



STATE LIBRARY STATION COMMUNITY REFERENCE GROUP

CROSS YARRA PARTNERSHIP
FRIDAY 13 MARCH 2020



Construction partner:





STATE LIBRARY STATION COMMUNITY REFERENCE GROUP

Jodie Barrington, CBD Precinct Lead, CYP D&C



Construction partner:



AGENDA

1. Five years since work began on the Metro Tunnel Project
2. State Library Station update

FIVE YEARS SINCE WORK BEGAN ON THE METRO TUNNEL PROJECT

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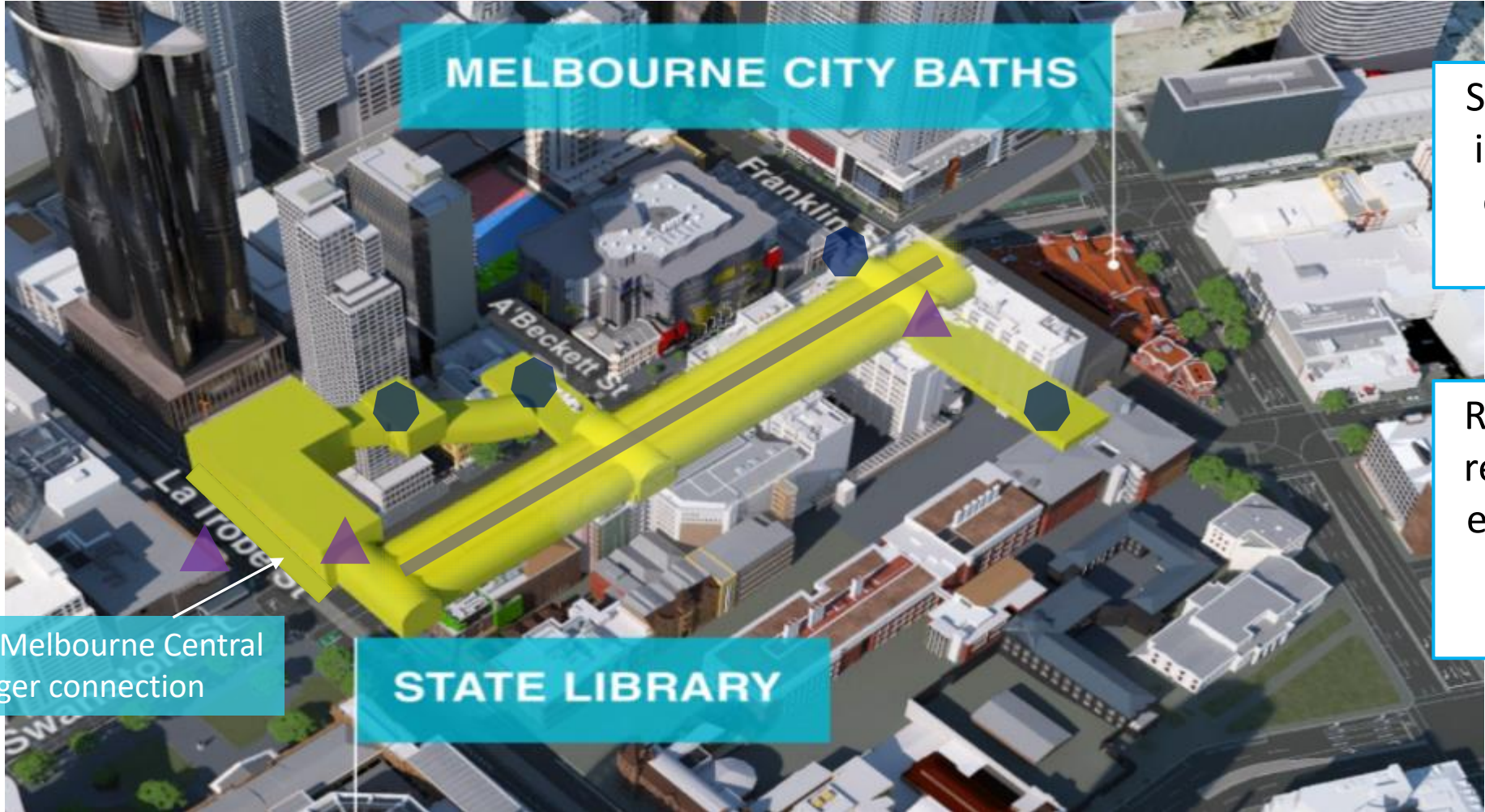
STATE LIBRARY STATION UPDATE



FRANKLIN ADIT



A'BECKETT ADIT



MELBOURNE CITY BATHS

Steel column
installations
commence
mid-March

Roadheaders
recommence
early June to
finish
tunnelling

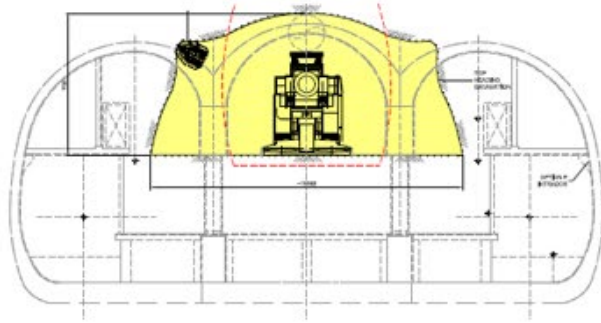
STATE LIBRARY

Future Melbourne Central
passenger connection

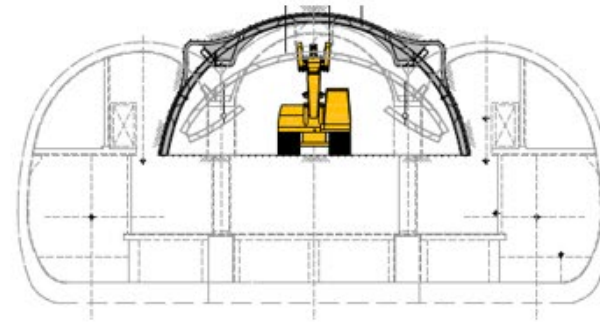
Future State
Library Station
entrance

Future
mechanical
and electrical

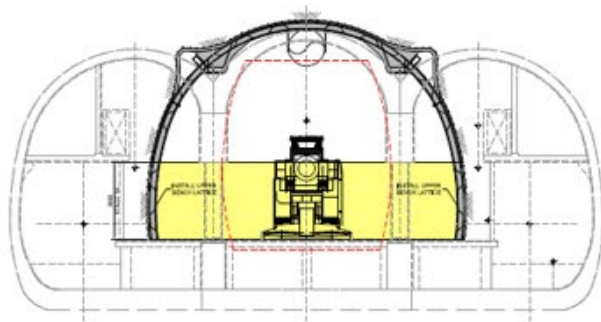
TRINOCULAR CAVERNS



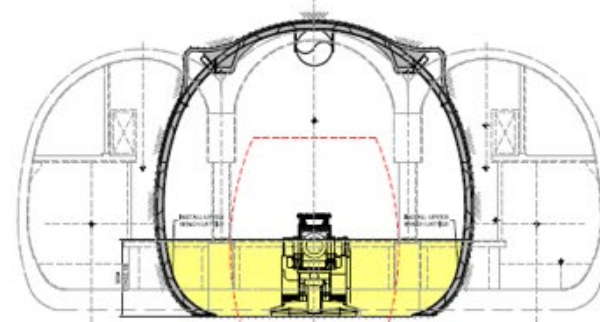
Station platform tunnel heading excavation



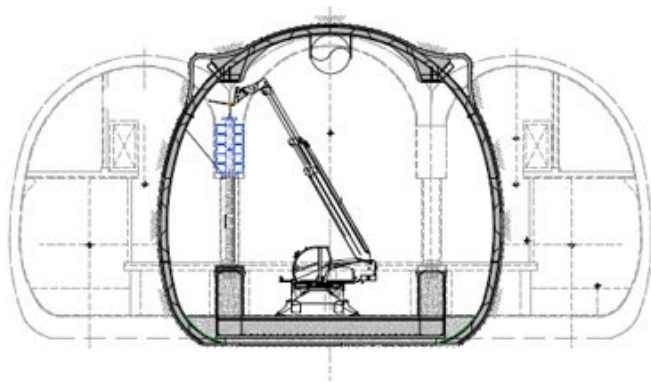
Positioning arch installation



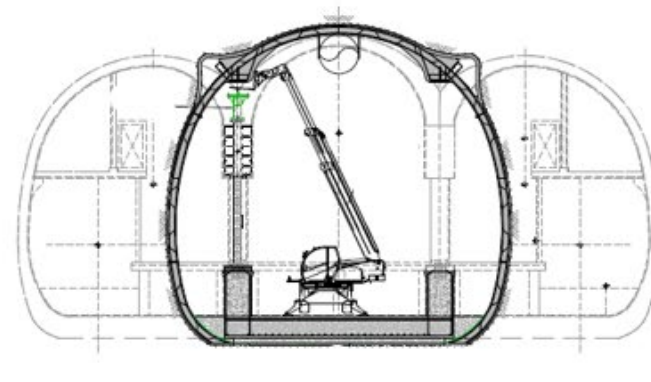
Station platform upper bench excavation



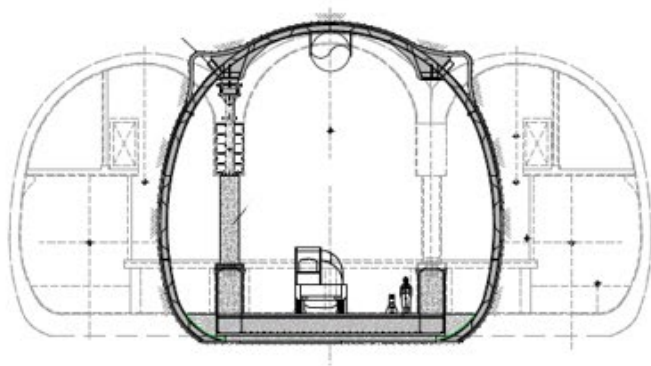
Station platform lower bench excavation



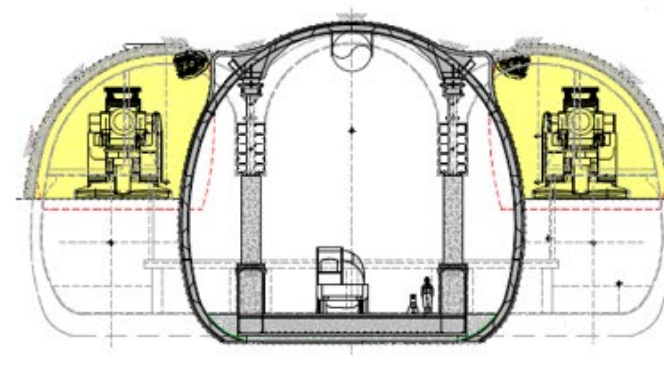
LHS steel tower part 2



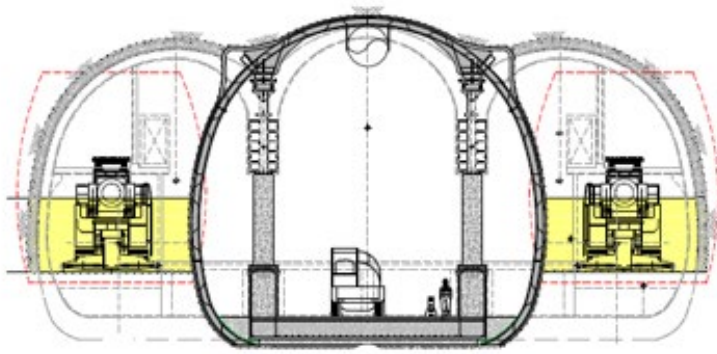
LHS Steel tower, part 3



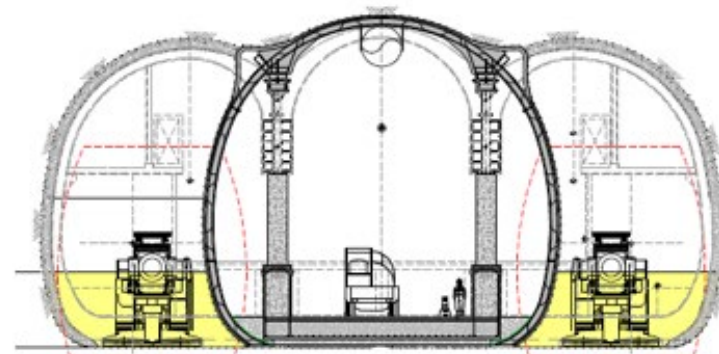
Installation of grout pad and permanent column
concreting



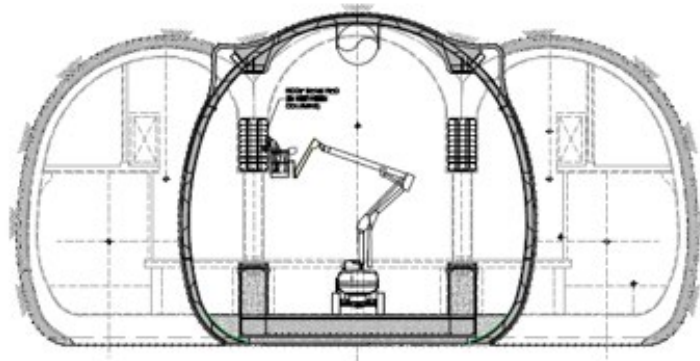
Eastbound/ westbound top heading
excavation



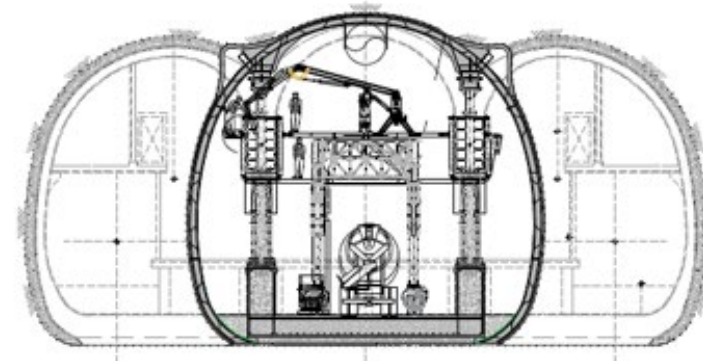
Eastbound/ westbound upper bench excavation



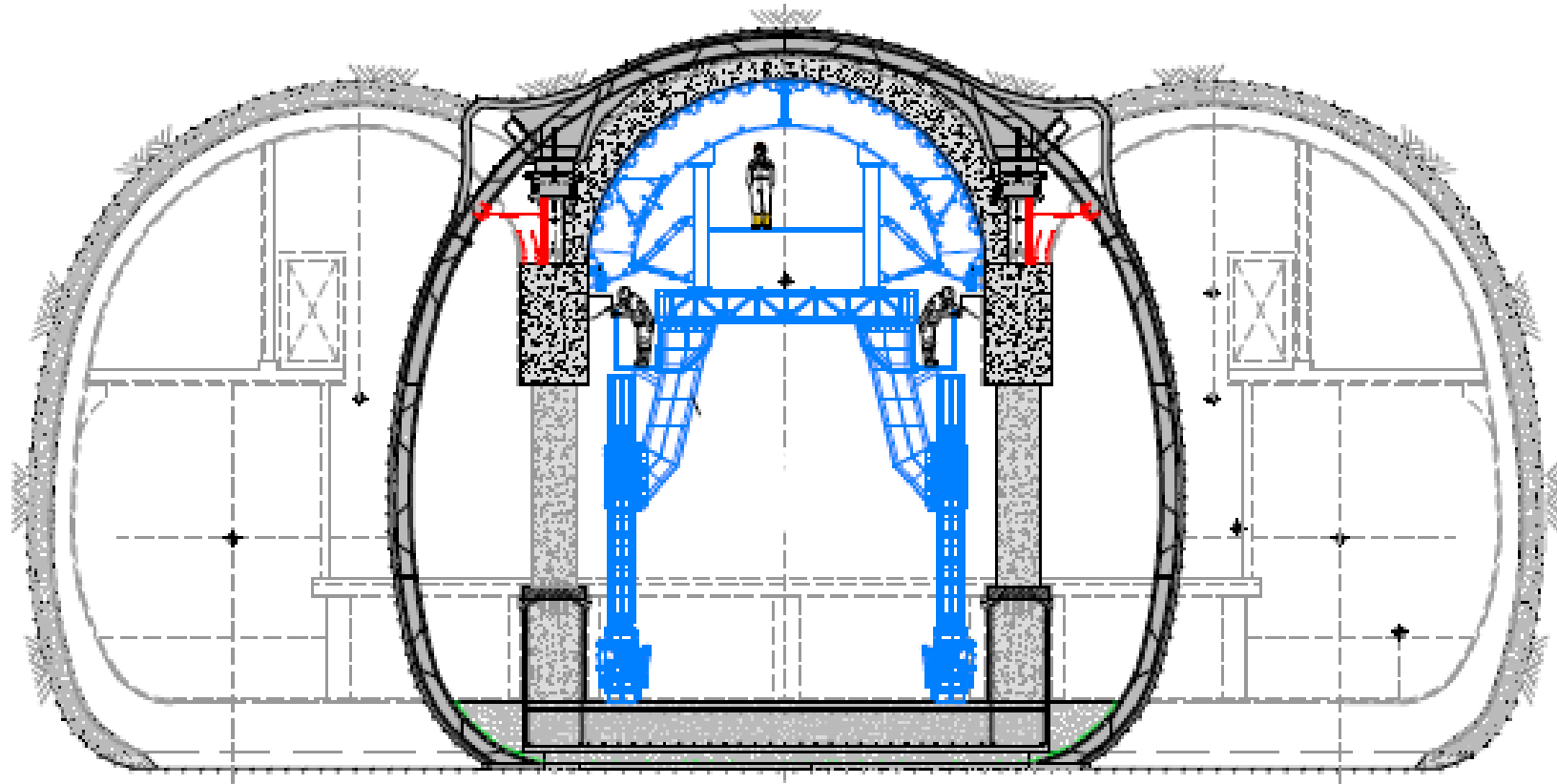
Eastbound/ westbound lower bench excavation



Roof beam reo in between columns



Roof beam pouring



Station tunnel crown waterproofing

Station tunnel crown reo installation

Station tunnel crown concreting

STEEL COLUMN INSTALLATION PROGRESS



Casting plates for
steel columns



Steel columns to
be encased in
concrete for the
permanent
structures

A'Beckett Street site

Tunnelling works

- 24/7

Franklin Street East site

Tunnelling works

- 24/7

The Franklin Street East site is continuing construction of the underground station platform, this involves delivery of steel and concrete to the site using trucks.



FRANKLIN STREET WEST UPDATE

FRANKLIN STREET WEST SITE UPDATE

Activity	Location	Mar	April	May	June	July	August
Shaft construction	Site						
Tunnelling support works and commencement of permanent structure build							





LA TROBE STREET UPDATE

LA TROBE STREET SITE UPDATE

Activity	Location	Mar	April	May	June	July	August
Perimeter piling and plunge column installation	Site						
Tower crane installation	Site						
Slab works	Site						
Excavation	Site						

LA TROBE STREET SITE PILING

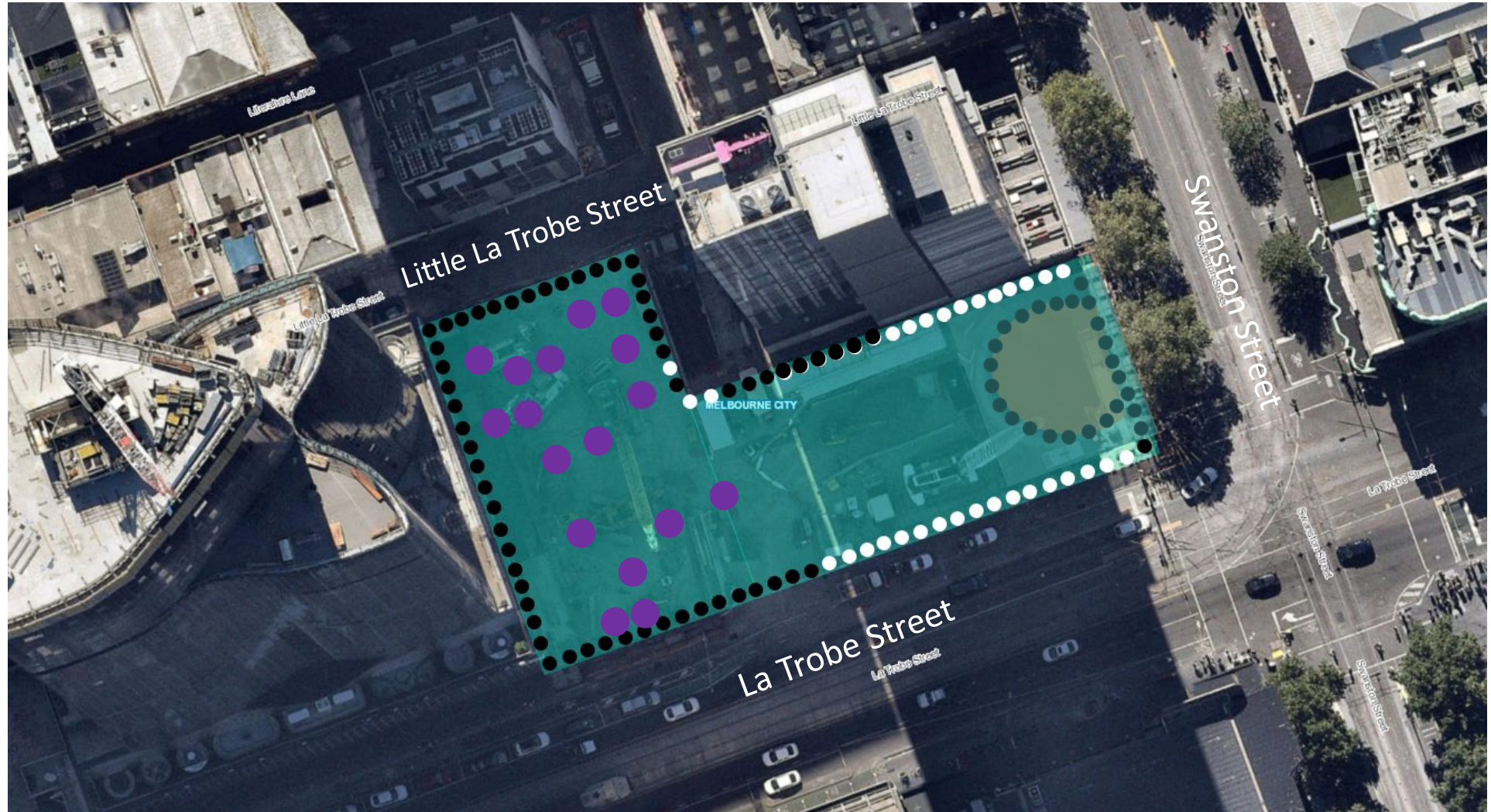
Perimeter piling

- 120 of 172 complete



Plunge columns

- 25 of 56 complete



LA TROBE UPDATE

Tower crane installation

- A tower crane will be installed at the La Trobe Street site from **8pm Friday 13 March until 8pm Friday 20 March 2020** to facilitate the top down excavation and construction works required for the future State Library Station, under an eastbound road closure of La Trobe Street
- Little La Trobe Street will also be closed from 7am to 6pm Wednesday 18 March (Thursday 19 March and Friday 20 March, if required), to build the boom for the tower crane

Piling and plunge column works

- Monday to Saturdays, 7am to 6pm
- Concrete pours and minor works, Monday to Fridays, 6pm to 10pm

Excavation and slab works

- Commencing late-March
- Monday to Saturdays, 7am to 6pm
- Concrete pours and minor works, Monday to Fridays, 6pm to 10pm

Oversized deliveries

- 1am to 7am, as required



LITTLE LA TROBE STREET UPDATE

LITTLE LA TROBE STREET SITE UPDATE

Activity	Mar	April	May	June	July	August
Piling						
Little La Trobe Street closure						
Plunge column installations						
Capping beam						
Slab and excavation works						

Stages of piling

1

SETTING UP THE RIG

Deliver the rig to site and move it into position



2

DRILLING

Drilling holes into the ground using a core barrel, and excavating material



3

STEEL REINFORCEMENT

Removing the material and inserting a prefabricated steel reinforcement cage into the hole



4

CONCRETE POURING WITH TREMIE PIPE

Pouring concrete into the hole to form the pile. Once the concrete sets, the pile is complete



5

CAPPING THE PILES

Once the piles are constructed, the top layer of concrete is removed and topped by a capping beam to prevent lateral displacement.

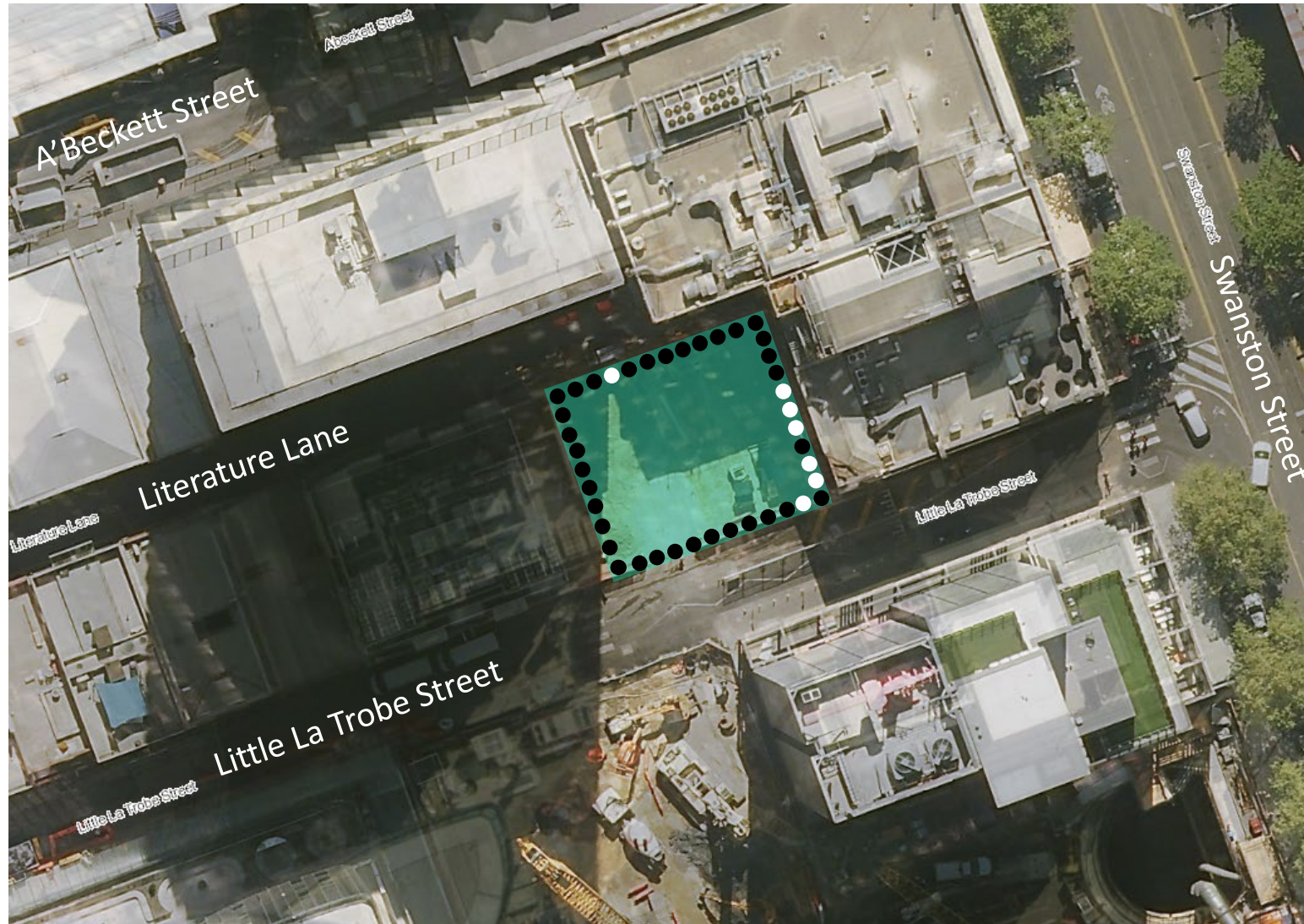


Start of the pile top removal process

LITTLE LA TROBE STREET SITE PILING

Perimeter piling

- 59 of 67 complete



LITTLE LA TROBE UPDATE

Piling works

- Monday to Saturdays, 7am to 6pm
- Concrete pours and other activities which generate low levels of noise may be required from 6pm to 10pm on weeknights.

Plunge column works

- Commencing late-March
- Monday to Saturdays, 7am to 6pm
- Concrete pours and other activities which generate low levels of noise may be required from 6pm to 10pm on weeknights.

Little La Trobe Street closure for La Trobe site tower crane installation

- 7am to 6pm Wednesday 18 March (Thursday 19 March and Friday 20 March, if required)

Crane mobilisation for plunge column installations

- Tuesday 24 March, 1am - 5am

QUESTIONS?