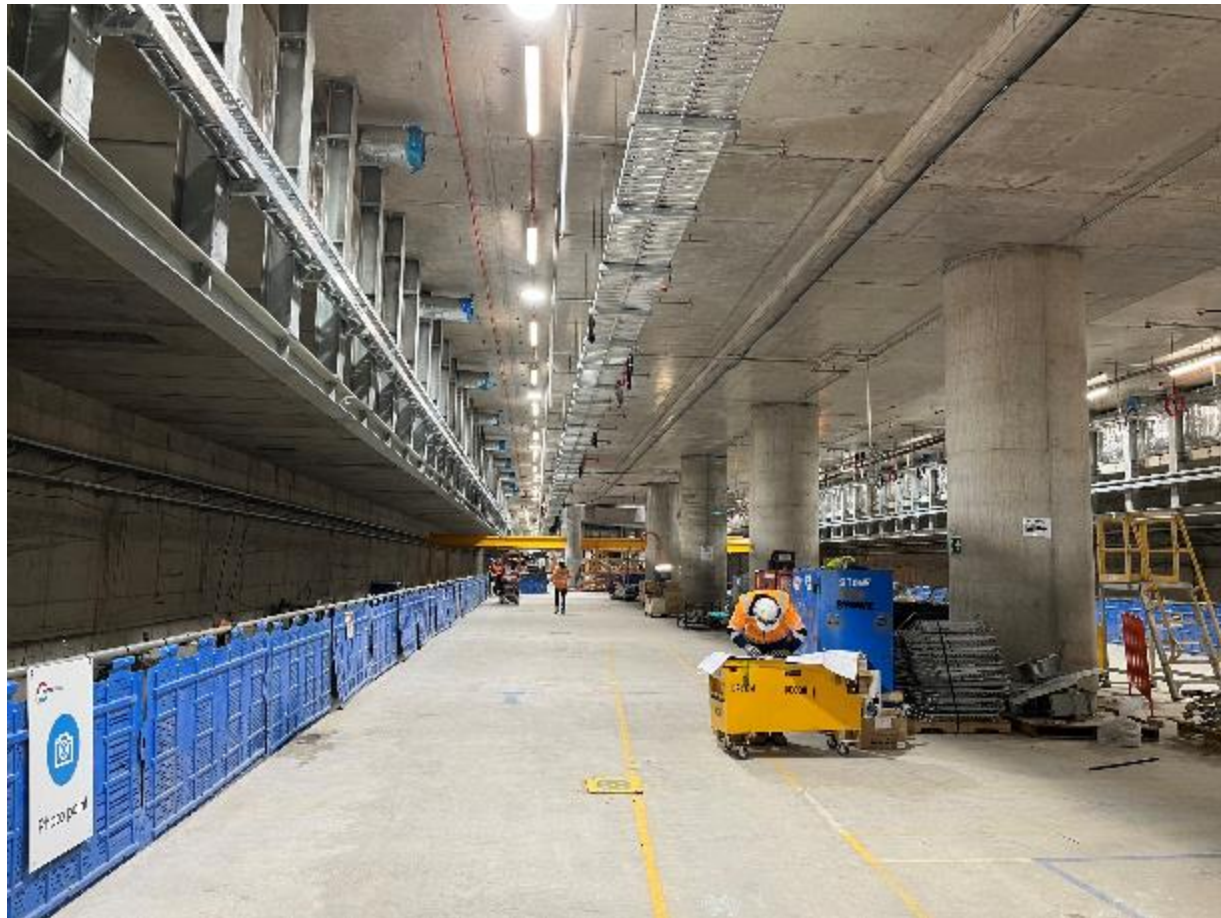
Ventilation rooms (concourse east)



Platform Level Works



Service tray rough in behind platform screen door (PSD) frames and cladding above





- Lift shaft vertical transport works are ongoing
- Platform screen door works are ongoing

Tunnel



Final tunnel transition to bring in services to the station
(Arden and Western Portal)



Six month program

North Melbourne



Activity	June	July	Aug	Sept	Oct	Nov
Surface and utility works						
Over track exhaust (OTE) and platform construction						
Services building construction						
Station entrance construction						
North Melbourne Electrical Substation construction and landscaping						



Creative Program Update

'Surge' Books Ready For Distribution



Photo 2022 Barry Street

100 Years by Jenny Lewis



SEAN
51 years old

"I went to drama school when I was 41. It's been a rollercoaster. Now, every day is different."



ANGUS
52 years old

...ening - but particularly vegetable gardening - is brutal at work and then it's gone. Like a profound antipathy to consumerism."

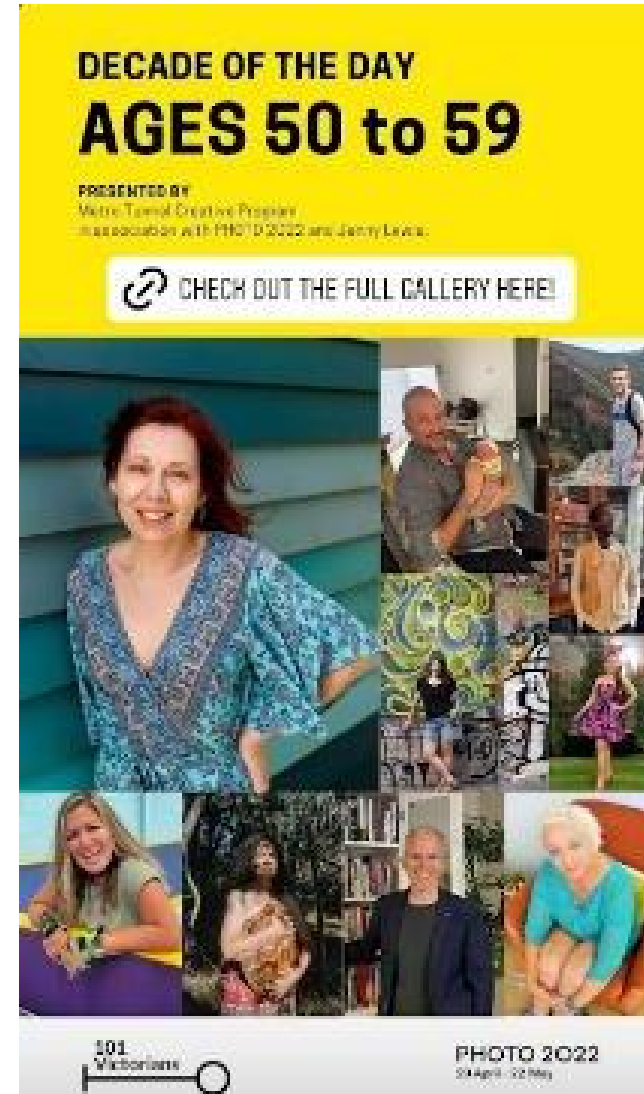
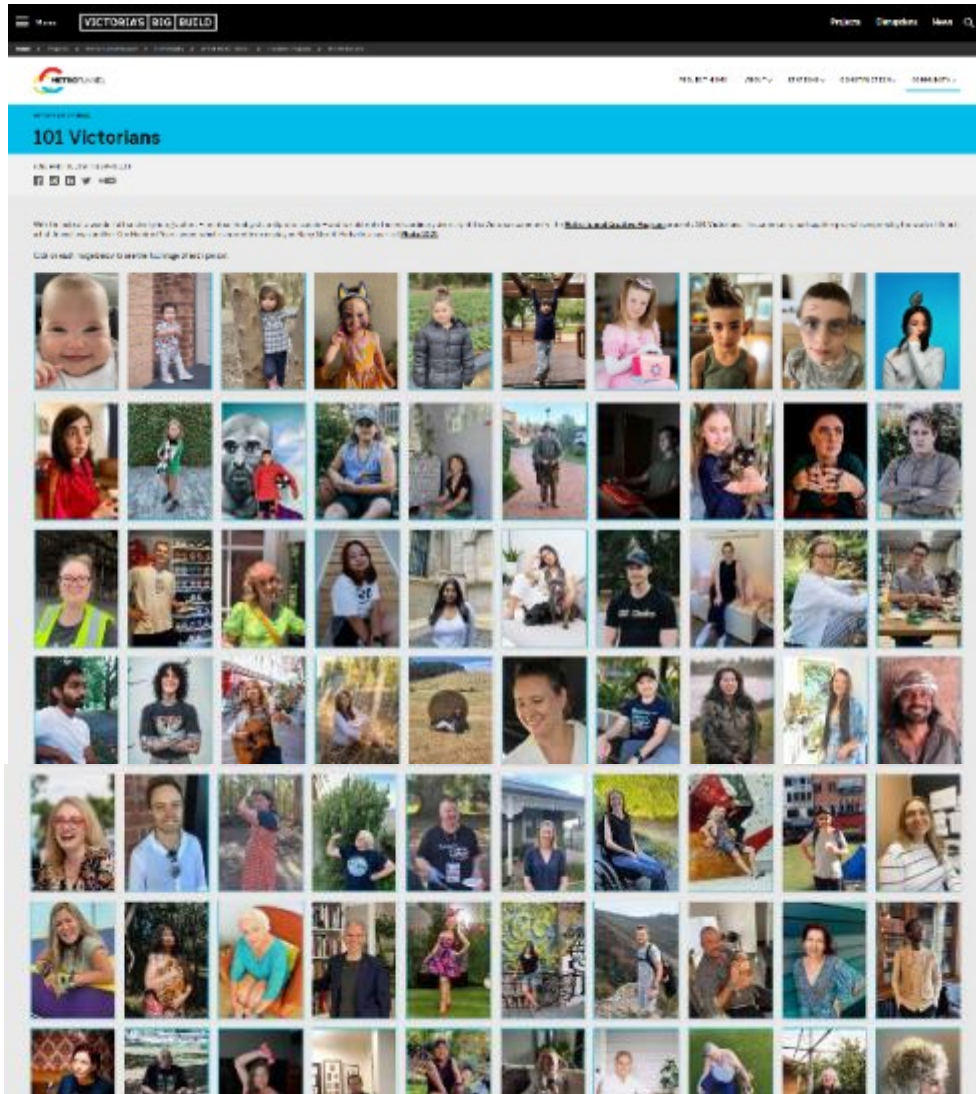


JOHN
83 years old

"Before the war, virtually every garden had pigeons. People didn't have radios - they didn't have much at all - so many men, young and old, kept pigeons. They may also have used them for eating purposes. I still race them but, like me, they're too old really."

Photo 2022 Online

101 Victorians



Presenter: Kate Masters

Communications and Stakeholder Engagement Update

Notifications and Communications

- Parkville: Services relocations (Grattan Street between Leicester and Bouverie streets) works notification (20 May)
- North Melbourne: June/July construction update (1 June)
- Parkville: June/July construction update (7 June)
- 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
- North Melbourne: monthly meeting with Mauri ANZ
- Parkville site tours
- Parkville: fortnightly meetings with Peter MacCallum Cancer Centre, Melbourne Health, University of Melbourne, City of Melbourne, and monthly meeting with Graduate House

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

Other Business

- Next meeting: Friday 29 July 2022
- CRG Parkville site tour: proposed for Monday 27 June