

A photograph of the Melbourne skyline, featuring several tall skyscrapers and a prominent church with a red spire. The Yarra River flows in the foreground, with a modern bridge crossing it. The sky is clear and blue. A large white diagonal shape is overlaid on the left side of the image, and a blue curved line graphic is on the right.

# MELBOURNE METRO RAIL PROJECT

ENVIRONMENT EFFECTS STATEMENT  
MAP BOOK





## Melbourne Metro Rail Project

# EES Map Book

20 April 2016

This EES Map Book shows the Melbourne Metro Concept Design and its key components across two set of plans:

- Horizontal Alignment Plans showing at each page opening the construction phase of the project (left side) and the operation phase of the project (right side)
- Vertical Alignment Plans showing the depth of the project infrastructure below surface level.

The Melbourne Metro Concept Design components shown within this EES Map Book include: two 9 km rail tunnels; two portals located at Kensington and South Yarra, five stations located at Arden, Parkville, CBD North, CBD South and Domain, and a passenger rail turnback at West Footscray. These components are represented within the Map Book across the nine precincts (tunnels, turnback, 2 portals and 5 stations), which collectively represent the proposed project boundary.

The proposed project boundary encompasses the key locations that would be used for permanent structures and temporary construction work sites (above and below ground). Further details of construction and operation are described in Chapter 6 *Project Description*.

The proposed project boundary and impact assessments undertaken for the EES have informed the 'draft Project Land' being exhibited with this EES in the draft Planning Scheme Amendment found in Technical Appendix A.





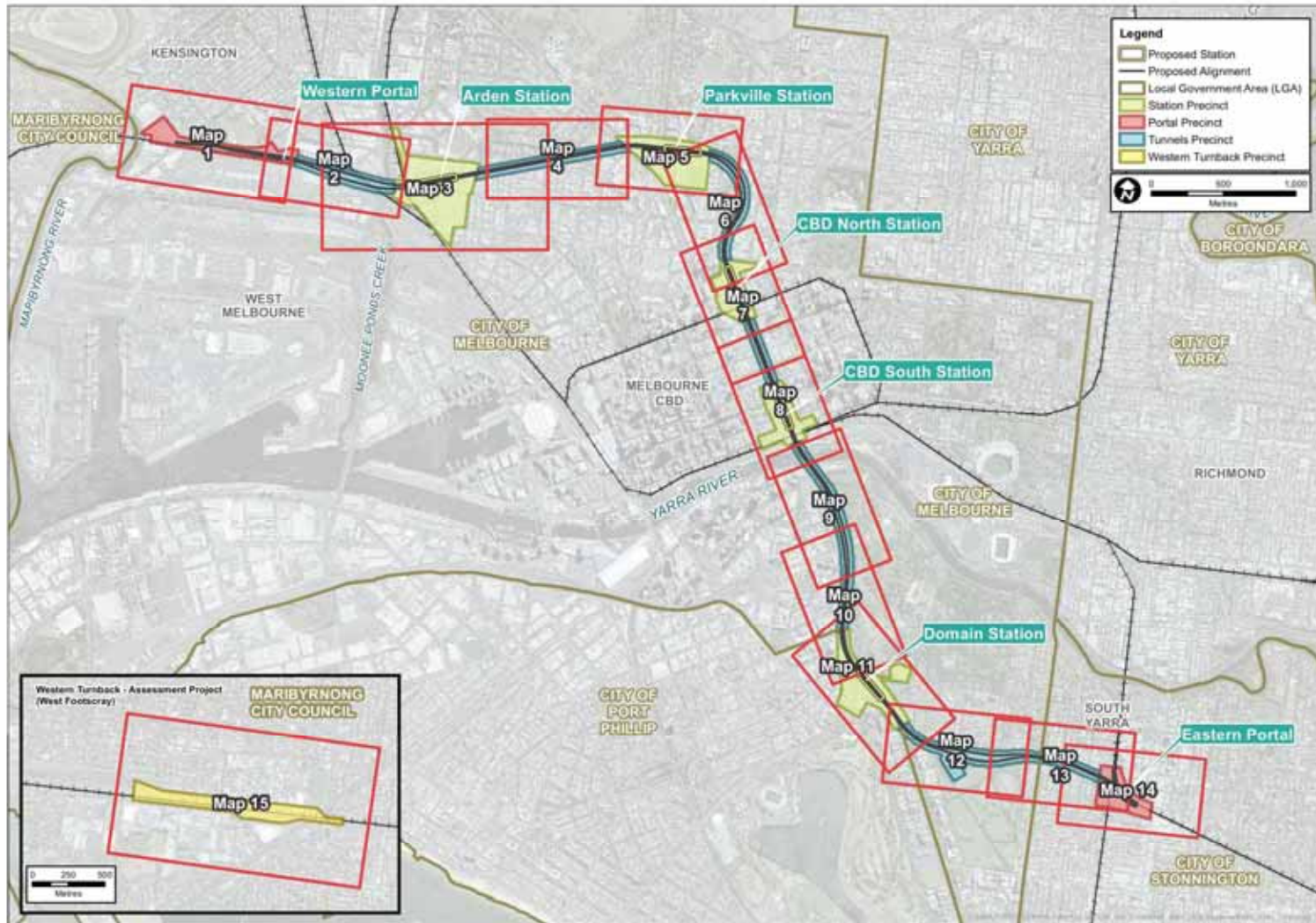


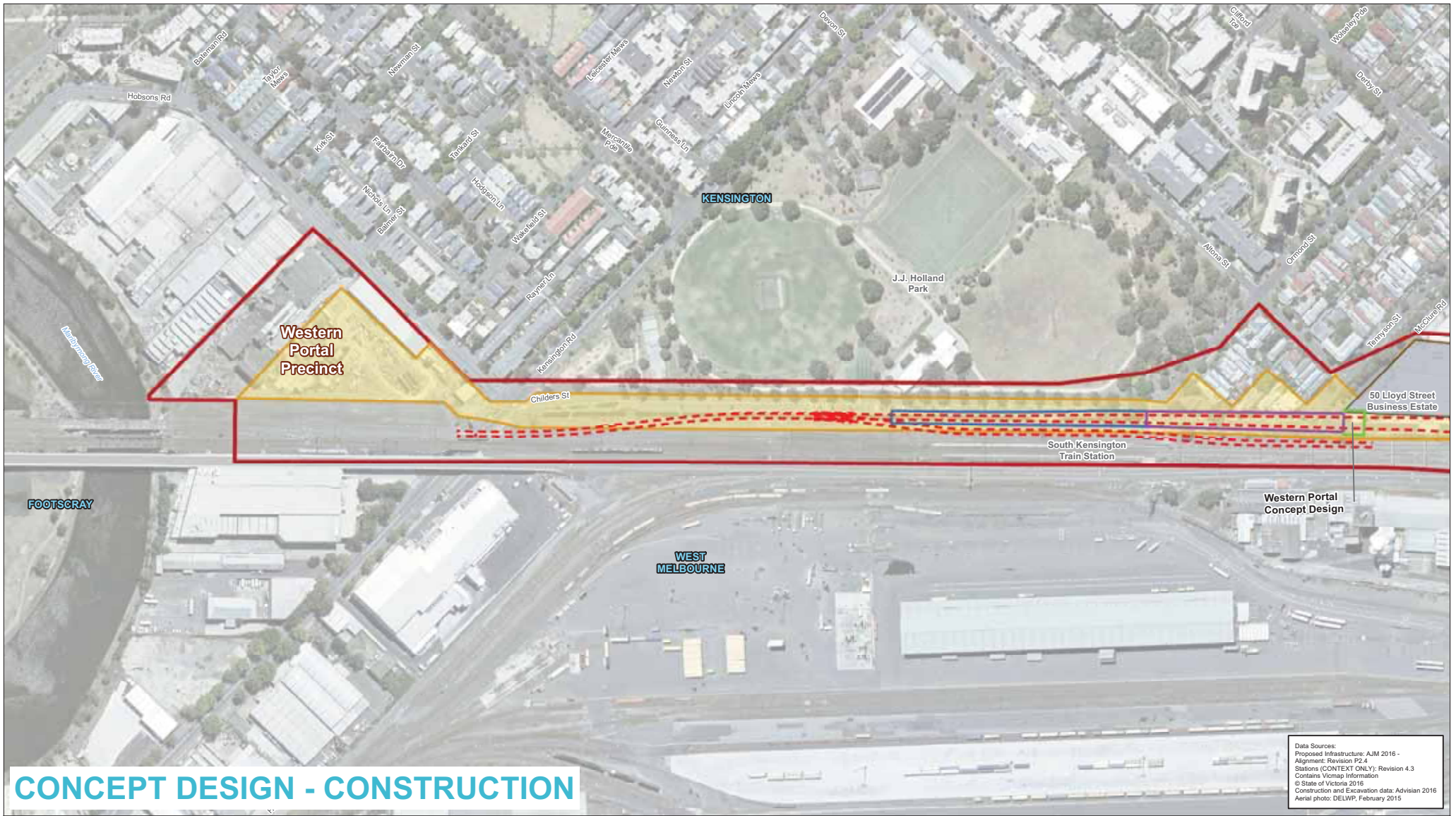


# HORIZONTAL ALIGNMENT PLANS









# CONCEPT DESIGN - CONSTRUCTION

Data Sources:  
 Proposed Infrastructure: AJM 2016 - Alignment: Revision P2.4  
 Stations (CONTEXT ONLY): Revision 4.3  
 Contains Vicmap Information  
 © State of Victoria 2016  
 Construction and Excavation data: Advisian 2016  
 Aerial photo: DELWP, February 2015

- Legend**
- Proposed Concept Design**
- - - Proposed rail alignment
  - Decline Structure (excavation)
  - Tunnel Cut and Cover (excavation)
  - TBM Retrieval Box (excavation)
- Substations**
- Electrical Substation Construction Site (3 Alternative Design Options)

- Precinct Boundaries**
- Portal Precinct
  - Proposed temporary construction work site

Note: Proposed footprint of construction areas is indicative only and may be subject to change



## Melbourne Metro Rail Project

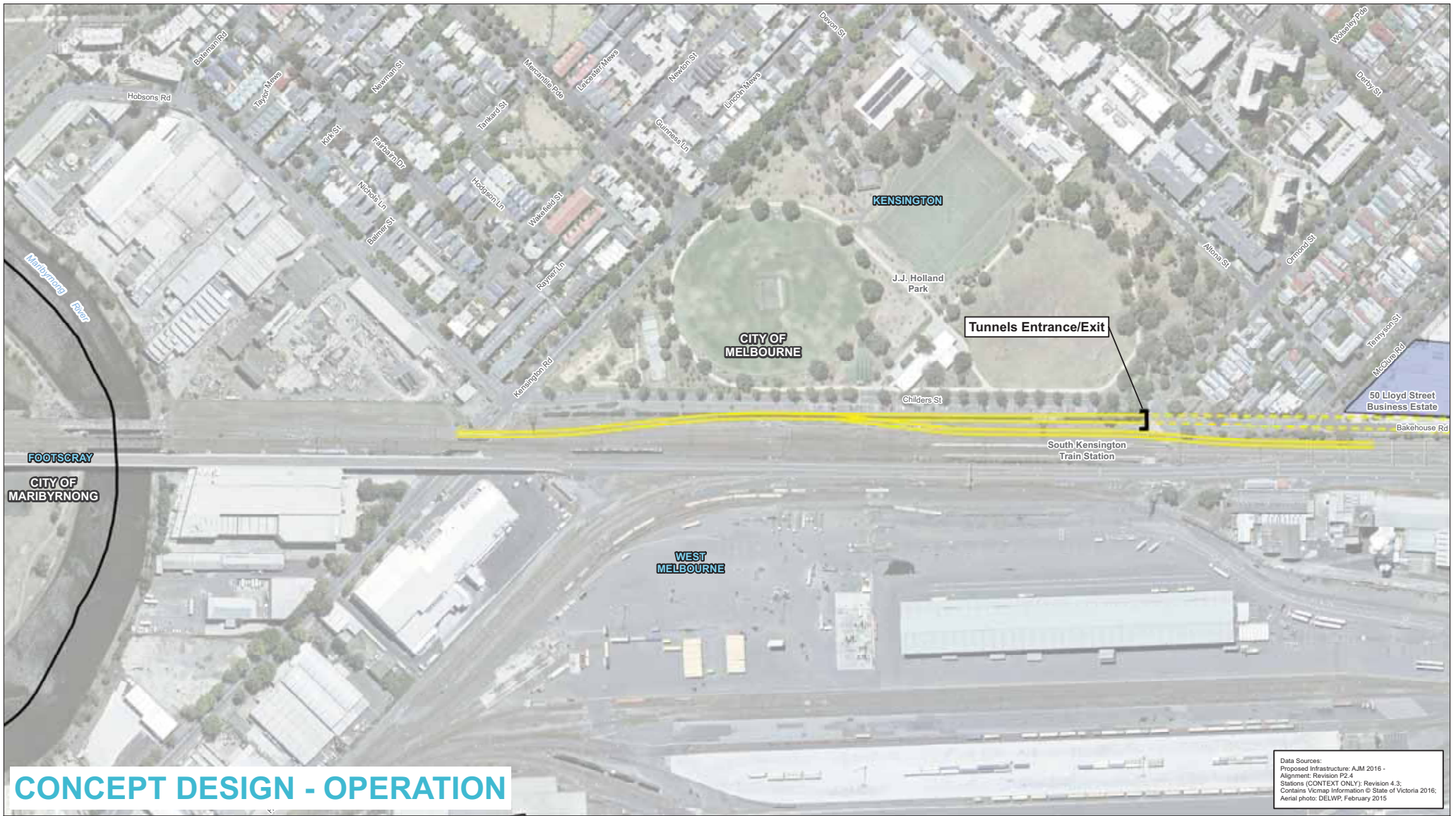
Title: Environmental and Planning Precincts - Construction  
 Map 1 of 15

Drawing Number: MMR-AJM-UGAA-MP-NN-500295  
 Drawing Revision: C1

Drawn By: A. Berman  
 Approved By: M. Tansley  
 Date: 20 April 2016







# CONCEPT DESIGN - OPERATION

Data Sources:  
 Proposed Infrastructure: AJM 2016 -  
 Alignment: Revision P2.4  
 Stations (CONTEXT ONLY): Revision 4.3;  
 Contains Vicmap Information © State of Victoria 2016;  
 Aerial photo: DELWP, February 2016

- Legend**
- Proposed Concept Design
  - Proposed Alignment Above
  - - - Proposed Alignment Below
  - Tunnels Entrance/Exit
  - Substations**
  - Electrical Substation Construction Site (3 Alternative Design Options)
  - Local Government



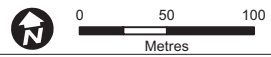
Note: Proposed footprint of post-construction structures is indicative only and may be subject to change



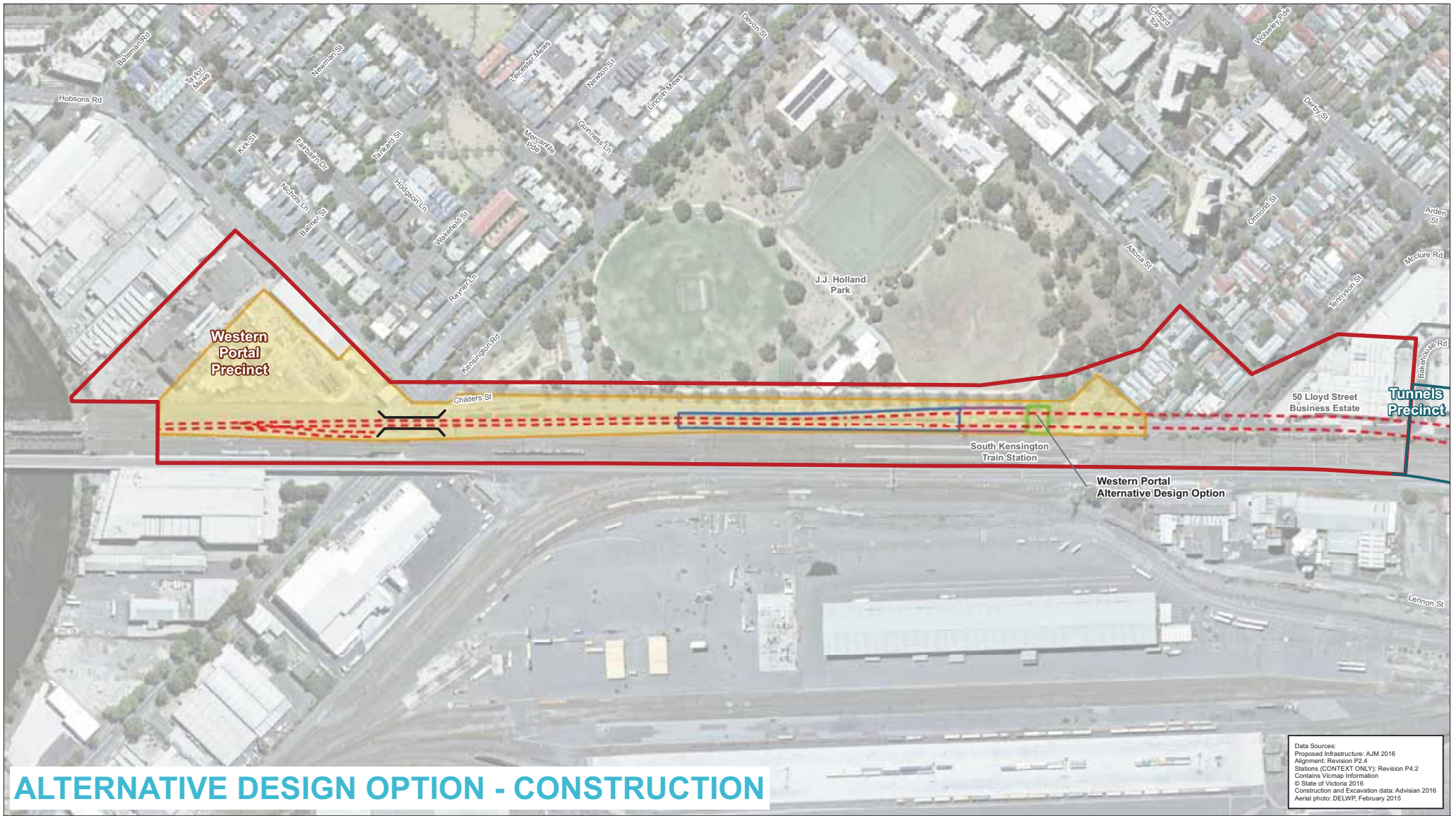
## Melbourne Metro Rail Project

Title: Environmental and Planning Precincts - Operation / Post Construction  
 Map 1 of 15

|                                              |                            |                         |  |
|----------------------------------------------|----------------------------|-------------------------|--|
| Drawing Number:<br>MMR-AJM-UGAA-MP-NN-500288 |                            | Drawing Revision:<br>C1 |  |
| Drawn By:<br>A. French                       | Approved By:<br>M. Tansley | Date:<br>20 April 2016  |  |







# ALTERNATIVE DESIGN OPTION - CONSTRUCTION

Data Sources:  
 Proposed Infrastructure: AJM 2016  
 Alignment: Revision P2.4  
 Stations (CONTEXT ONLY): Revision P4.2  
 Contains Vicmap Information  
 © State of Victoria 2016  
 Construction and Excavation data: Advisian 2016  
 Aerial photo: DELWP, February 2015

- Legend**
- Alternative Design Option**
    - - - Proposed rail alignment
    - Decline Structure (excavation)
    - Tunnel Cut and Cover (excavation)
    - TBM Retrieval Box (excavation)
    - New railway bridge
  - Precinct Boundaries**
    - Tunnels Precinct
    - Portal Precinct
  - Proposed temporary construction work site (Western Portal Alternative Design Option)

Note: Proposed footprint of construction area is indicative only and may be subject to change



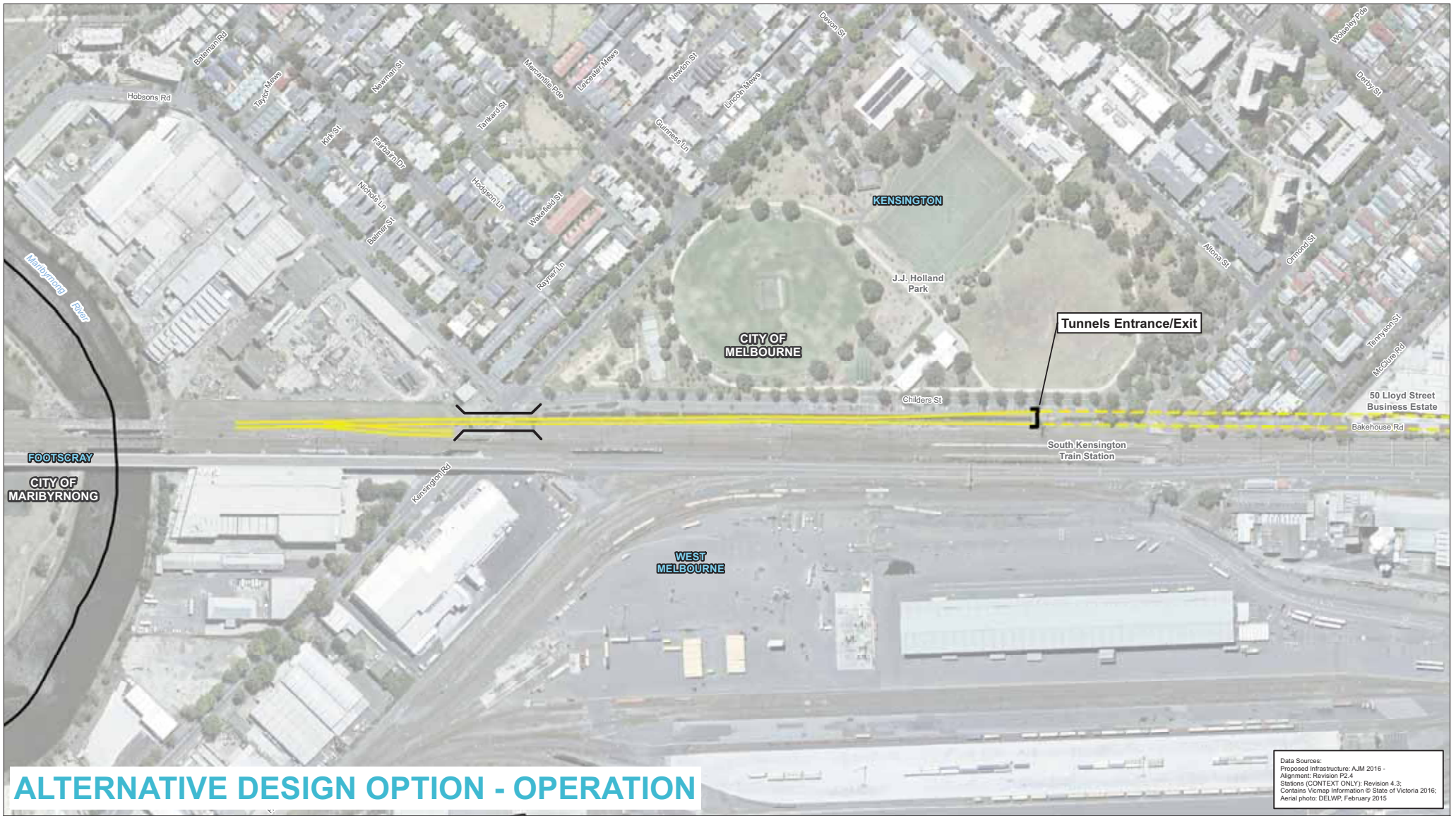
## Melbourne Metro Rail Project Environmental and Planning Precincts - Construction Map 1A - Alternative Design Option

Drawing Number: MMR-AJM-UGAA-MP-NN-500295  
 Drawing Revision: C1

Drawn By: A. Berman  
 Approved By: M. Tansley  
 Date: 20 April 2016







# ALTERNATIVE DESIGN OPTION - OPERATION

Data Sources:  
 Proposed Infrastructure: AJM 2016 -  
 Alignment: Revision P2.4  
 Stations (CONTEXT ONLY): Revision 4.3;  
 Contains Vicmap Information © State of Victoria 2016;  
 Aerial photo: DELWP, February 2016

- Legend**
- Alternative Design Option
  - Proposed alignment above ground
  - - - Proposed alignment below ground
  - Local Government Area
  - Tunnels Entrance/Exit
  - ≡ New railway bridge

Note: Proposed footprint of post-construction structures is indicative only and may be subject to change



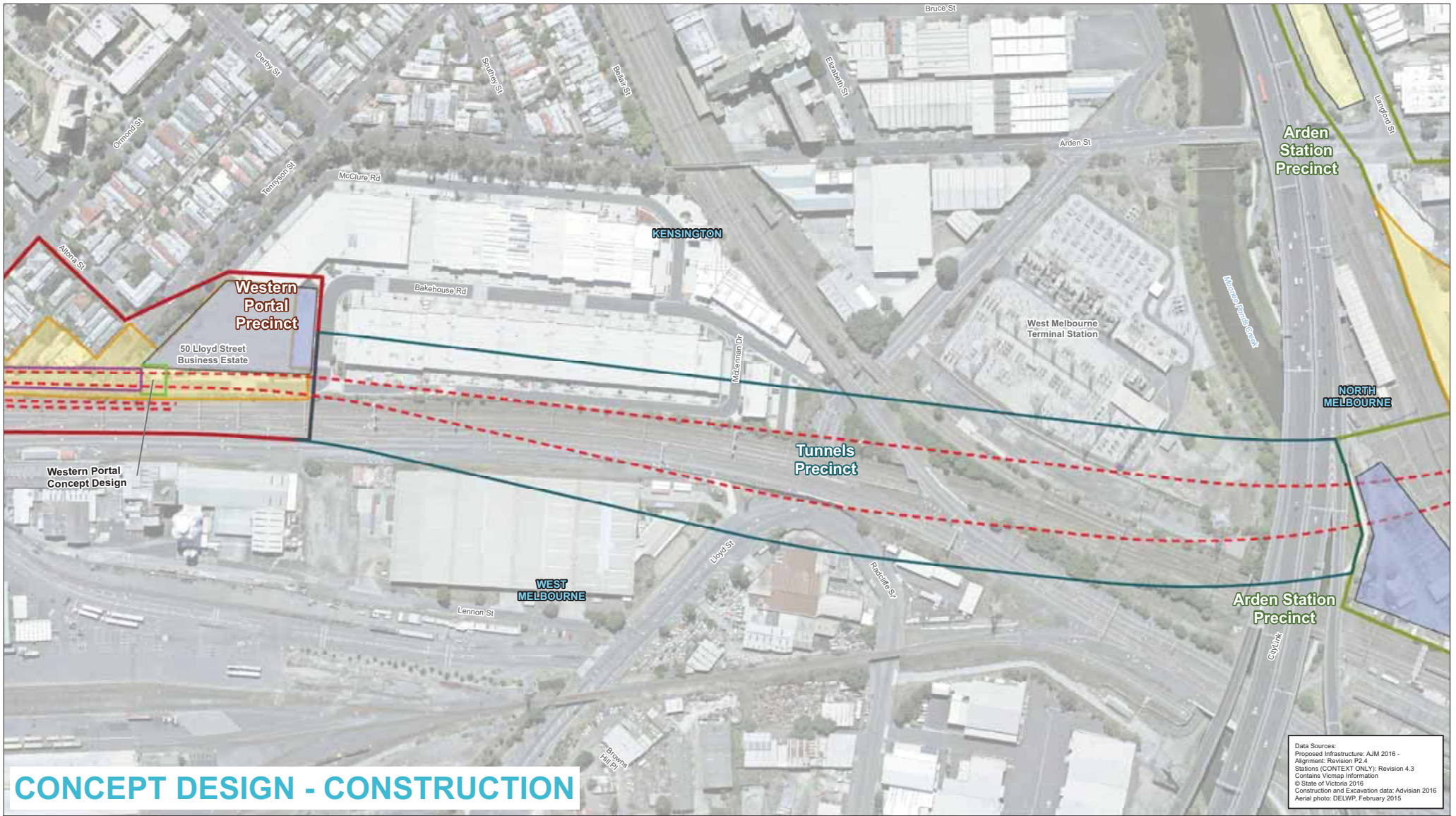
## Melbourne Metro Rail Project

Title: Environmental and Planning Precincts -  
 Operation / Post Construction  
 Map 1A - Alternative Design Option

|                                              |                            |                         |
|----------------------------------------------|----------------------------|-------------------------|
| Drawing Number:<br>MMR-AJM-UGAA-MP-NN-500288 |                            | Drawing Revision:<br>C1 |
| Drawn By:<br>A. French                       | Approved By:<br>M. Tansley | Date:<br>20 April 2016  |

0 50 100  
Metres





|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Legend</b></p> <p><b>Proposed Concept Design</b></p> <ul style="list-style-type: none"> <li><span style="color: red;">- - -</span> Proposed rail alignment</li> <li><span style="color: purple;">—</span> Tunnel Cut and Cover (excavation)</li> <li><span style="color: green;">—</span> TBM Retrieval Box (excavation)</li> </ul> <p><b>Substations</b></p> <ul style="list-style-type: none"> <li><span style="background-color: yellow; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Electrical Substation Construction Site (Concept Design)</li> <li><span style="background-color: blue; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Electrical Substation Construction Site (3 Alternative Design Options)</li> </ul> |  | <p><b>Precinct Boundaries</b></p> <ul style="list-style-type: none"> <li><span style="border: 2px solid blue; display: inline-block; width: 15px; height: 10px;"></span> Tunnels Precinct</li> <li><span style="border: 2px solid green; display: inline-block; width: 15px; height: 10px;"></span> Station Precinct</li> <li><span style="border: 2px solid red; display: inline-block; width: 15px; height: 10px;"></span> Portal Precinct</li> </ul> |  | <p><span style="background-color: yellow; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Proposed temporary construction work site</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Note: Proposed footprint of construction areas is indicative only and may be subject to change

0 1 KM

**Melbourne Metro Rail Project**

**Title: Environmental and Planning Precincts - Construction**  
Map 2 of 15

Drawing Number: MMR-AJM-UGAA-MP-NN-500295      Drawing Revision: C1

|                     |                         |                     |
|---------------------|-------------------------|---------------------|
| Drawn By: A. Berman | Approved By: M. Tansley | Date: 20 April 2016 |
|---------------------|-------------------------|---------------------|

0 50 100 Metres





# CONCEPT DESIGN - OPERATION

Data Sources:  
 Proposed Infrastructure: AJM 2016 -  
 Alignment: Revision P2.4  
 Stations (CONTEXT ONLY): Revision 4.3;  
 Contains Vicmap Information © State of Victoria 2016;  
 Aerial photo: DELWP, February 2015

- Legend**
- Proposed Concept Design
  - Proposed Alignment Above
  - Proposed Alignment Below Ground
  - Substations
  - Electrical Substation Construction Site (Concept Design)
  - Electrical Substation Construction Site (3 Alternative Design Options)
  - Local Government Area



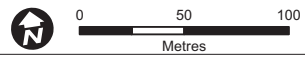
Note: Proposed footprint of post-construction structures is indicative only and may be subject to change



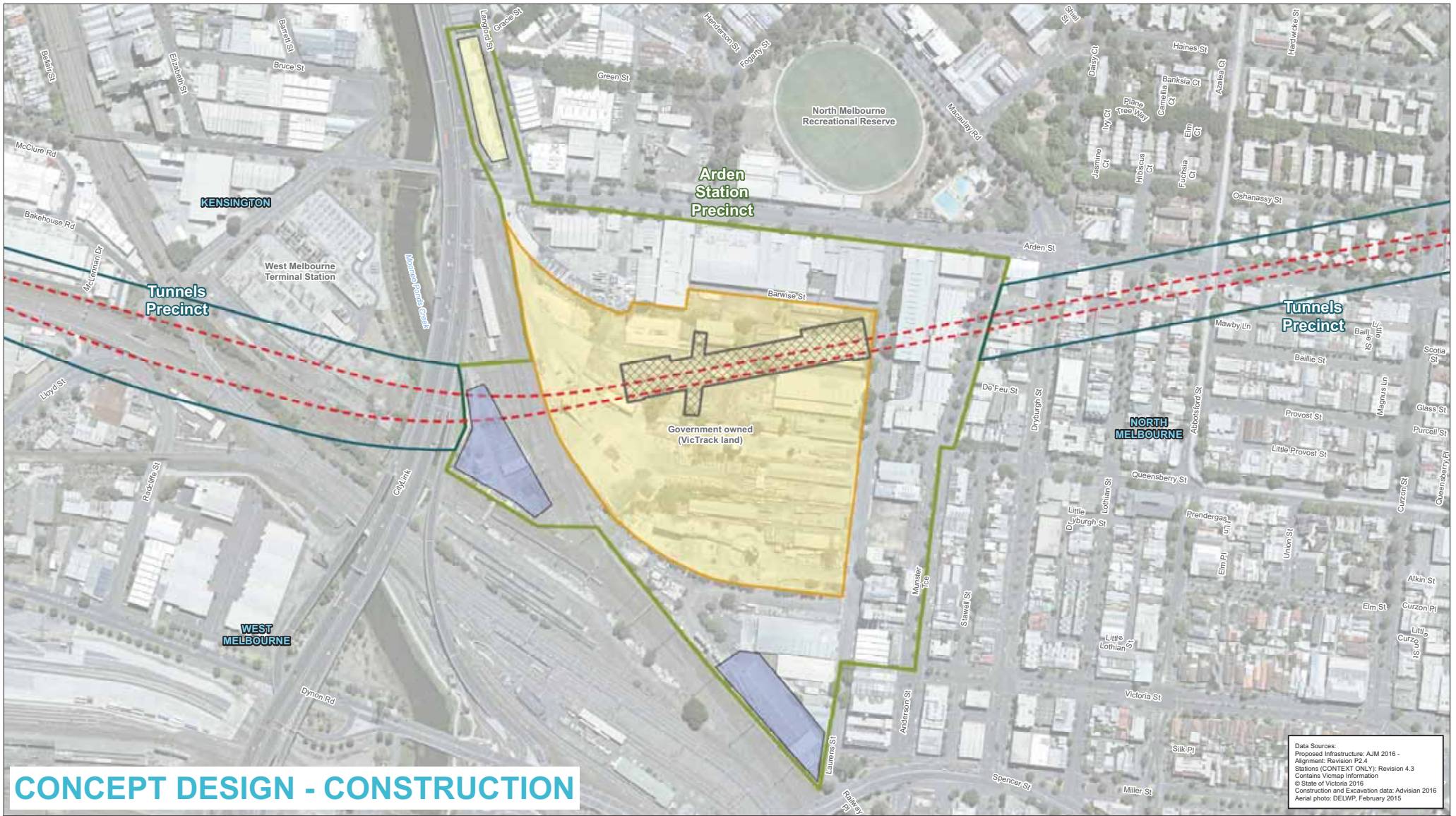
## Melbourne Metro Rail Project

Title: Environmental and Planning Precincts - Operation / Post Construction  
 Map 2 of 15

|                                              |                            |
|----------------------------------------------|----------------------------|
| Drawing Number:<br>MMR-AJM-UGAA-MP-NN-500288 | Drawing Revision:<br>C1    |
| Drawn By:<br>A. French                       | Approved By:<br>M. Tansley |
| Date:<br>20 April 2016                       |                            |







# CONCEPT DESIGN - CONSTRUCTION

Data Sources:  
 Proposed Infrastructure: AJM 2016 - Alignment: Revision P2.4  
 Stations (CONTEXT ONLY): Revision 4.3  
 Contains Vicmap Information  
 © State of Victoria 2016  
 Construction and Excavation data: Advisian 2016  
 Aerial photo: DELWP, February 2015

- Legend**
- Proposed Concept Design**
- Proposed rail alignment
- Substations**
- Electrical Substation Construction Site (Concept Design)
  - Electrical Substation Construction Site (3 Alternative Design Options)
- Precinct Boundaries**
- Tunnels Precinct
  - Station Precinct
- Construction Areas**
- Proposed temporary construction work site
  - Proposed excavation area - from surface

Note: Proposed footprint of construction areas is indicative only and may be subject to change

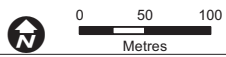


## Melbourne Metro Rail Project

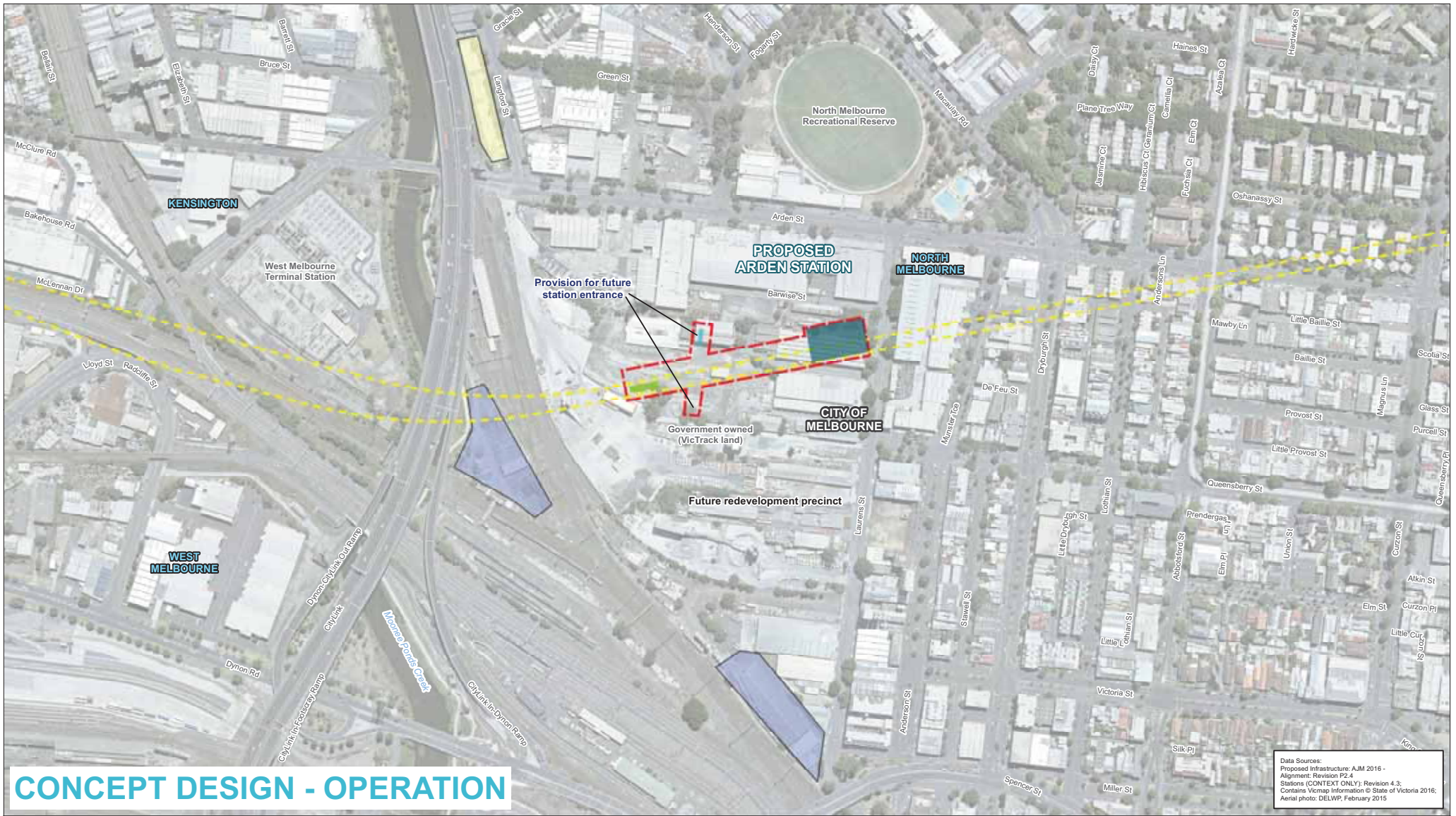
Title: Environmental and Planning Precincts - Construction  
 Map 3 of 15

Drawing Number: MMR-AJM-UGAA-MP-NN-500295  
 Drawing Revision: C1

Drawn By: A. Berman  
 Approved By: M. Tansley  
 Date: 20 April 2016







# CONCEPT DESIGN - OPERATION

Data Sources:  
 Proposed Infrastructure: AJM 2016 -  
 Alignment: Revision P2.4  
 Stations (CONTEXT ONLY): Revision 4.3;  
 Contains Vicmap Information © State of Victoria 2016;  
 Aerial photo: DELWP, February 2015

- Legend**
- Proposed Concept Design**
    - Proposed Alignment Below
    - Proposed Station Below Ground (Indicative)
  - Substations**
    - Electrical Substation Construction Site (Concept Design)
    - Electrical Substation Construction Site (3 Alternative Design Options)
  - Proposed Above Ground Structures**
    - Emergency Access
    - Station Entrance Structure
    - Ventilation Structure
  - Local Government

Note: Proposed footprint of post-construction structures is indicative only and may be subject to change



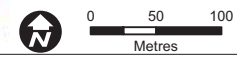
## Melbourne Metro Rail Project

### Title: Environmental and Planning Precincts - Operation / Post Construction

Map 3 of 15

Drawing Number: MMR-AJM-UGAA-MP-NN-500288  
 Drawing Revision: C1

Drawn By: A. French  
 Approved By: M. Tansley  
 Date: 20 April 2016







# CONCEPT DESIGN - CONSTRUCTION

Data Sources:  
 Proposed Infrastructure: AJM 2016 -  
 Alignment: Revision P2.4  
 Stations (CONTEXT ONLY): Revision 4.3  
 Contains Vicmap Information  
 © State of Victoria 2016  
 Construction and Excavation data: Advisian 2016  
 Aerial photo: DELWP, February 2015

- Legend**
- Proposed Concept Design**
  - Precinct Boundaries**
  - Proposed rail alignment
  - ▭ Tunnels Precinct
  - ▭ Station Precinct

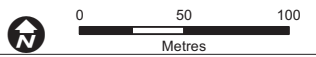
Note: Proposed footprint of construction areas is indicative only and may be subject to change



## Melbourne Metro Rail Project

Title: Environmental and Planning Precincts - Construction  
 Map 4 of 15

|                                              |                            |
|----------------------------------------------|----------------------------|
| Drawing Number:<br>MMR-AJM-UGAA-MP-NN-500295 | Drawing Revision:<br>C1    |
| Drawn By:<br>A. Berman                       | Approved By:<br>M. Tansley |
| Date:<br>20 April 2016                       |                            |







# CONCEPT DESIGN - OPERATION

Data Sources:  
 Proposed Infrastructure: AJM 2016 -  
 Alignment: Revision P2.4  
 Stations (CONTEXT ONLY): Revision 4.3;  
 Contains Vicmap Information © State of Victoria 2016;  
 Aerial photo: DELWP, February 2015

- Legend**
- Proposed Concept Design
  - Local Government
  - Proposed Alignment Below



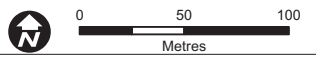
Note: Proposed footprint of post-construction structures is indicative only and may be subject to change



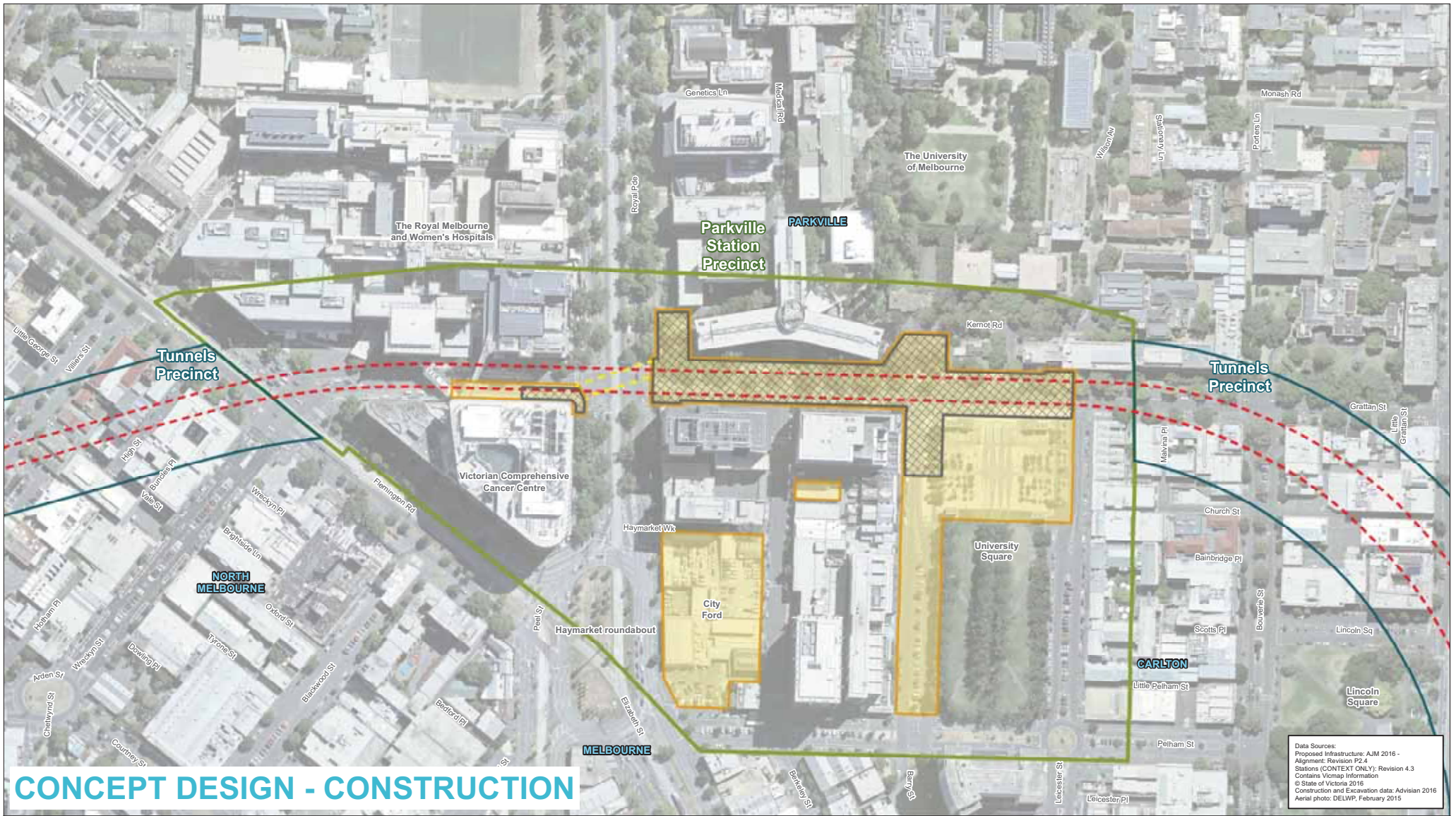
## Melbourne Metro Rail Project

Title: Environmental and Planning Precincts - Operation / Post Construction  
 Map 4 of 15

|                                              |                            |
|----------------------------------------------|----------------------------|
| Drawing Number:<br>MMR-AJM-UGAA-MP-NN-500288 | Drawing Revision:<br>C1    |
| Drawn By:<br>A. French                       | Approved By:<br>M. Tansley |
| Date:<br>20 April 2016                       |                            |







# CONCEPT DESIGN - CONSTRUCTION

Data Sources:  
 Proposed Infrastructure: AJM 2016 - Alignment: Revision P2.4  
 Stations (CONTEXT ONLY): Revision 4.3  
 Contains Vicmap Information  
 © State of Victoria 2016  
 Construction and Excavation data: Advision 2016  
 Aerial photo: DELWP, February 2015

- Legend**
- Proposed Concept Design**
    - Proposed rail alignment
  - Precinct Boundaries**
    - Tunnels Precinct
    - Station Precinct
  - Proposed temporary construction work site
  - Proposed excavation area - from surface
  - Proposed sub-surface excavation

Note: Proposed footprint of construction areas is indicative only and may be subject to change

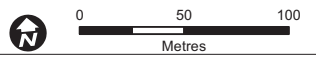


## Melbourne Metro Rail Project

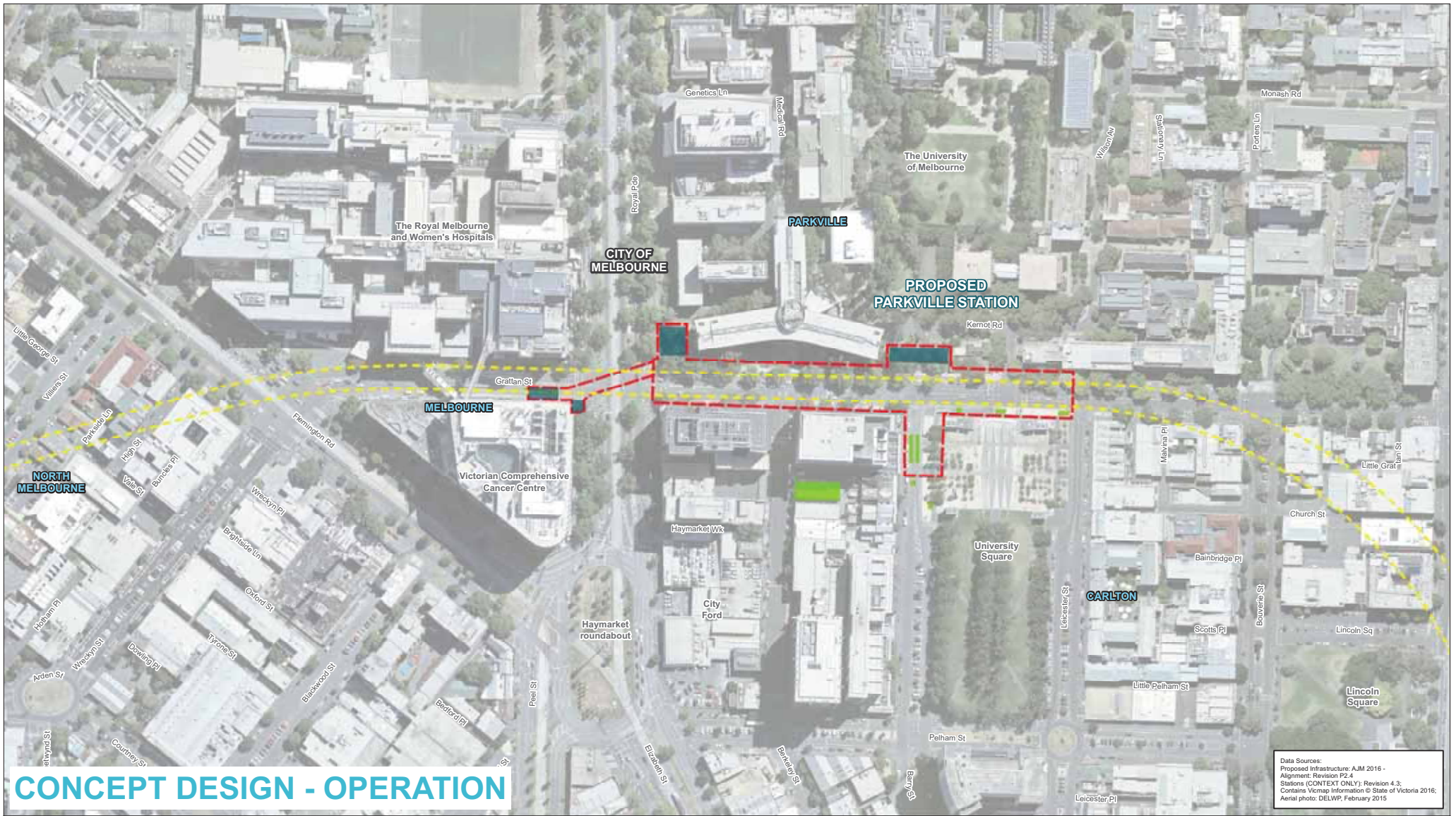
Title: Environmental and Planning Precincts - Construction  
 Map 5 of 15

Drawing Number: MMR-AJM-UGAA-MP-NN-500295  
 Drawing Revision: C1

Drawn By: A. Berman  
 Approved By: M. Tansley  
 Date: 20 April 2016





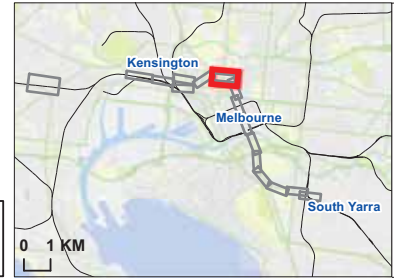


# CONCEPT DESIGN - OPERATION

Data Sources:  
 Proposed Infrastructure: AJM 2016 -  
 Alignment: Revision P2.4  
 Stations (CONTEXT ONLY): Revision 4.3;  
 Contains Vicmap Information © State of Victoria 2016;  
 Aerial photo: DELWP, February 2015

- Legend**
- Proposed Concept Design**
    - Proposed Alignment Below Ground
    - Proposed Station Below Ground (Indicative)
  - Proposed Above Ground Structures**
    - Station Entrance Structure
    - Ventilation Structure
  - Local Government Area

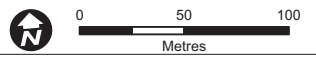
Note: Proposed footprint of post-construction structures is indicative only and may be subject to change



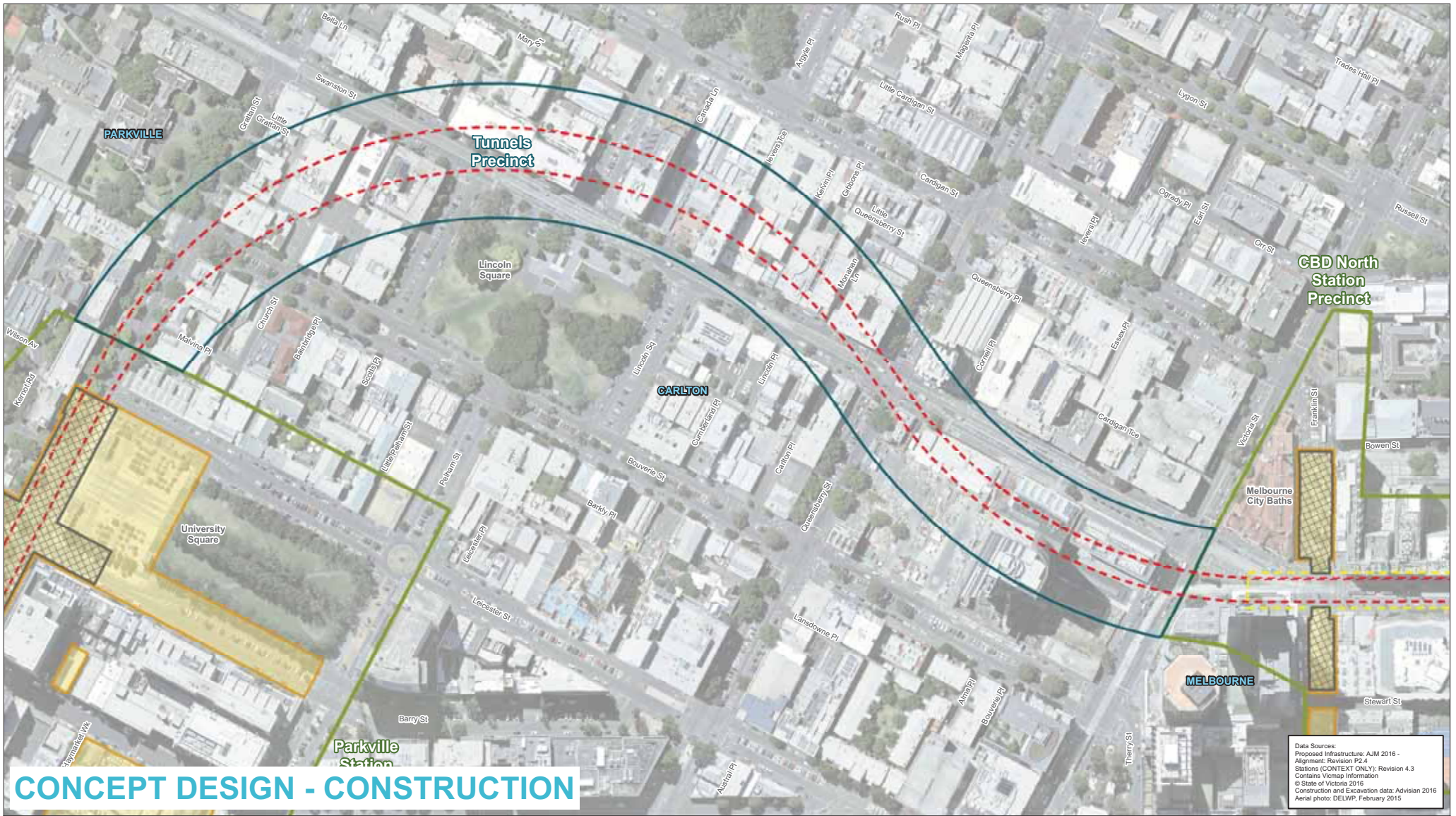
## Melbourne Metro Rail Project

Title: Environmental and Planning Precincts - Operation / Post Construction  
 Map 5 of 15

|                                              |                            |
|----------------------------------------------|----------------------------|
| Drawing Number:<br>MMR-AJM-UGAA-MP-NN-500288 | Drawing Revision:<br>C1    |
| Drawn By:<br>A. French                       | Approved By:<br>M. Tansley |
| Date:<br>20 April 2016                       |                            |







Data Sources:  
 Proposed Infrastructure: AJM 2016 -  
 Alignment: Revision P2.4  
 Stations (CONTEXT ONLY): Revision 4.3  
 Contains Vicmap Information  
 © State of Victoria 2016  
 Construction and Excavation data: Advision 2016  
 Aerial photo: DELWP, February 2015

- Legend**
- Proposed Concept Design**
    - Proposed rail alignment
  - Precinct Boundaries**
    - Tunnels Precinct
    - Station Precinct
  - Proposed temporary construction work site
  - Proposed excavation area - from surface
  - Proposed sub-surface excavation

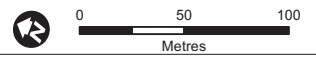
Note: Proposed footprint of construction areas is indicative only and may be subject to change



### Melbourne Metro Rail Project

Title: Environmental and Planning Precincts - Construction  
 Map 6 of 15

|                                              |                            |
|----------------------------------------------|----------------------------|
| Drawing Number:<br>MMR-AJM-UGAA-MP-NN-500295 | Drawing Revision:<br>C1    |
| Drawn By:<br>A. Berman                       | Approved By:<br>M. Tansley |
| Date:<br>20 April 2016                       |                            |







# CONCEPT DESIGN - OPERATION

Data Sources:  
 Proposed Infrastructure: AJM 2016 -  
 Alignment: Revision P2.4  
 Stations (CONTEXT ONLY): Revision 4.3;  
 Contains Vicmap Information © State of Victoria 2016;  
 Aerial photo: DELWP, February 2016

## Legend

### Proposed Concept Design

- - - Proposed Alignment Below Ground
- Proposed Station Below Ground (Indicative)

### Proposed Above Ground Structures

- Emergency Access Structure
- Station Entrance Structure
- Ventilation Structure

  Local Government Area

Note: Proposed footprint of post-construction structures is indicative only and may be subject to change



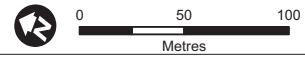
## Melbourne Metro Rail Project

Title: Environmental and Planning Precincts - Operation / Post Construction

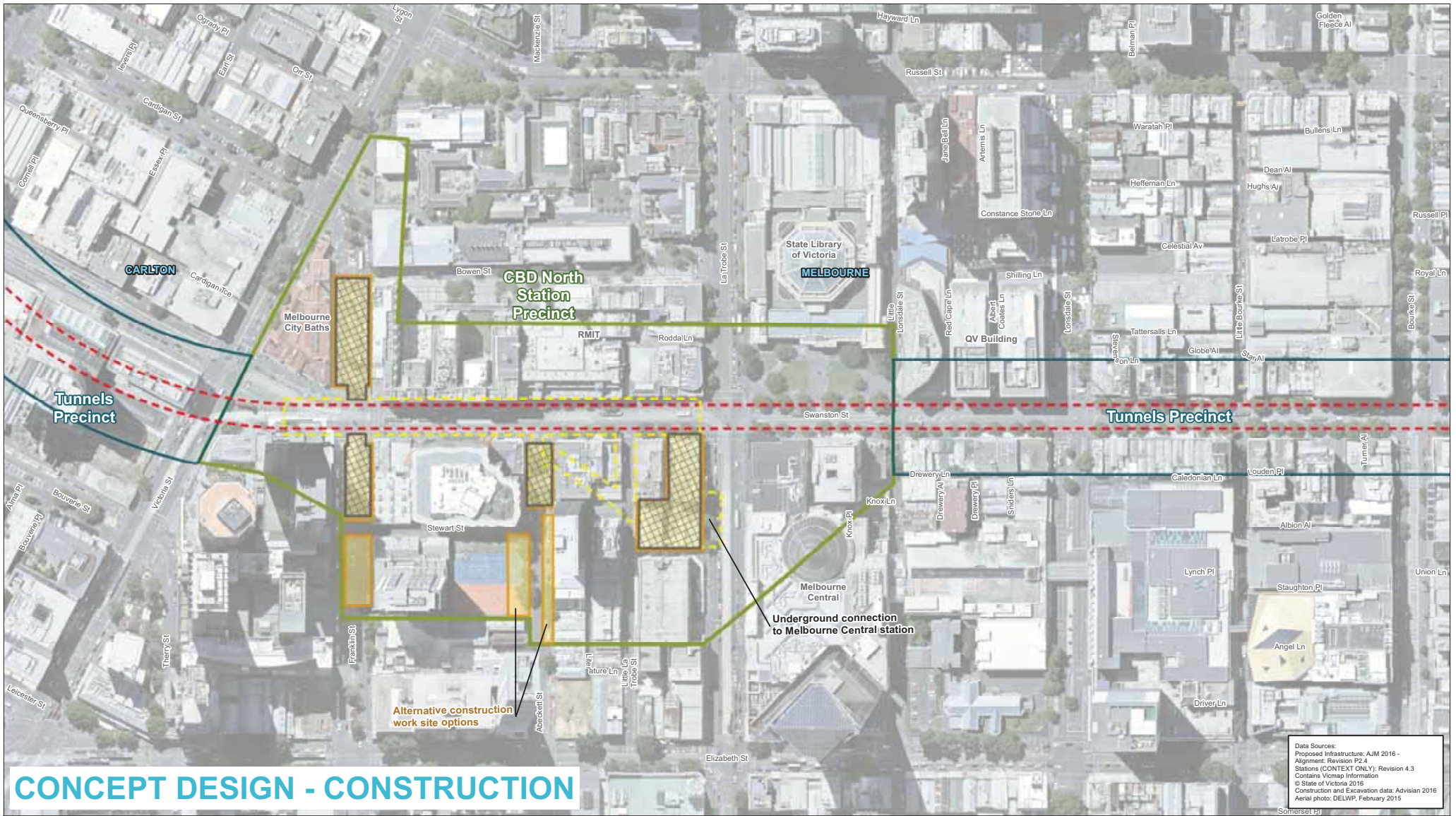
Map 6 of 15

Drawing Number: MMR-AJM-UGAA-MP-NN-500288 Drawing Revision: C1

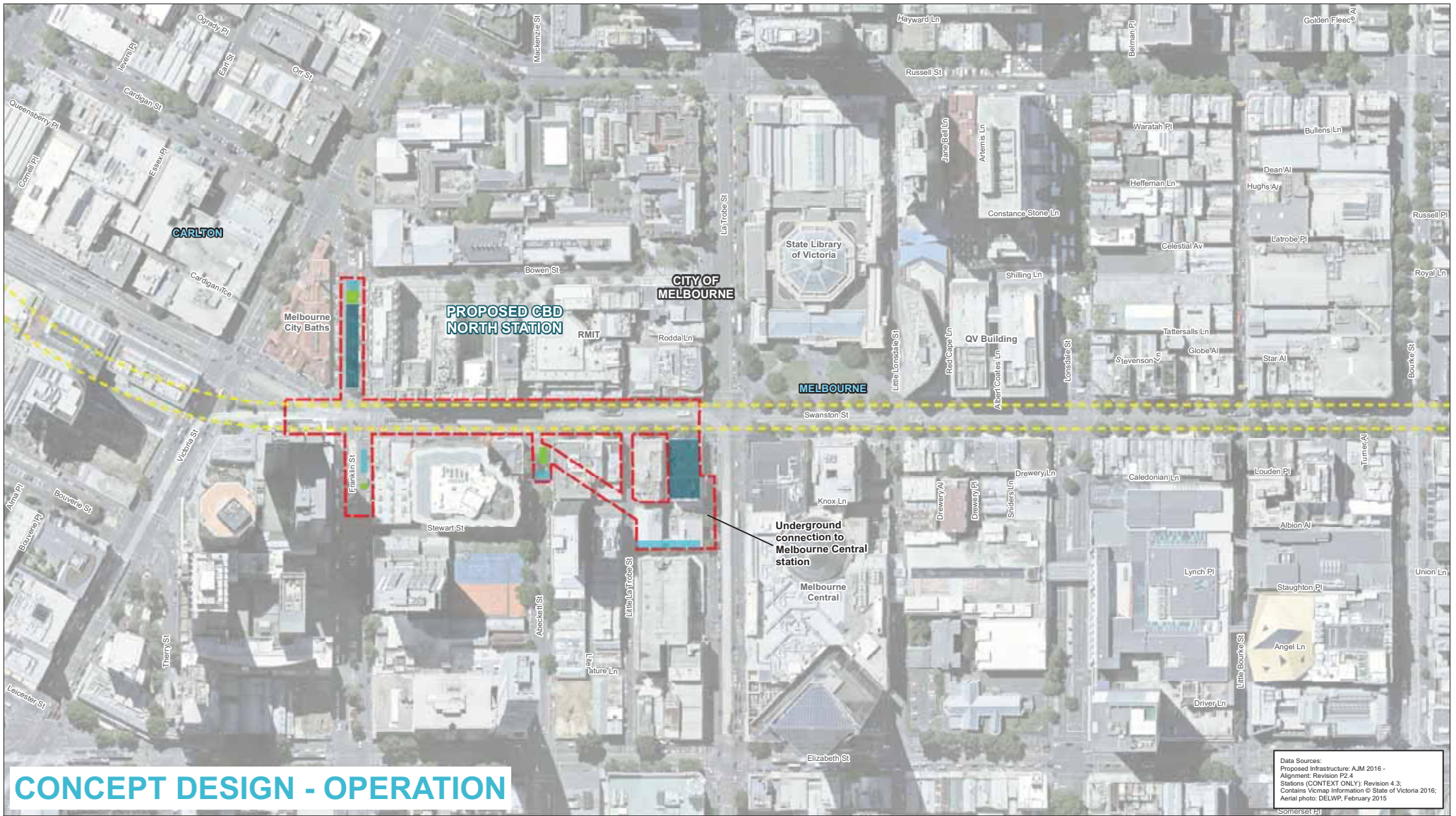
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|------------------------|----------------------------|------------------------|
| Drawn By:<br>A. French | Approved By:<br>M. Tansley | Date:<br>20 April 2016 |
|------------------------|----------------------------|------------------------|







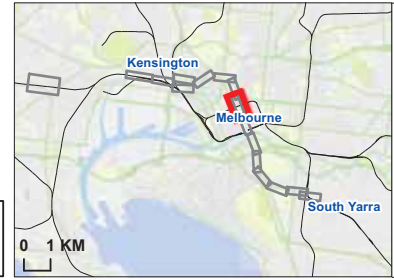




# CONCEPT DESIGN - OPERATION

Data Sources:  
 Proposed Infrastructure: AJM 2016 -  
 Alignment: Revision P2.4  
 Stations (CONTEXT ONLY): Revision 4.3;  
 Contains Vicmap Information © State of Victoria 2016;  
 Aerial photo: DELWP, February 2015

- Legend**
- Proposed Concept Design
    - Proposed Alignment Below Ground
    - Proposed Station Below Ground (Indicative)
  - Proposed Above Ground Structures
    - Emergency Access Structure
    - Station Entrance Structure
    - Ventilation Structure
  - Local Government Area



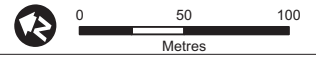
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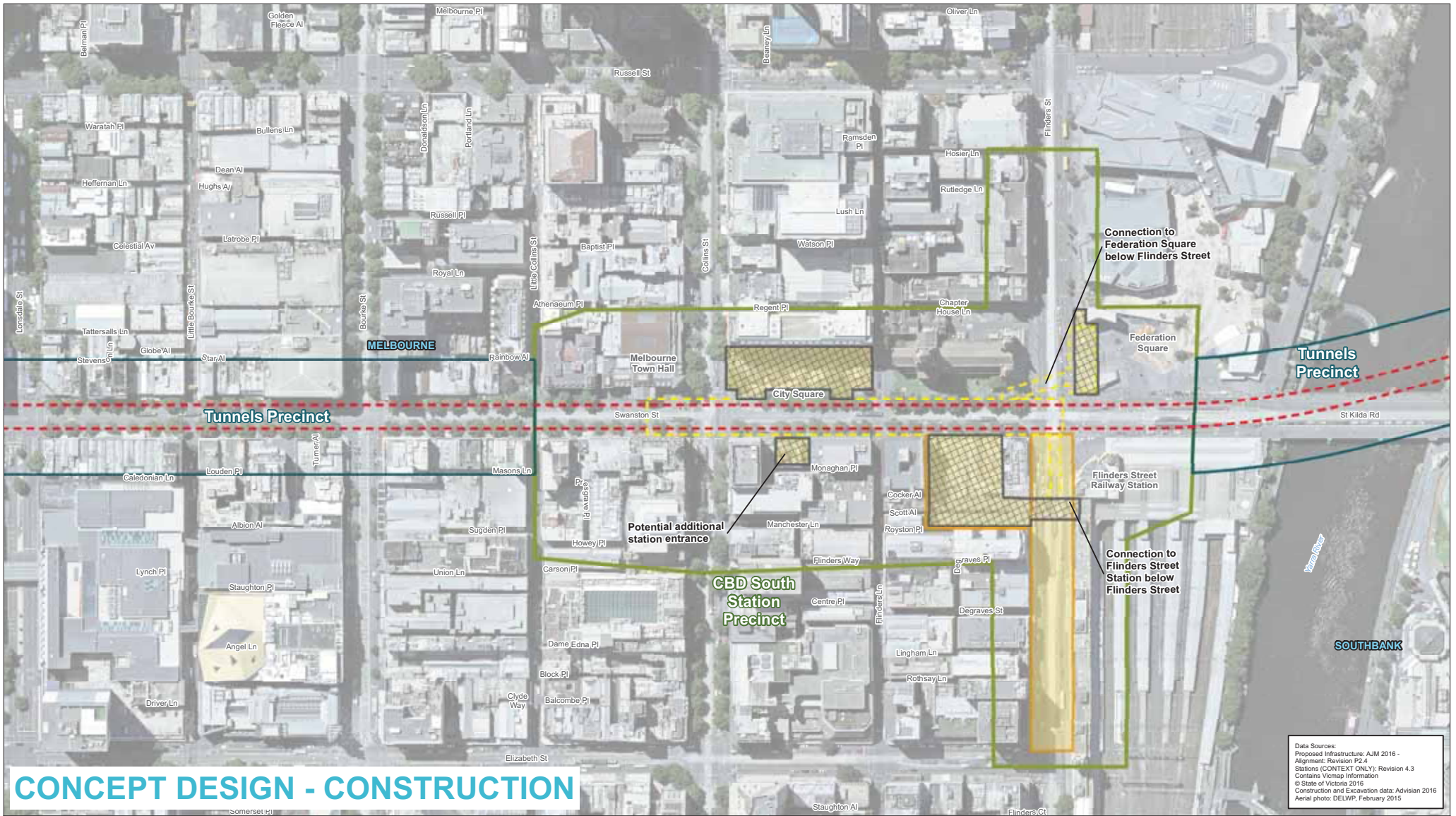
## Melbourne Metro Rail Project

Title: Environmental and Planning Precincts - Operation / Post Construction  
 Map 7 of 15

|                                              |                            |
|----------------------------------------------|----------------------------|
| Drawing Number:<br>MMR-AJM-UGAA-MP-NN-500288 | Drawing Revision:<br>C1    |
| Drawn By:<br>A. French                       | Approved By:<br>M. Tansley |
| Date:<br>20 April 2016                       |                            |







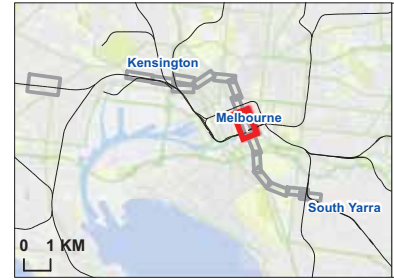
# CONCEPT DESIGN - CONSTRUCTION

Data Sources:  
 Proposed Infrastructure: AJM 2016 - Alignment: Revision P2.4  
 Stations (CONTEXT ONLY): Revision 4.3  
 Contains Vicmap Information  
 © State of Victoria 2016  
 Construction and Excavation data: Advision 2016  
 Aerial photo: DELWP, February 2015

- Legend**
- Proposed Concept Design**
  - Precinct Boundaries**
  - Proposed temporary construction work site**
  - Proposed excavation area - from surface**
  - Proposed sub-surface excavation**

- Proposed rail alignment
- Tunnels Precinct
- Station Precinct

Note: Proposed footprint of construction areas is indicative only and may be subject to change

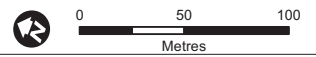


## Melbourne Metro Rail Project

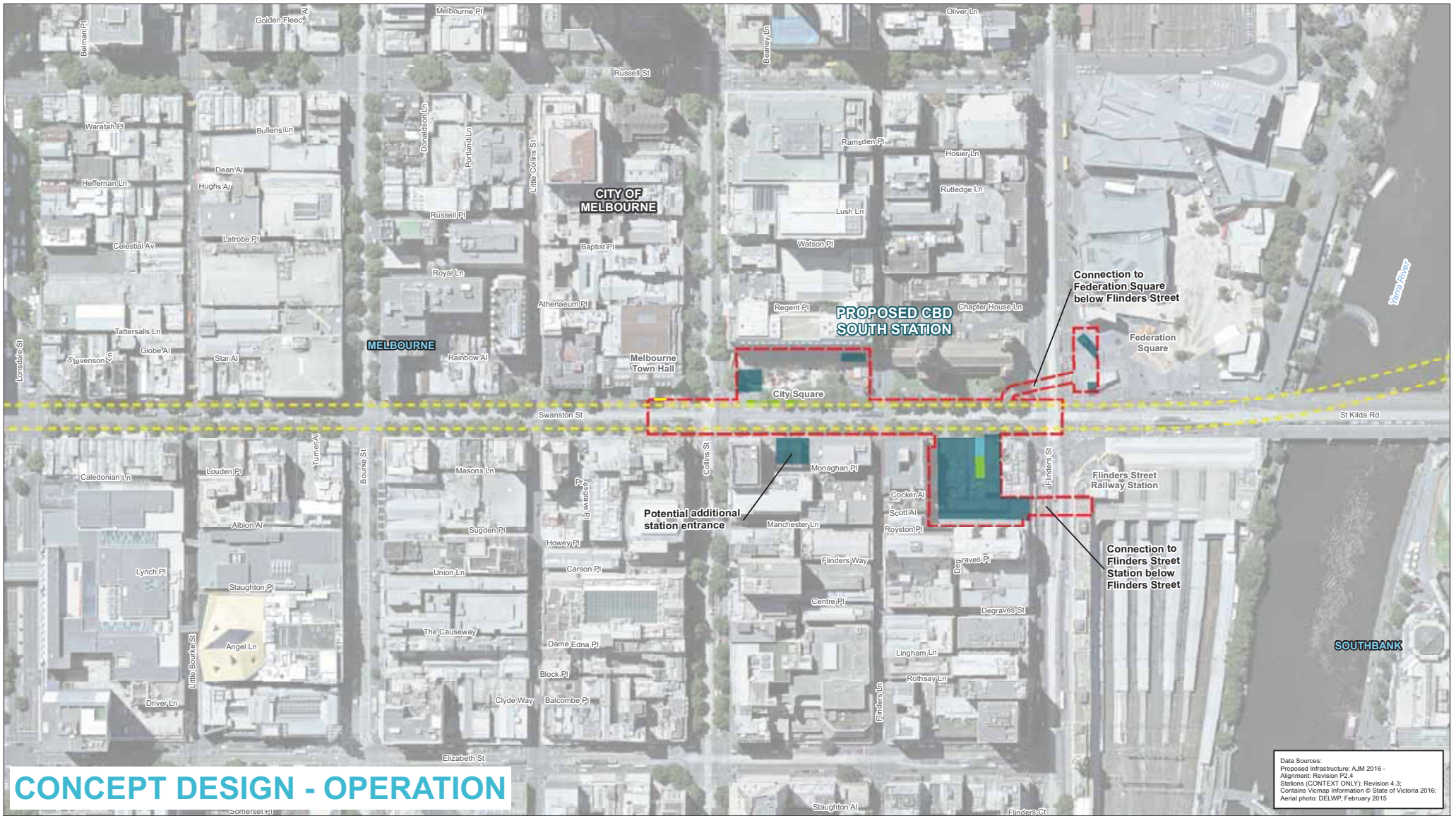
Title: Environmental and Planning Precincts - Construction  
 Map 8 of 15

Drawing Number: MMR-AJM-UGAA-MP-NN-500295  
 Drawing Revision: C1

Drawn By: A. Berman  
 Approved By: M. Tansley  
 Date: 20 April 2016





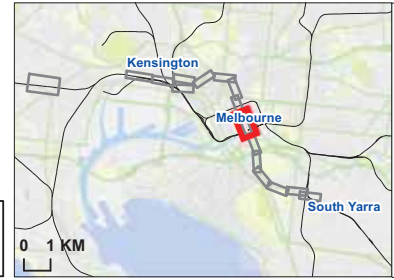


# CONCEPT DESIGN - OPERATION

Data Sources:  
 Proposed Infrastructure: AJM 2016 - Alignment; Revision P2.4  
 Stations (CONTEXT ONLY); Revision 4.3;  
 Contains Vicmap Information © State of Victoria 2016;  
 Aerial photo: DELWP, February 2015

- Legend**
- Proposed Concept Design**
    - Proposed Alignment Below Ground
    - Proposed Station Below Ground (Indicative)
  - Proposed Above Ground Structures**
    - Emergency Access Structure
    - Station Entrance Structure
    - Ventilation Structure
  - Local Government Area

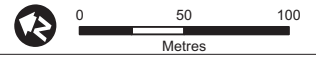
Note: Proposed footprint of post-construction structures is indicative only and may be subject to change



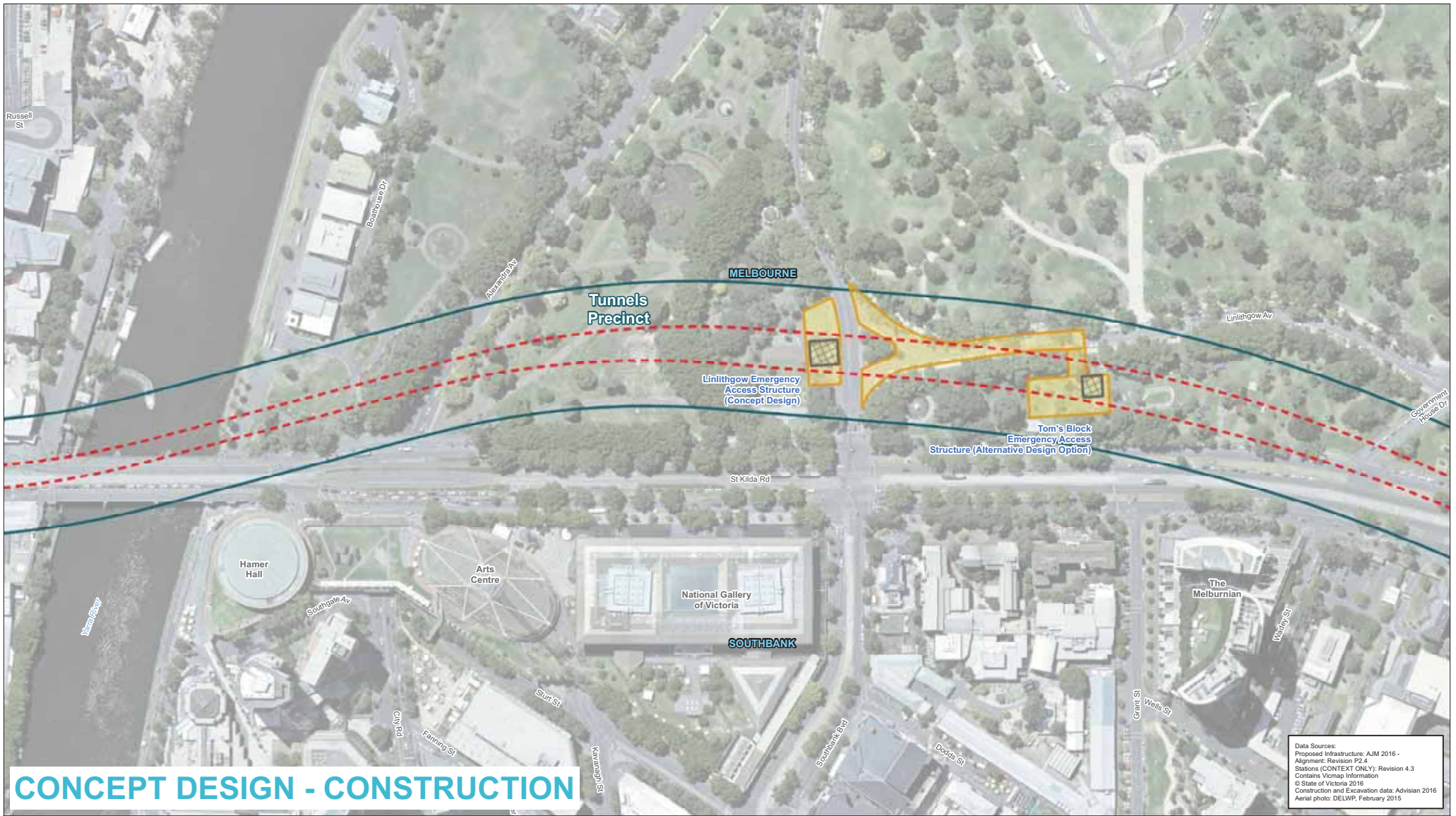
## Melbourne Metro Rail Project

Title: Environmental and Planning Precincts - Operation / Post Construction  
 Map 8 of 15

|                                              |                            |
|----------------------------------------------|----------------------------|
| Drawing Number:<br>MMR-AJM-UGAA-MP-NN-500288 | Drawing Revision:<br>C1    |
| Drawn By:<br>A. French                       | Approved By:<br>M. Tansley |
| Date:<br>20 April 2016                       |                            |



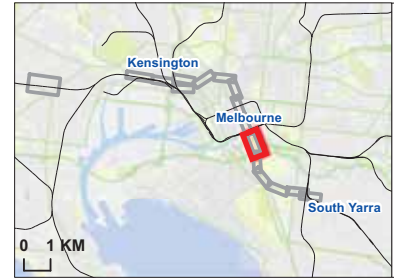




# CONCEPT DESIGN - CONSTRUCTION

Data Sources:  
 Proposed Infrastructure: AJM 2016 - Alignment: Revision P2.4  
 Stations (CONTEXT ONLY): Revision 4.3  
 Contains Vicmap Information  
 © State of Victoria 2016  
 Construction and Excavation data: Advision 2016  
 Aerial photo: DELWP, February 2015

- Legend**
- - - Proposed rail alignment
  - Tunnels Precinct
  - Proposed temporary construction work site
  - Proposed excavation area - from surface



Note: Proposed footprint of construction areas is indicative only and may be subject to change

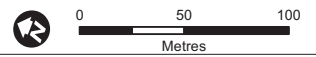


## Melbourne Metro Rail Project

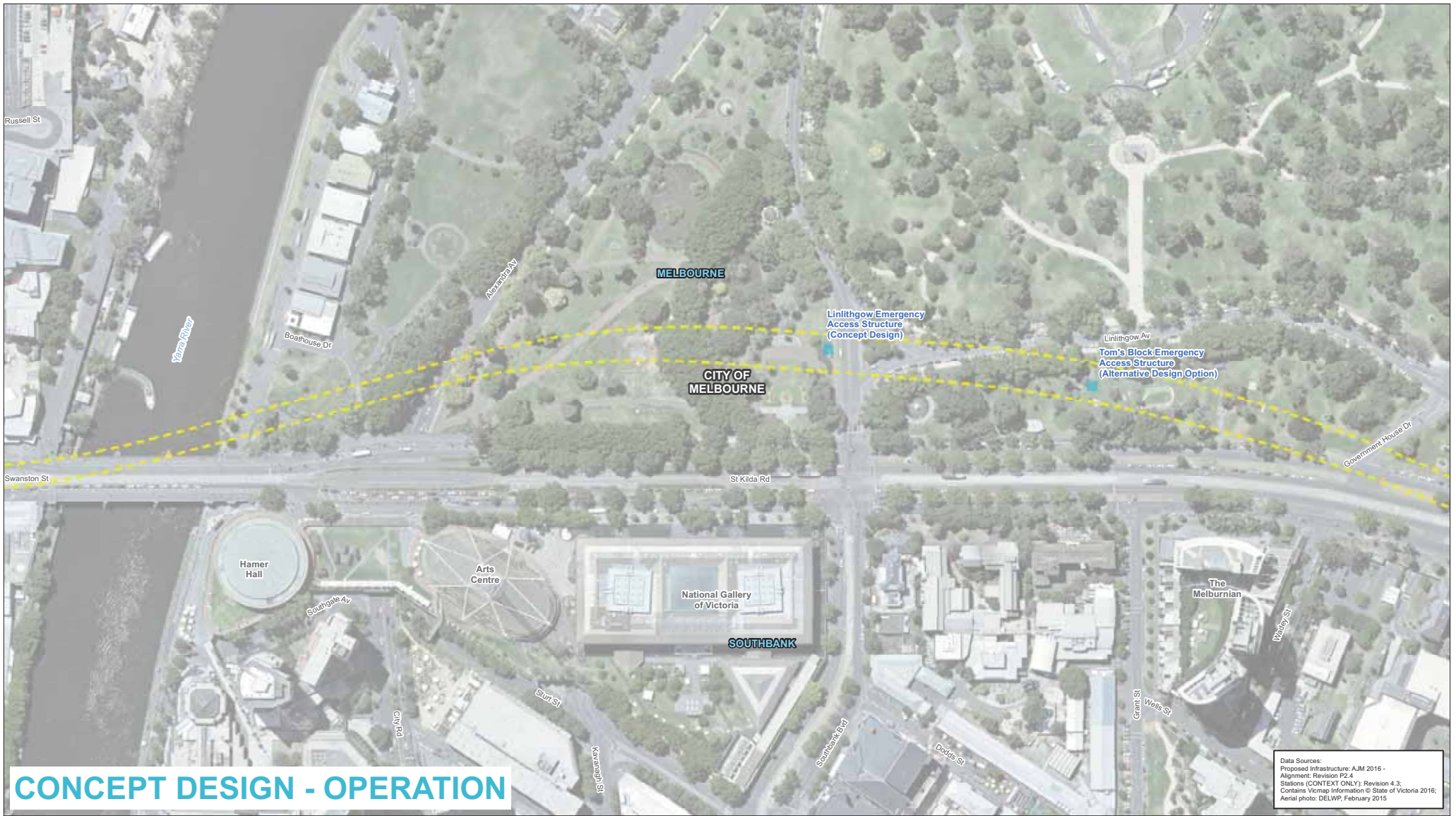
Title: Environmental and Planning Precincts - Construction  
 Map 9 of 15

Drawing Number: MMR-AJM-UGAA-MP-NN-500295  
 Drawing Revision: C1

|                        |                            |                        |
|------------------------|----------------------------|------------------------|
| Drawn By:<br>A. Berman | Approved By:<br>M. Tansley | Date:<br>20 April 2016 |
|------------------------|----------------------------|------------------------|







# CONCEPT DESIGN - OPERATION

Data Sources:  
 Proposed Infrastructure: AJM 2016 -  
 Alignment: Revision P2.4  
 Stations (CONTEXT ONLY): Revision 4.3;  
 Contains Vicmap Information © State of Victoria 2016;  
 Aerial photo: DELWP, February 2015

- Legend**
- - - Proposed Concept Design
  - - - Proposed Alignment Below Ground
  - Proposed Above Ground Structures
  - Emergency Access Structure
  - Local Government Area



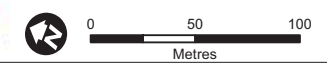
Note: Proposed footprint of post-construction structures is indicative only and may be subject to change



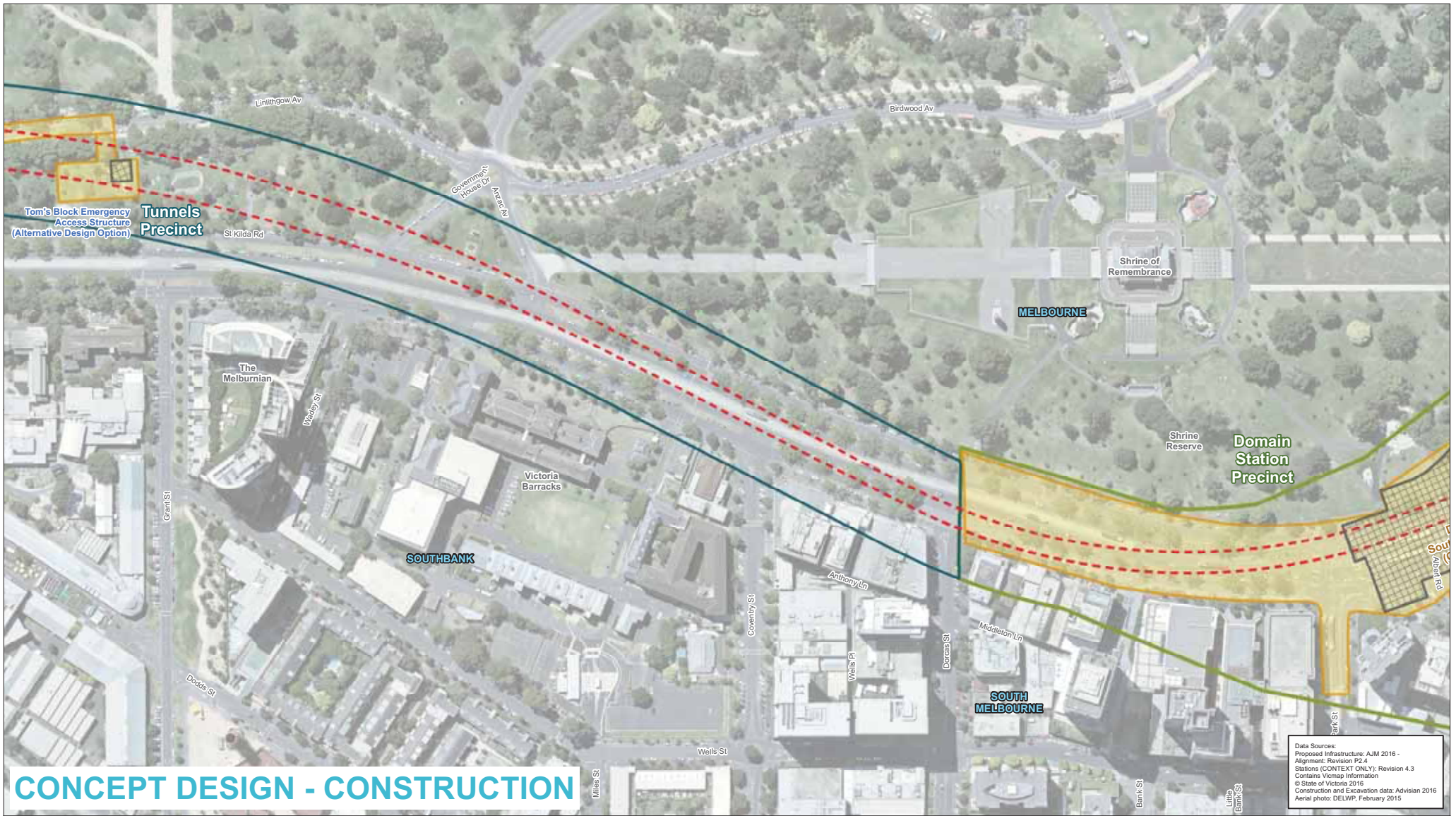
## Melbourne Metro Rail Project

Title: Environmental and Planning Precincts - Operation / Post Construction  
 Map 9 of 15

|                                              |                            |                         |  |
|----------------------------------------------|----------------------------|-------------------------|--|
| Drawing Number:<br>MMR-AJM-UGAA-MP-NN-500288 |                            | Drawing Revision:<br>C1 |  |
| Drawn By:<br>A. French                       | Approved By:<br>M. Tansley | Date:<br>20 April 2016  |  |







# CONCEPT DESIGN - CONSTRUCTION

Data Sources:  
 Proposed Infrastructure: AJM 2016 - Alignment: Revision P2.4  
 Stations (CONTEXT ONLY): Revision 4.3  
 Contains Vicmap Information  
 © State of Victoria 2016  
 Construction and Excavation data: Advision 2016  
 Aerial photo: DELWP, February 2015

- Legend**
- Proposed Concept Design**
    - Proposed rail alignment
  - Precinct Boundaries**
    - ▭ Tunnels Precinct
    - ▭ Station Precinct
  - ▭ Proposed temporary construction work site
  - ▨ Proposed excavation area - from surface

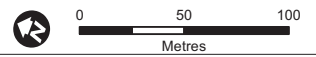
Note: Proposed footprint of construction area is indicative only and may be subject to change



## Melbourne Metro Rail Project

Title: Environmental and Planning Precincts - Construction  
 Map 10 of 15

|                                              |                            |                         |  |
|----------------------------------------------|----------------------------|-------------------------|--|
| Drawing Number:<br>MMR-AJM-UGAA-MP-NN-500295 |                            | Drawing Revision:<br>C1 |  |
| Drawn By:<br>A. Berman                       | Approved By:<br>M. Tansley | Date:<br>20 April 2016  |  |







# CONCEPT DESIGN - OPERATION

Data Sources:  
 Proposed Infrastructure: AJM 2016 -  
 Alignment: Revision P2.4  
 Stations (CONTEXT ONLY): Revision 4.3;  
 Contains Vicmap Information © State of Victoria 2016;  
 Aerial photo: DELWP, February 2015

**Legend**

**Proposed Concept Design**

- Proposed Alignment Below Ground
- Proposed Station Below Ground (Indicative)

**Proposed Above Ground Structures**

- Emergency Access Structure
- Station Entrance Structure
- Ventilation Structure

Local Government Area

Note: Proposed footprint of post-construction structures is indicative only and may be subject to change



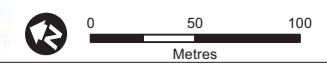
## Melbourne Metro Rail Project

Title: Environmental and Planning Precincts - Operation / Post Construction

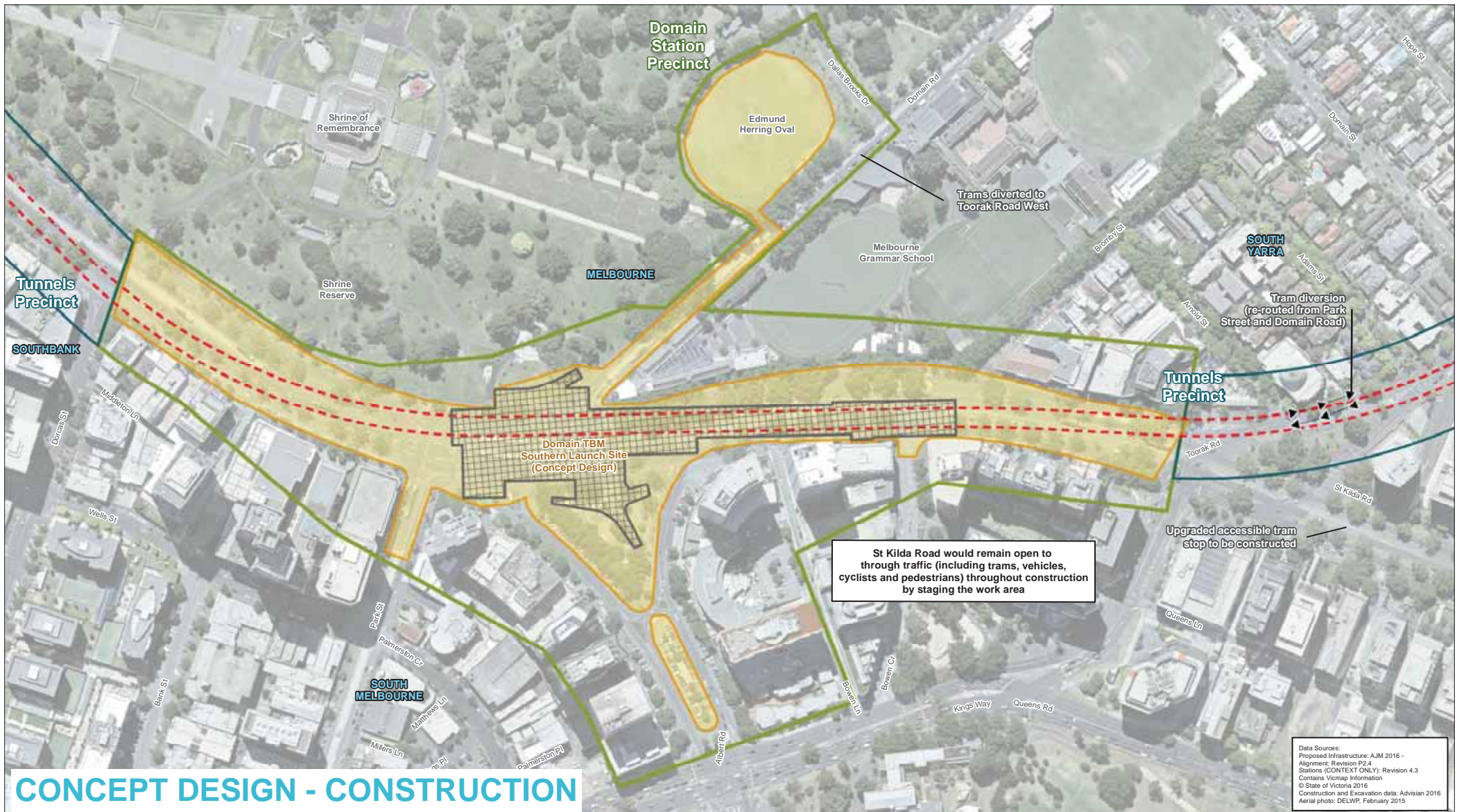
Map 10 of 15

Drawing Number: MMR-AJM-UGAA-MP-NN-500288  
 Drawing Revision: C1

Drawn By: A. French  
 Approved By: M. Tansley  
 Date: 20 April 2016







# CONCEPT DESIGN - CONSTRUCTION

- Legend**
- Proposed Concept Design**
    - Proposed rail alignment
  - Tram Diversion**
    - ▶▶▶▶
    - ◀◀◀◀
  - Precinct Boundaries**
    - Tunnels Precinct
    - Station Precinct
  - Proposed excavation area - from surface**
  - Proposed temporary construction work site**

Note: Proposed footprint of construction areas is indicative only and may be subject to change

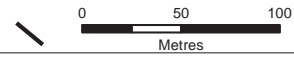


## Melbourne Metro Rail Project

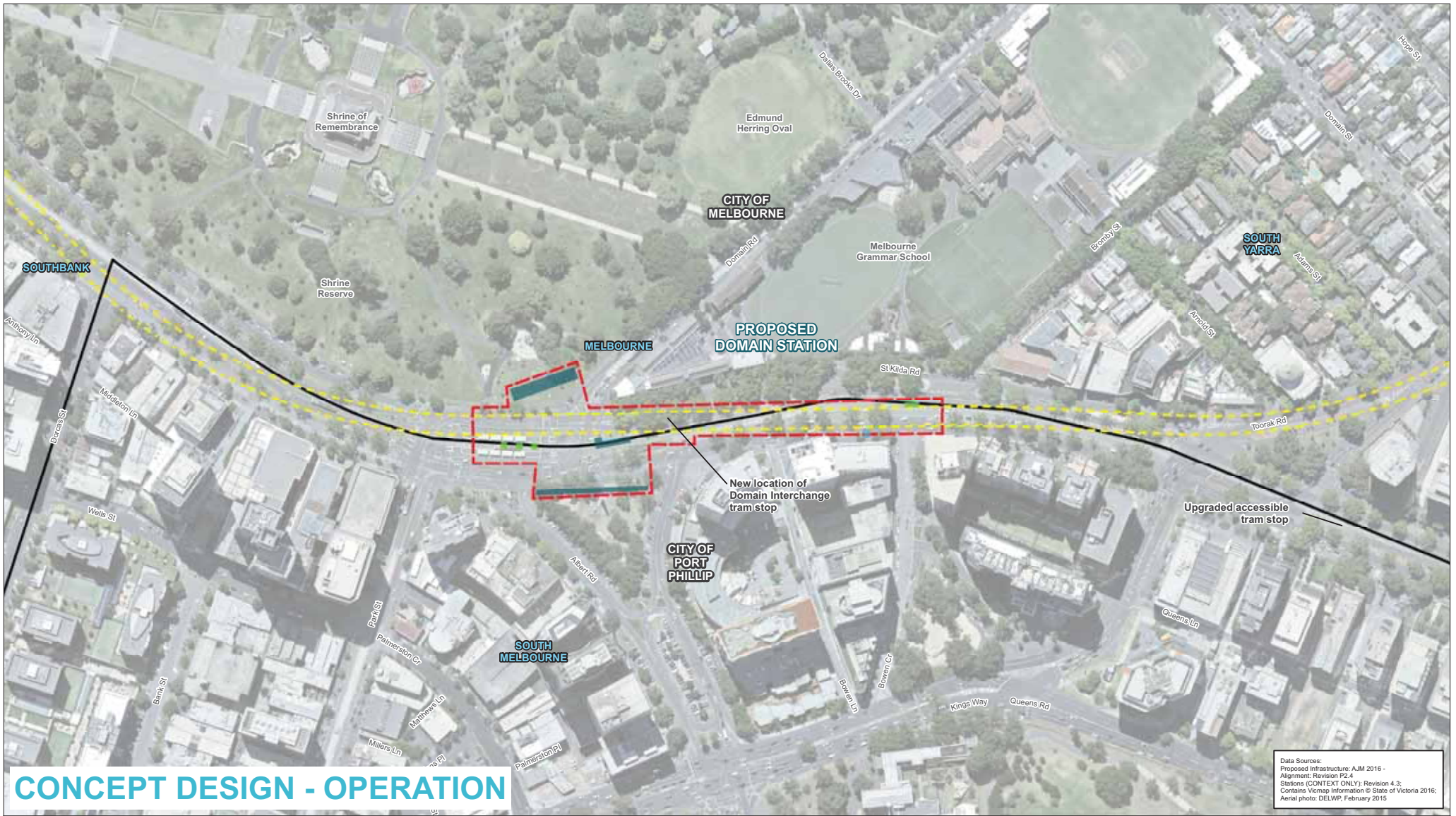
Title: **Environmental and Planning Precincts - Construction**  
 Map 11 of 15

Drawing Number: MMR-AJM-UGAA-MP-NN-500295  
 Drawing Revision: C1

Drawn By: A. Berman  
 Approved By: M. Tansley  
 Date: 20 April 2016







# CONCEPT DESIGN - OPERATION

Data Sources:  
 Proposed Infrastructure: AJM 2016 -  
 Alignment: Revision P2.4  
 Stations (CONTEXT ONLY): Revision 4.3;  
 Contains Vicmap Information © State of Victoria 2016;  
 Aerial photo: DELWP, February 2015

**Legend**

**Proposed Concept Design**

- Proposed Alignment Below Ground
- - - Proposed Station Below Ground (Indicative)

**Proposed Above Ground Structures**

- Emergency Access Structure
- Station Entrance Structure
- Ventilation Structure

Local Government Area

Note: Proposed footprint of post-construction structures is indicative only and may be subject to change

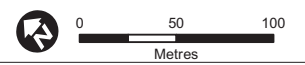


## Melbourne Metro Rail Project

Title: Environmental and Planning Precincts - Operation / Post Construction

Map 11 of 15

|                                              |                            |                         |  |
|----------------------------------------------|----------------------------|-------------------------|--|
| Drawing Number:<br>MMR-AJM-UGAA-MP-NN-500288 |                            | Drawing Revision:<br>C1 |  |
| Drawn By:<br>A. French                       | Approved By:<br>M. Tansley | Date:<br>20 April 2016  |  |







Data Sources:  
 Proposed Infrastructure: AJM 2016 -  
 Alignment: Revision P2.4  
 Stations (CONTEXT ONLY): Revision 4.3  
 Contains Vicmap Information  
 © State of Victoria 2016  
 Construction and Excavation data: Advisian 2016  
 Aerial photo: DELWP, February 2015

- Legend**
- Proposed Concept Design**
  - Proposed rail alignment
  - Tram Diversion**
  - ▶▶▶▶
  - ◀◀◀◀
  - Precinct Boundaries**
  - ▭ Tunnels Precinct
  - ▭ Station Precinct
  - ▭ Proposed temporary construction work site
  - ▭ Proposed excavation area - from surface

Note: Proposed footprint of construction areas is indicative only and may be subject to change

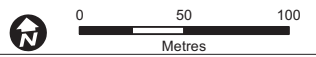


## Melbourne Metro Rail Project

Title: Environmental and Planning Precincts - Construction  
 Map 12 of 15

Drawing Number: MMR-AJM-UGAA-MP-NN-500295  
 Drawing Revision: C1

|                        |                            |                        |
|------------------------|----------------------------|------------------------|
| Drawn By:<br>A. Berman | Approved By:<br>M. Tansley | Date:<br>20 April 2016 |
|------------------------|----------------------------|------------------------|







# CONCEPT DESIGN - OPERATION

Data Sources:  
 Proposed Infrastructure: AJM 2016 -  
 Alignment: Revision P2.4  
 Stations (CONTEXT ONLY): Revision 4.3;  
 Contains Vicmap Information © State of Victoria 2016;  
 Aerial photo: DELWP, February 2015

- Legend**
- Proposed Concept Design
  - Proposed Alignment Below Ground
  - Proposed Above Ground Structures
  - Emergency Access Structure
  - Local Government Area



Note: Proposed footprint of post-construction structures is indicative only and may be subject to change



## Melbourne Metro Rail Project

Title: Environmental and Planning Precincts - Operation / Post Construction

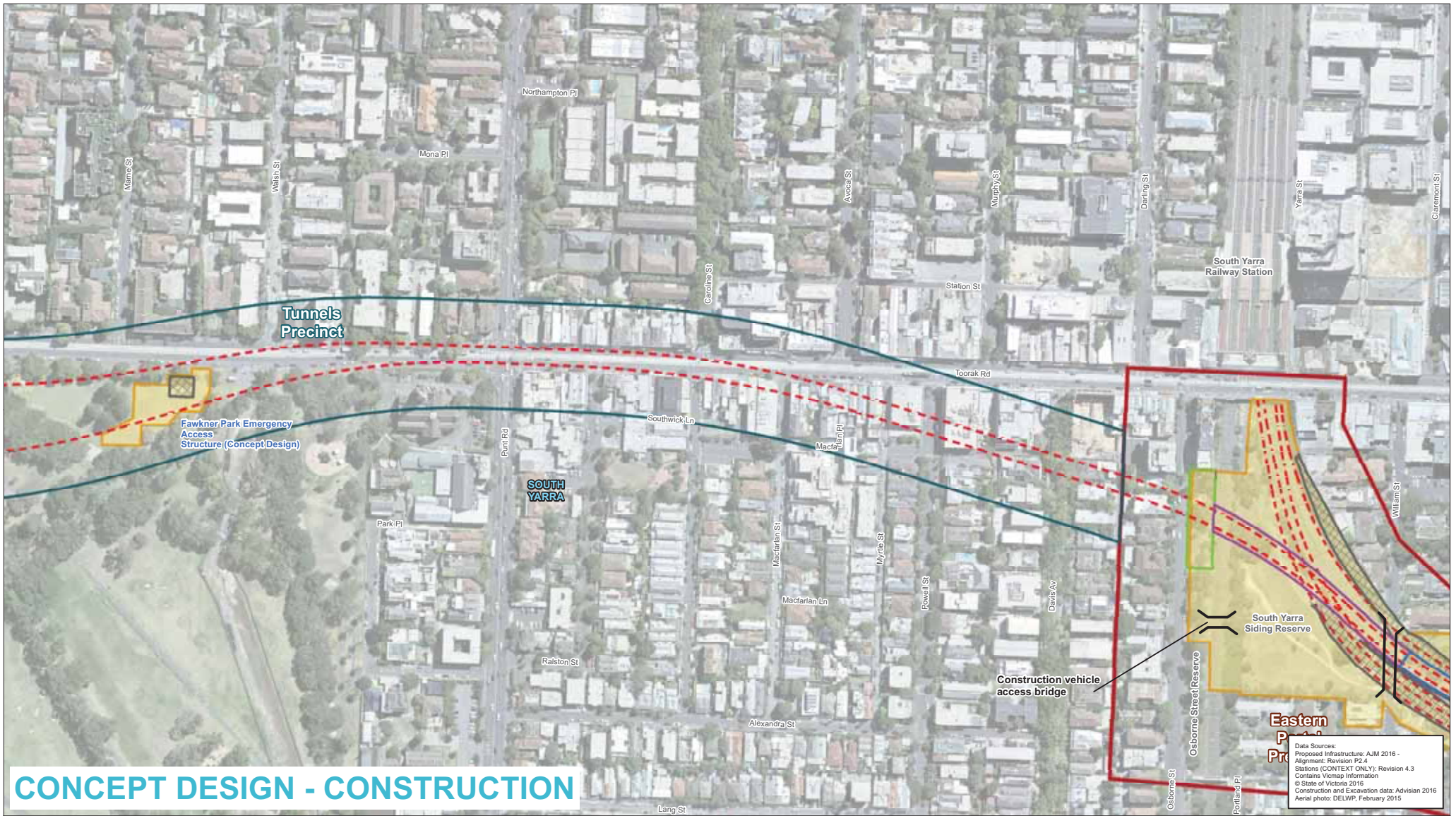
Map 12 of 15

Drawing Number: MMR-AJM-UGAA-MP-NN-500288  
 Drawing Revision: C1

|                        |                            |                        |
|------------------------|----------------------------|------------------------|
| Drawn By:<br>A. French | Approved By:<br>M. Tansley | Date:<br>20 April 2016 |
|------------------------|----------------------------|------------------------|







Data Sources:  
 Proposed Infrastructure: AJM 2016 - Alignment: Revision P2.4  
 Stations (CONTEXT ONLY): Revision 4.3  
 Contains Vicmap Information  
 © State of Victoria 2016  
 Construction and Excavation data: Advision 2016  
 Aerial photo: DELWP, February 2015

**Legend**

|                                   |                            |                                           |
|-----------------------------------|----------------------------|-------------------------------------------|
| <b>Proposed Concept Design</b>    | <b>Precinct Boundaries</b> | Proposed temporary construction work site |
| Proposed rail alignment           | Tunnels Precinct           | Proposed excavation area - from surface   |
| Decline Structure (excavation)    | Portal Precinct            |                                           |
| Tunnel Cut and Cover (excavation) |                            |                                           |
| TBM Retrieval Box (excavation)    |                            |                                           |
| New bridge                        |                            |                                           |

Note: Proposed footprint of construction areas is indicative only and may be subject to change



**Melbourne Metro Rail Project**

**Title: Environmental and Planning Precincts - Construction**  
**Map 13 of 15**

|                                              |                            |                        |
|----------------------------------------------|----------------------------|------------------------|
| Drawing Number:<br>MMR-AJM-UGAA-MP-NN-500295 | Drawing Revision:<br>C1    |                        |
| Drawn By:<br>A. Berman                       | Approved By:<br>M. Tansley | Date:<br>20 April 2016 |

0 50 100 Metres





# CONCEPT DESIGN - OPERATION

Data Sources:  
 Proposed Infrastructure: AJM 2016 -  
 Alignment: Revision P2.4  
 Stations (CONTEXT ONLY): Revision 4.3;  
 Contains Vicmap Information © State of Victoria 2016;  
 Aerial photo: DELWP, February 2016

- Legend**
- Proposed Concept Design**
    - Proposed Alignment Above Ground
    - Proposed Alignment Below Ground
  - Proposed Above Ground Structures**
    - Emergency Access Structure
    - Ventilation Structure
  - Local Government Area
  - Tunnels Entrance/Exit
  - New bridge



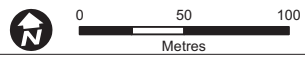
Note: Proposed footprint of post-construction structures is indicative only and may be subject to change



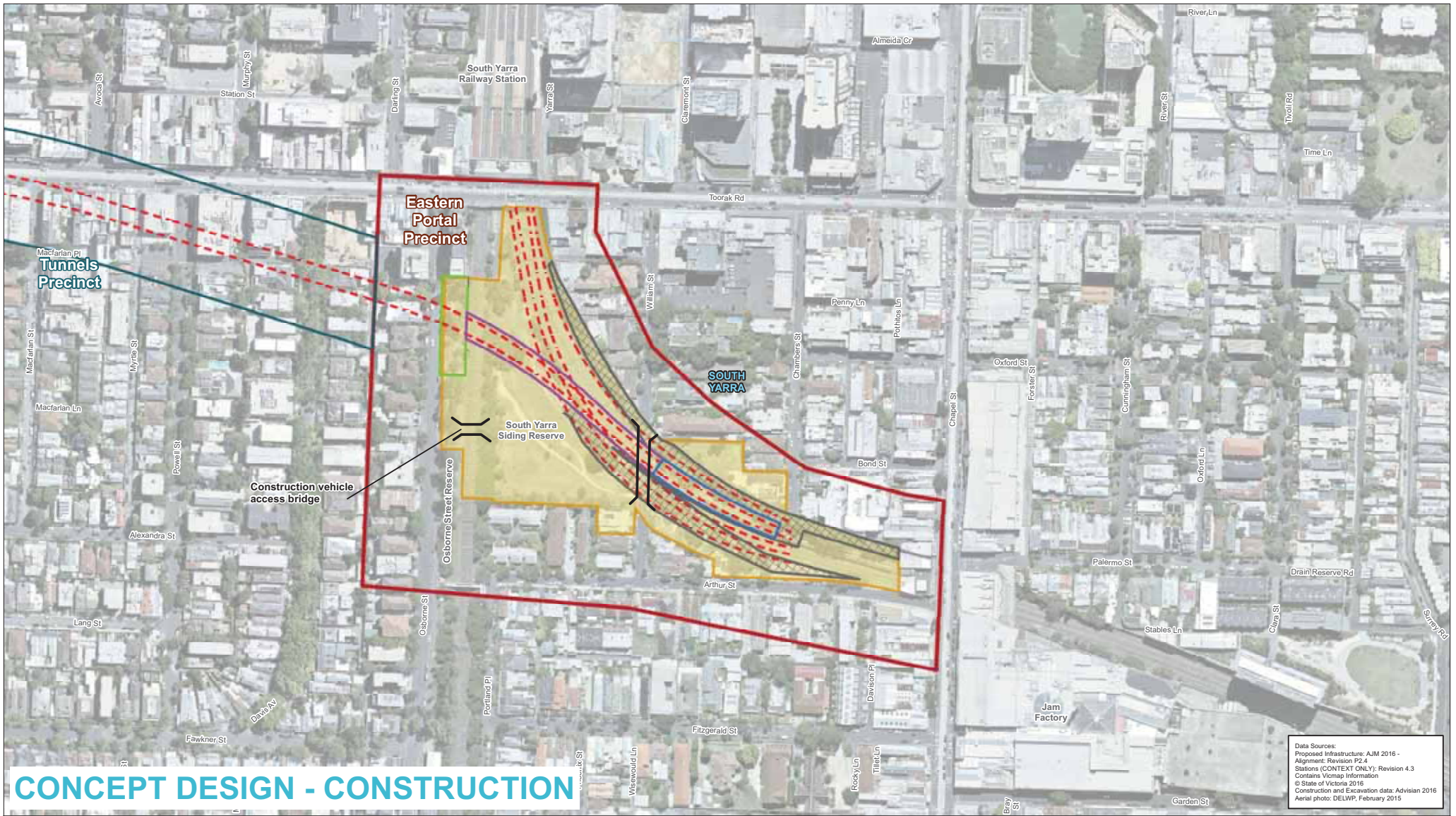
## Melbourne Metro Rail Project

Title: Environmental and Planning Precincts - Operation / Post Construction  
 Map 13 of 15

|                                              |                            |
|----------------------------------------------|----------------------------|
| Drawing Number:<br>MMR-AJM-UGAA-MP-NN-500288 | Drawing Revision:<br>C1    |
| Drawn By:<br>A. French                       | Approved By:<br>M. Tansley |
| Date:<br>20 April 2016                       |                            |







# CONCEPT DESIGN - CONSTRUCTION

Data Sources:  
 Proposed Infrastructure: AJM 2016 - Alignment: Revision P2.4  
 Stations (CONTEXT ONLY): Revision 4.3  
 Contains Vicmap Information  
 © State of Victoria 2016  
 Construction and Excavation data: Advision 2016  
 Aerial photo: DELWP, February 2015

- Legend**
- Proposed Concept Design**
- - - Proposed rail alignment
  - Decline Structure (excavation)
  - Tunnel Cut and Cover (excavation)
  - TBM Retrieval Box (excavation)
  - New bridge
- Precinct Boundaries**
- Tunnels Precinct
  - Portal Precinct
- Excavation Areas**
- Proposed temporary construction work site
  - Proposed excavation area - from surface

Note: Proposed footprint of construction areas is indicative only and may be subject to change

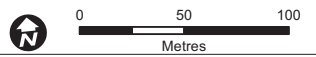


## Melbourne Metro Rail Project

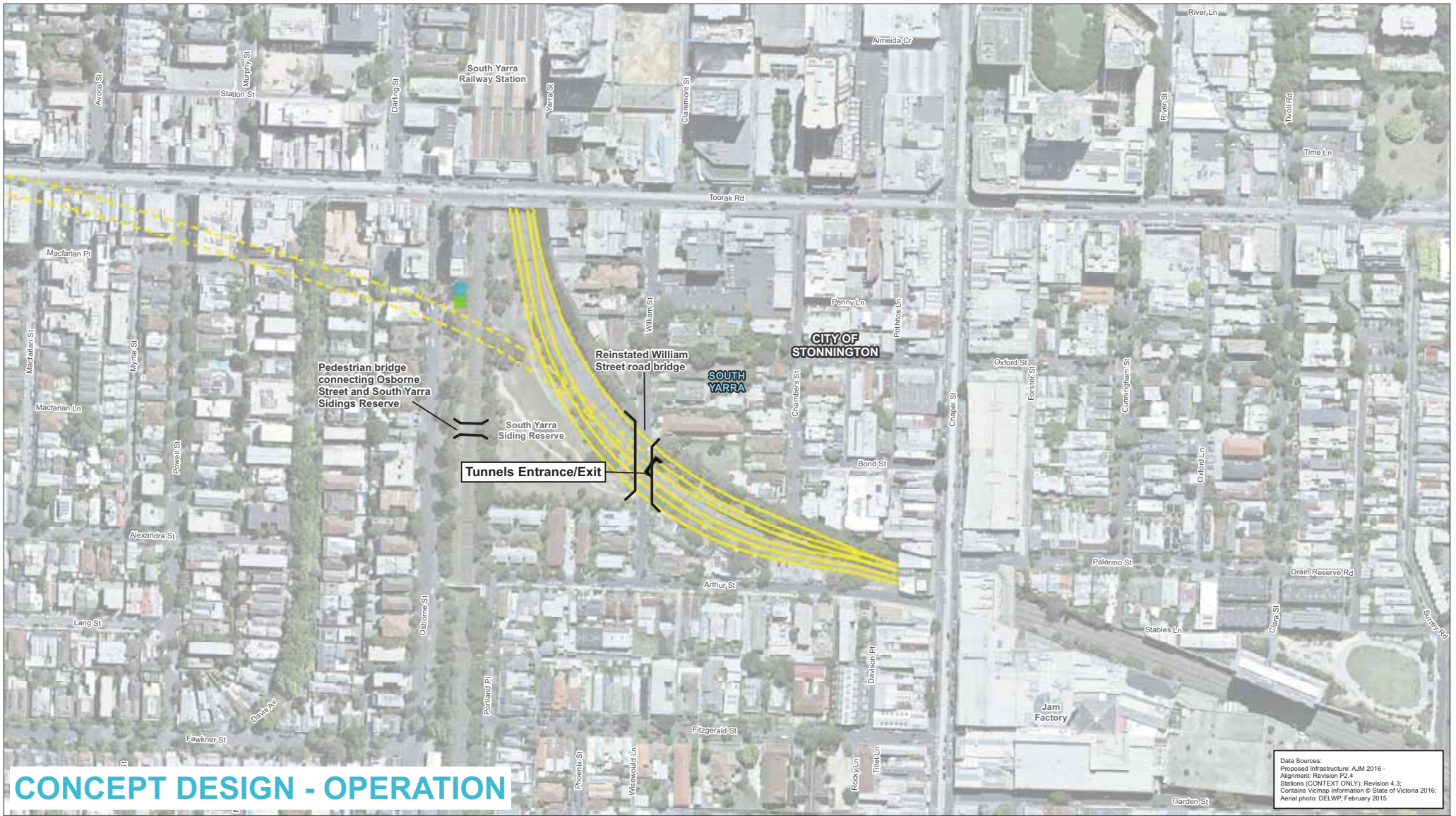
Title: Environmental and Planning Precincts - Construction  
 Map 14 of 15

Drawing Number: MMR-AJM-UGAA-MP-NN-500295  
 Drawing Revision: C1

|                        |                            |                        |
|------------------------|----------------------------|------------------------|
| Drawn By:<br>A. Berman | Approved By:<br>M. Tansley | Date:<br>20 April 2016 |
|------------------------|----------------------------|------------------------|







# CONCEPT DESIGN - OPERATION

Data Sources:  
 Proposed Infrastructure: AJM 2016 -  
 Alignment: Revision P2.4  
 Stations (CONTEXT ONLY): Revision 4.3;  
 Contains Vicmap Information © State of Victoria 2016;  
 Aerial photo: DELWP, February 2015

- Legend**
- Proposed Concept Design**
    - Proposed Alignment Above Ground
    - Proposed Alignment Below Ground
    - Tunnels Entrance/Exit
    - New bridge
  - Proposed Above Ground Structures**
    - Emergency Access Structure
    - Ventilation Structure
  - Local Government Area



Note: Proposed footprint of post-construction structures is indicative only and may be subject to change



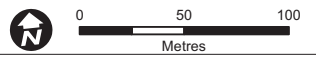
## Melbourne Metro Rail Project

Title: Environmental and Planning Precincts - Operation / Post Construction

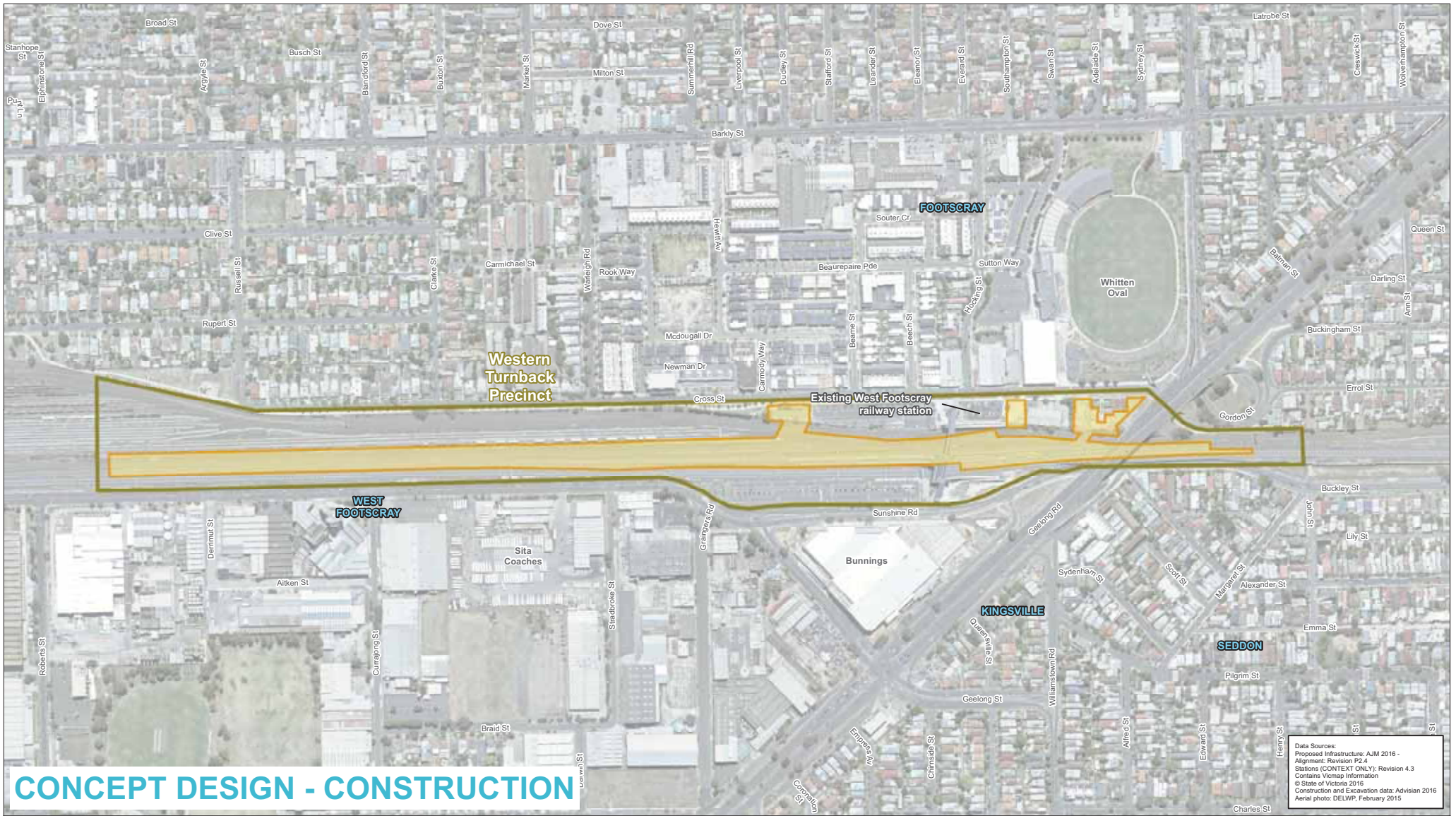
Map 14 of 15

Drawing Number: MMR-AJM-UGAA-MP-NN-500288 Drawing Revision: C1

|                        |                            |                        |
|------------------------|----------------------------|------------------------|
| Drawn By:<br>A. French | Approved By:<br>M. Tansley | Date:<br>20 April 2016 |
|------------------------|----------------------------|------------------------|







# CONCEPT DESIGN - CONSTRUCTION

Data Sources:  
 Proposed Infrastructure: AJM 2016 - Alignment: Revision P2.4  
 Stations (CONTEXT ONLY): Revision 4.3  
 Contains Vicmap Information  
 © State of Victoria 2016  
 Construction and Excavation data: Advisian 2016  
 Aerial photo: DELWP, February 2015

- Legend**
- Precinct Boundaries
  - Western Turnback Precinct
  - Proposed temporary construction work site

Note: Proposed footprint of construction areas is indicative only and may be subject to change

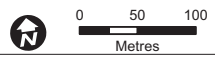


## Melbourne Metro Rail Project

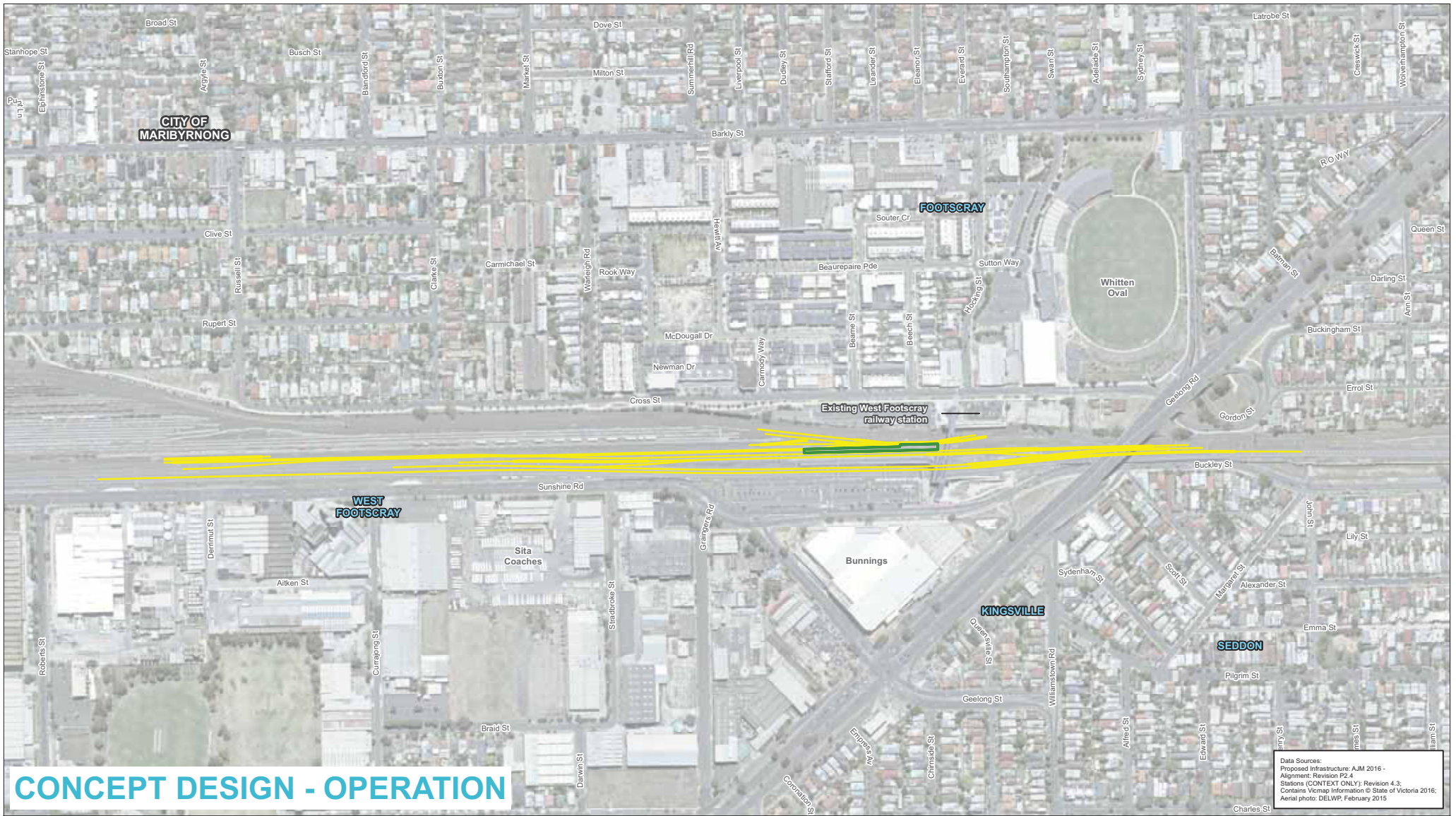
Title: Environmental and Planning Precincts - Construction  
 Map 15 of 15

Drawing Number: MMR-AJM-UGAA-MP-NN-500295  
 Drawing Revision: C1

Drawn By: A. Berman  
 Approved By: M. Tansley  
 Date: 20 April 2016





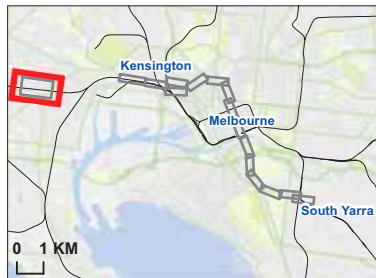


Data Sources:  
 Proposed Infrastructure: AJM 2016 -  
 Alignment; Revision P2.4  
 Stations (CONTEXT ONLY); Revision 4.3;  
 Contains Vicmap Information © State of Victoria 2016;  
 Aerial photo: DELWP, February 2015

**Legend**

- Proposed Turnback Design - West Footscray
- Proposed platform
- Proposed alignment
- Local Government Area

Note: Proposed footprint of post-construction structures is indicative only and may be subject to change



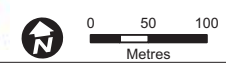
**Melbourne Metro Rail Project**

Title: **Environmental and Planning Precincts - Operation / Post Construction**

Map 15 of 15

Drawing Number: MMR-AJM-UGAA-MP-NN-500288  
 Drawing Revision: C1

Drawn By: A. French  
 Approved By: M. Tansley  
 Date: 20 April 2016









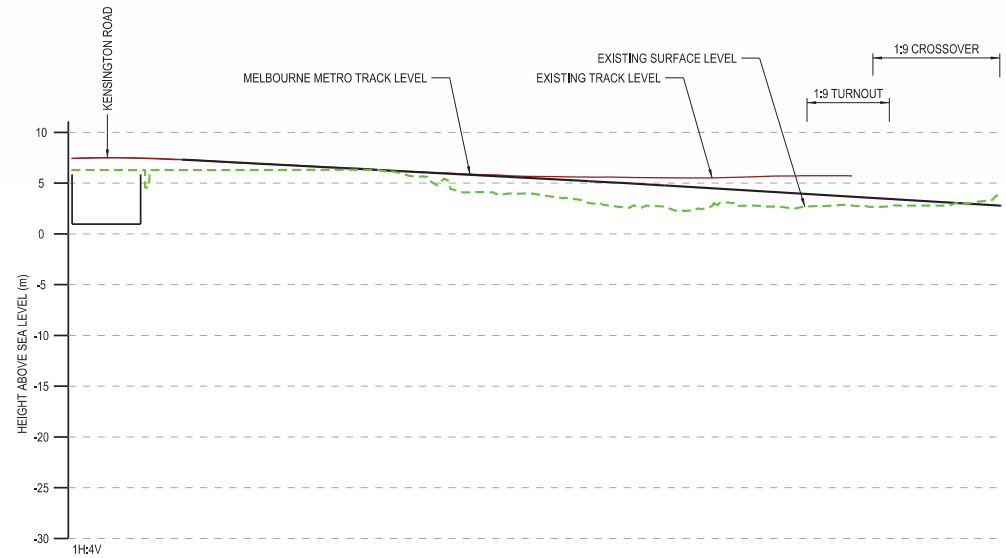


# VERTICAL ALIGNMENT PLANS





PLAN



VERTICAL PROFILE

CONCEPT DESIGN - OPERATION

| LEGEND |                                |  |                                 |  |                                         |
|--------|--------------------------------|--|---------------------------------|--|-----------------------------------------|
|        | MELBOURNE METRO TRACKS         |  | DRAINAGE SUMP                   |  | ALTERNATIVE DESIGN OPTION               |
|        | TRACKS TO BE REMOVED           |  | CUT AND COVER STATION FOOTPRINT |  | SERVICE FACILITY / TBM RETRIEVAL POINT  |
|        | TRACKS TO BE REALIGNED         |  | PLATFORM                        |  | TUNNEL - MINED                          |
|        | EXISTING SURFACE               |  | DECLINE STRUCTURE               |  | CITY LOOP                               |
|        | RETAINING WALL / VERTICAL WALL |  | TUNNEL - DRIVEN                 |  | CITYLINK CROWN ALLOTMENT                |
|        | DIVIDING WALL                  |  | TUNNEL - CUT & COVER            |  | EMERGENCY ACCESS STRUCTURE              |
|        | BATTERS                        |  | CROSS PASSAGE                   |  | CAVERN STATION ENTRANCE AND PLANT SHAFT |
|        | EXISTING TRACK LEVEL           |  | PRECAST CONCRETE RETAINING WALL |  | MINED STATION                           |

Note:  
 - Surface works are not shown.  
 - Proposed footprint of post-construction structures is indicative only and may be subject to change.



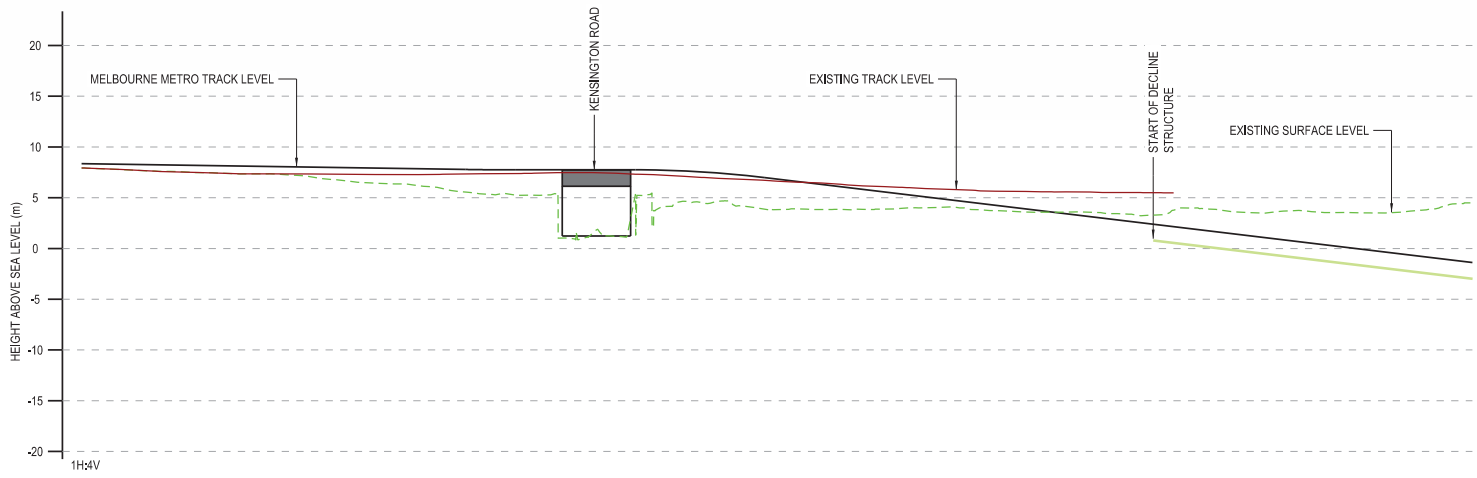
# Melbourne Metro Rail Project

Title  
 CONCEPT DESIGN VERTICAL PROFILE SHEET 1 OF 15

|                                             |                           |                  |                |
|---------------------------------------------|---------------------------|------------------|----------------|
| Drawing Number<br>MMR-AJM-PWAA-MP-NN-500301 |                           | Revision<br>C1   |                |
| Drawn By<br>N WIJERATHNE                    | Approved By<br>D ANDERSON | Date<br>20/04/16 | Map Size<br>A3 |







ALTERNATIVE DESIGN OPTION - OPERATION

LEGEND

- |                                |                                 |                                         |
|--------------------------------|---------------------------------|-----------------------------------------|
| MELBOURNE METRO TRACKS         | DRAINAGE SUMP                   | ALTERNATIVE DESIGN OPTION               |
| TRACKS TO BE REMOVED           | CUT AND COVER STATION FOOTPRINT | SERVICE FACILITY / TBM RETRIEVAL POINT  |
| TRACKS TO BE REALIGNED         | PLATFORM                        | TUNNEL - MINED                          |
| EXISTING SURFACE               | DECLINE STRUCTURE               | CITY LOOP                               |
| RETAINING WALL / VERTICAL WALL | TUNNEL - DRIVEN                 | CITYLINK CROWN ALLOTMENT                |
| DIVIDING WALL                  | TUNNEL - CUT & COVER            | EMERGENCY ACCESS STRUCTURE              |
| BATTERS                        | CROSS PASSAGE                   | CAVERN STATION ENTRANCE AND PLANT SHAFT |
| EXISTING TRACK LEVEL           | PRECAST CONCRETE RETAINING WALL | MINED STATION                           |

Note:  
 - Surface works are not shown.  
 - Proposed footprint of post-construction structures is indicative only and may be subject to change.



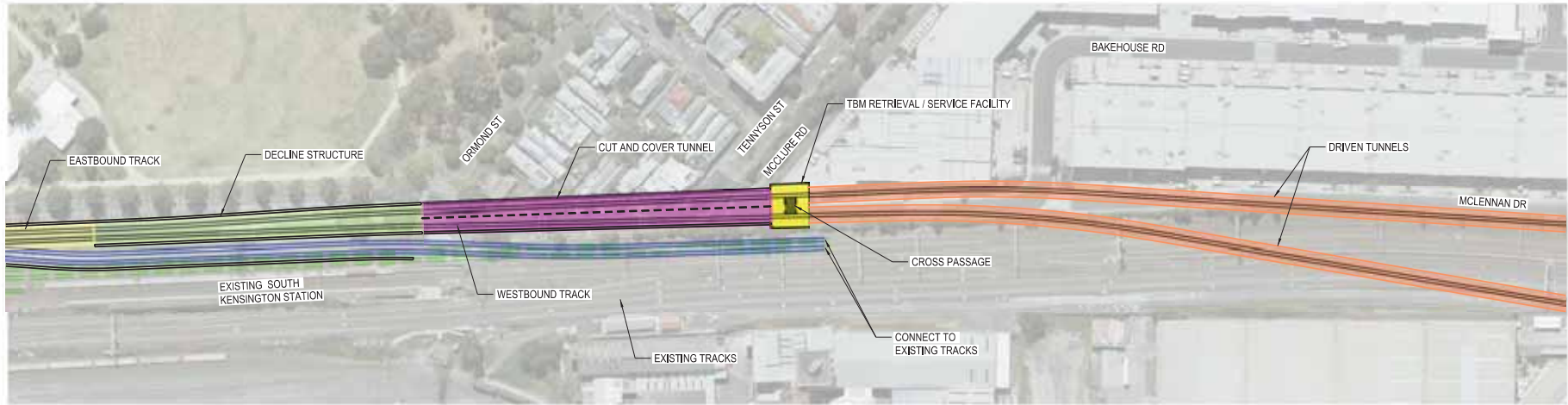
Melbourne Metro Rail Project

Title  
 DESIGN OPTION VERTICAL PROFILE SHEET 1A OF 15

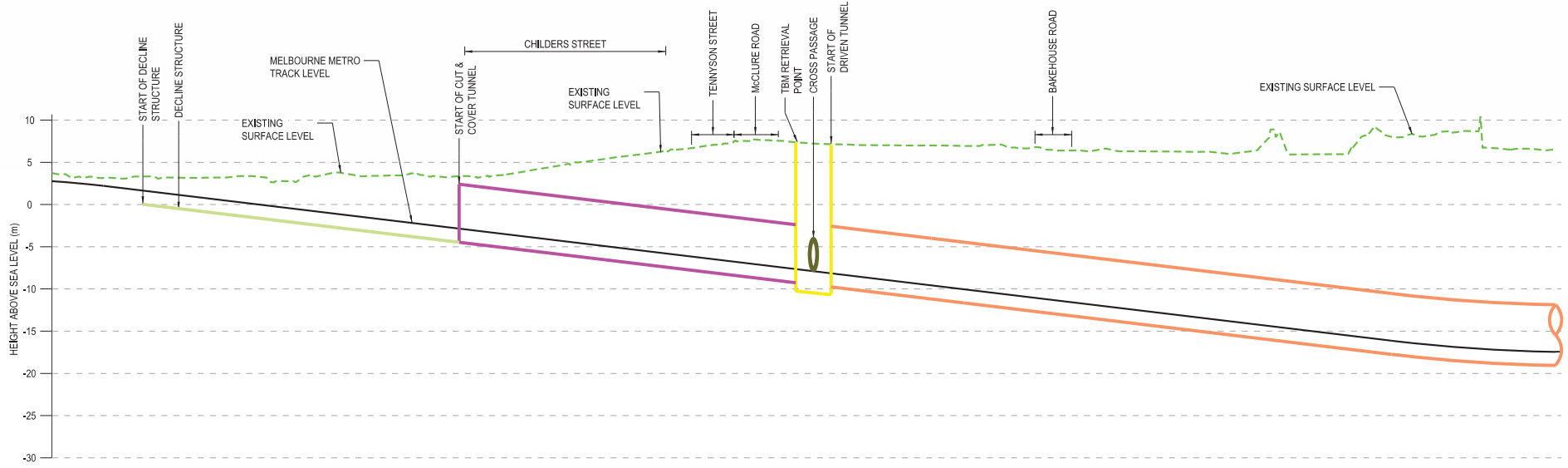
|                                             |                           |
|---------------------------------------------|---------------------------|
| Drawing Number<br>MMR-AJM-PWAA-MP-NN-500301 | Revision<br>C1            |
| Drawn By<br>N WIJERATHNE                    | Approved By<br>D ANDERSON |
| Date<br>20/04/16                            | Map Size<br>A3            |







PLAN



VERTICAL PROFILE

CONCEPT DESIGN - OPERATION

LEGEND

- |  |                                |  |                                 |  |                                         |
|--|--------------------------------|--|---------------------------------|--|-----------------------------------------|
|  | MELBOURNE METRO TRACKS         |  | DRAINAGE SUMP                   |  | ALTERNATIVE DESIGN OPTION               |
|  | TRACKS TO BE REMOVED           |  | CUT AND COVER STATION FOOTPRINT |  | SERVICE FACILITY / TBM RETRIEVAL POINT  |
|  | TRACKS TO BE REALIGNED         |  | PLATFORM                        |  | TUNNEL - MINED                          |
|  | EXISTING SURFACE               |  | DECLINE STRUCTURE               |  | CITY LOOP                               |
|  | RETAINING WALL / VERTICAL WALL |  | TUNNEL - DRIVEN                 |  | CITYLINK CROWN ALLOTMENT                |
|  | DIVIDING WALL                  |  | TUNNEL - CUT & COVER            |  | EMERGENCY ACCESS STRUCTURE              |
|  | BATTERS                        |  | CROSS PASSAGE                   |  | CAVERN STATION ENTRANCE AND PLANT SHAFT |
|  | EXISTING TRACK LEVEL           |  | PRECAST CONCRETE RETAINING WALL |  | MINED STATION                           |

Note:  
 - Surface works are not shown.  
 - Proposed footprint of post-construction structures is indicative only and may be subject to change.

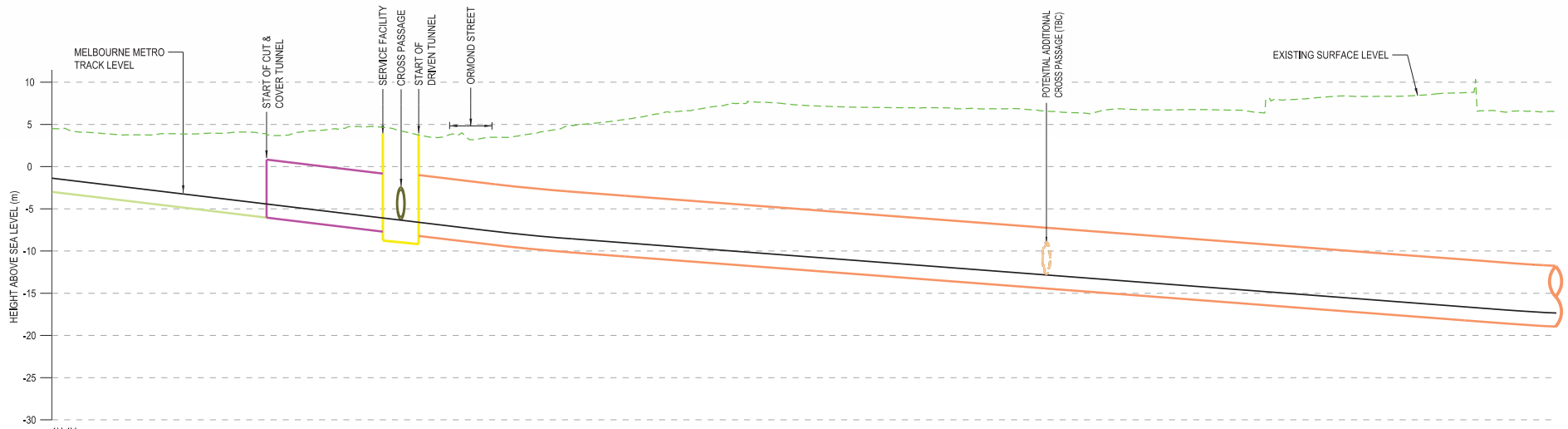


# Melbourne Metro Rail Project

|                                                        |                           |                  |                |
|--------------------------------------------------------|---------------------------|------------------|----------------|
| Title<br>CONCEPT DESIGN VERTICAL PROFILE SHEET 2 OF 15 |                           |                  |                |
| Drawing Number<br>MMR-AJM-PWAA-MP-NN-500301            |                           | Revision<br>C1   |                |
| Drawn By<br>N WIJERATHNE                               | Approved By<br>D ANDERSON | Date<br>20/04/16 | Map Size<br>A3 |







ALTERNATIVE DESIGN OPTION - OPERATION

LEGEND

- |  |                                |  |                                 |  |                                         |
|--|--------------------------------|--|---------------------------------|--|-----------------------------------------|
|  | MELBOURNE METRO TRACKS         |  | DRAINAGE SUMP                   |  | ALTERNATIVE DESIGN OPTION               |
|  | TRACKS TO BE REMOVED           |  | CUT AND COVER STATION FOOTPRINT |  | SERVICE FACILITY / TBM RETRIEVAL POINT  |
|  | TRACKS TO BE REALIGNED         |  | PLATFORM                        |  | TUNNEL - MINED                          |
|  | EXISTING SURFACE               |  | DECLINE STRUCTURE               |  | CITY LOOP                               |
|  | RETAINING WALL / VERTICAL WALL |  | TUNNEL - DRIVEN                 |  | CITYLINK CROWN ALLOTMENT                |
|  | DIVIDING WALL                  |  | TUNNEL - CUT & COVER            |  | EMERGENCY ACCESS STRUCTURE              |
|  | BATTERS                        |  | CROSS PASSAGE                   |  | CAVERN STATION ENTRANCE AND PLANT SHAFT |
|  | EXISTING TRACK LEVEL           |  | PRECAST CONCRETE RETAINING WALL |  | MINED STATION                           |

Note:  
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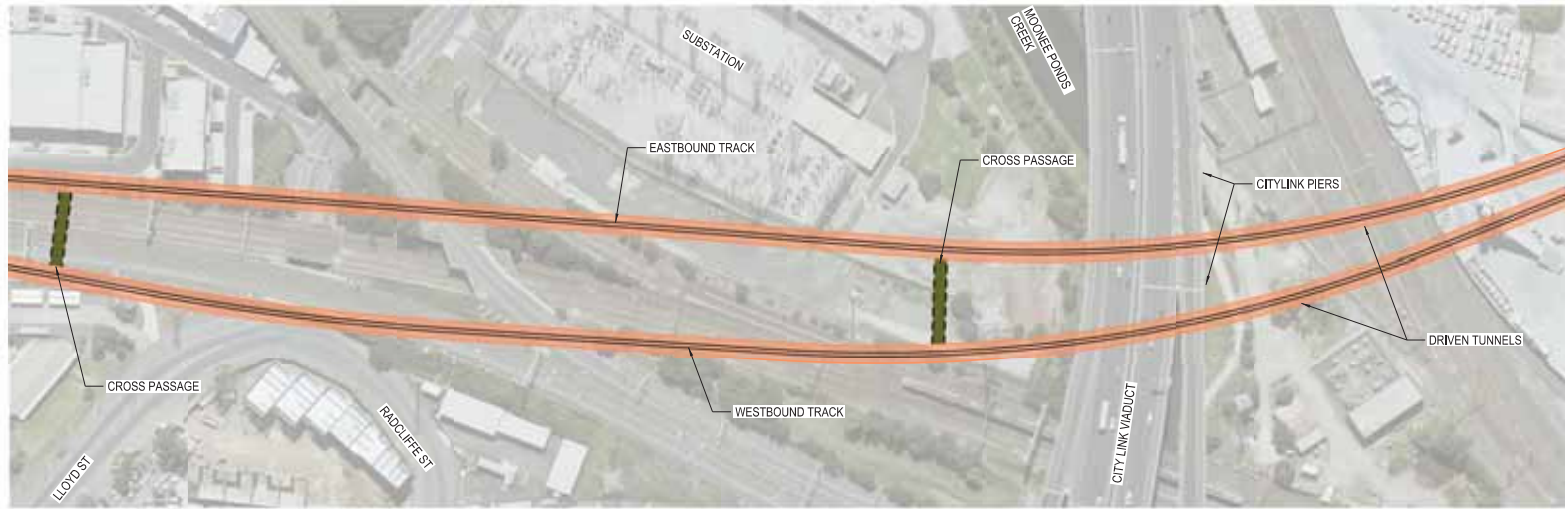
# Melbourne Metro Rail Project

Title  
 DESIGN OPTION VERTICAL PROFILE SHEET 2A OF 15

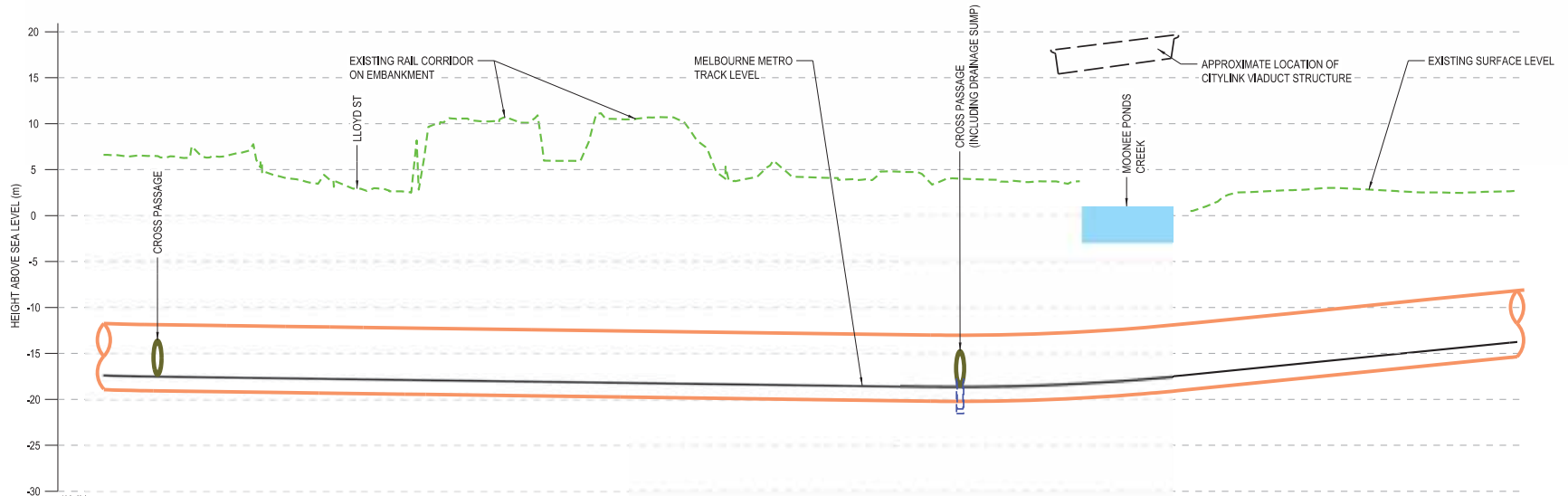
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|---------------------------------------------|---------------------------|
| Drawing Number<br>MMR-AJM-PWAA-MP-NN-500301 | Revision<br>C1            |
| Drawn By<br>N WIJERATHNE                    | Approved By<br>D ANDERSON |
| Date<br>20/04/16                            | Map Size<br>A3            |







PLAN



VERTICAL PROFILE

CONCEPT DESIGN - OPERATION

LEGEND

- |  |                                |  |                                 |  |                                         |
|--|--------------------------------|--|---------------------------------|--|-----------------------------------------|
|  | MELBOURNE METRO TRACKS         |  | DRAINAGE SUMP                   |  | ALTERNATIVE DESIGN OPTION               |
|  | TRACKS TO BE REMOVED           |  | CUT AND COVER STATION FOOTPRINT |  | SERVICE FACILITY / TBM RETRIEVAL POINT  |
|  | TRACKS TO BE REALIGNED         |  | PLATFORM                        |  | TUNNEL - MINED                          |
|  | EXISTING SURFACE               |  | DECLINE STRUCTURE               |  | CITY LOOP                               |
|  | RETAINING WALL / VERTICAL WALL |  | TUNNEL - DRIVEN                 |  | CITYLINK CROWN ALLOTMENT                |
|  | DIVIDING WALL                  |  | TUNNEL - CUT & COVER            |  | EMERGENCY ACCESS STRUCTURE              |
|  | BATTERS                        |  | CROSS PASSAGE                   |  | CAVERN STATION ENTRANCE AND PLANT SHAFT |
|  | EXISTING TRACK LEVEL           |  | PRECAST CONCRETE RETAINING WALL |  | MINED STATION                           |

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# Melbourne Metro Rail Project

Title  
 CONCEPT DESIGN VERTICAL PROFILE SHEET 3 OF 15

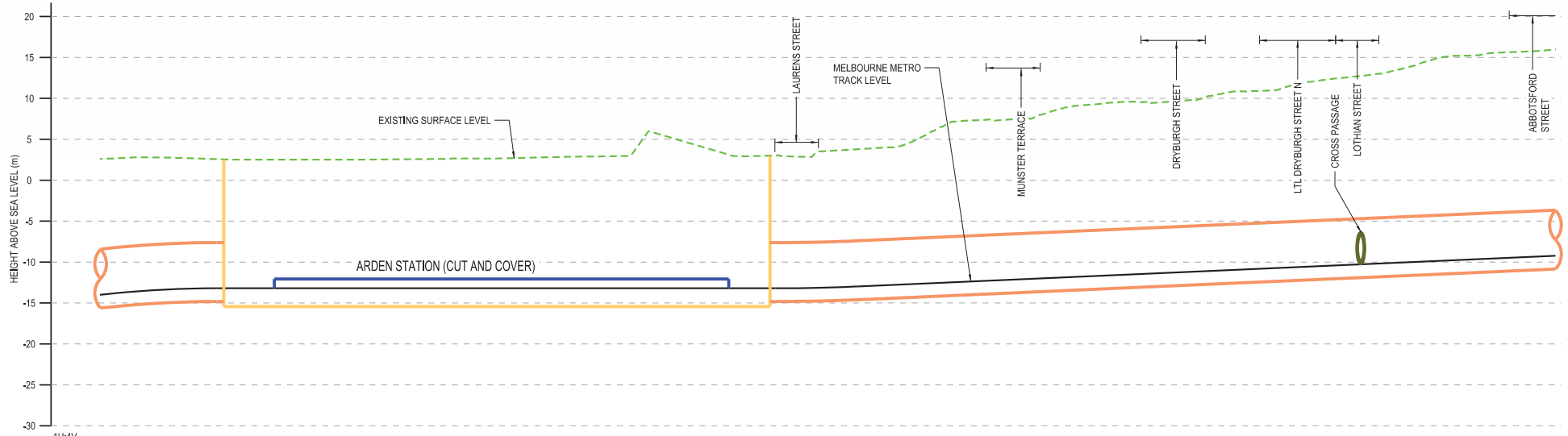
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| Drawing Number<br>MMR-AJM-PWAA-MP-NN-500301 | Revision<br>C1            |
| Drawn By<br>N WIJERATHNE                    | Approved By<br>D ANDERSON |
| Date<br>20/04/16                            | Map Size<br>A3            |







PLAN

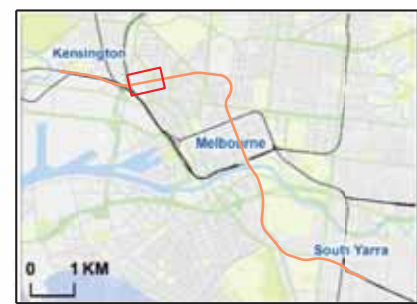


VERTICAL PROFILE

CONCEPT DESIGN - OPERATION

| LEGEND |                                |  |                                 |  |                                         |
|--------|--------------------------------|--|---------------------------------|--|-----------------------------------------|
|        | MELBOURNE METRO TRACKS         |  | DRAINAGE SUMP                   |  | ALTERNATIVE DESIGN OPTION               |
|        | TRACKS TO BE REMOVED           |  | CUT AND COVER STATION FOOTPRINT |  | SERVICE FACILITY / TBM RETRIEVAL POINT  |
|        | TRACKS TO BE REALIGNED         |  | PLATFORM                        |  | TUNNEL - MINED                          |
|        | EXISTING SURFACE               |  | DECLINE STRUCTURE               |  | CITY LOOP                               |
|        | RETAINING WALL / VERTICAL WALL |  | TUNNEL - DRIVEN                 |  | CITYLINK CROWN ALLOTMENT                |
|        | DIVIDING WALL                  |  | TUNNEL - CUT & COVER            |  | EMERGENCY ACCESS STRUCTURE              |
|        | BATTERS                        |  | CROSS PASSAGE                   |  | CAVERN STATION ENTRANCE AND PLANT SHAFT |
|        | EXISTING TRACK LEVEL           |  | PRECAST CONCRETE RETAINING WALL |  | MINED STATION                           |

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# Melbourne Metro Rail Project

Title  
 CONCEPT DESIGN VERTICAL PROFILE SHEET 4 OF 15

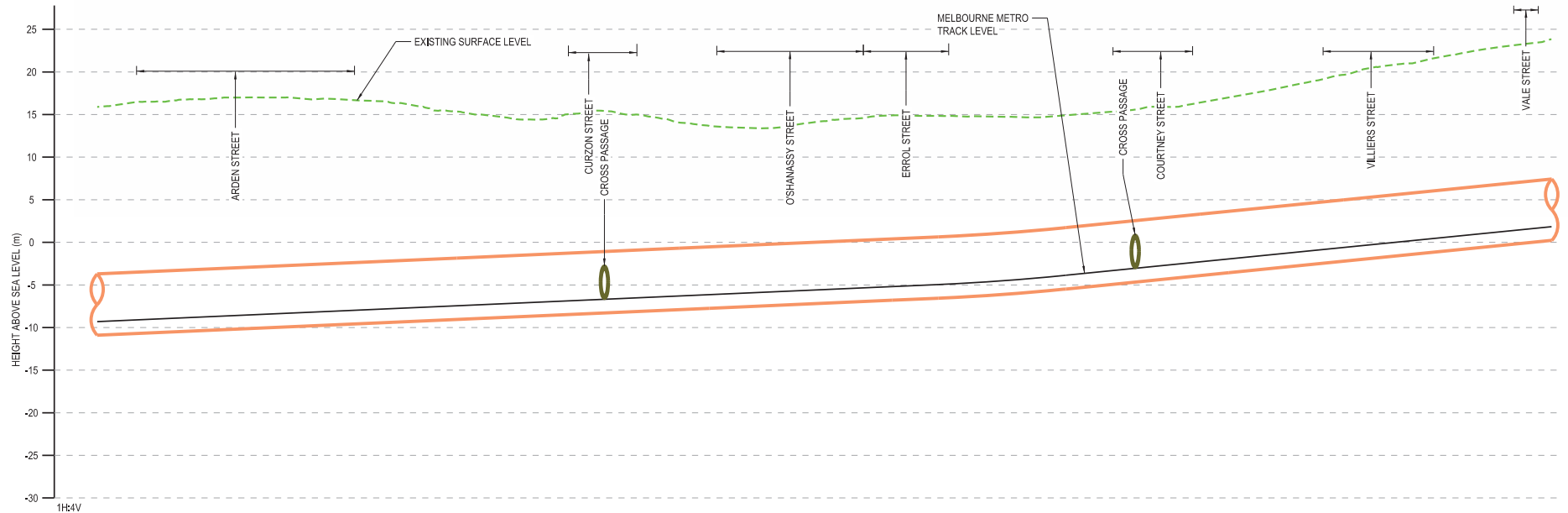
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|---------------------------------------------|---------------------------|
| Drawing Number<br>MMR-AJM-PWAA-MP-NN-500301 | Revision<br>C1            |
| Drawn By<br>N WIJERATHNE                    | Approved By<br>D ANDERSON |
| Date<br>20/04/16                            | Map Size<br>A3            |







PLAN



VERTICAL PROFILE

CONCEPT DESIGN - OPERATION

LEGEND

- |  |                                |  |                                 |  |                                         |
|--|--------------------------------|--|---------------------------------|--|-----------------------------------------|
|  | MELBOURNE METRO TRACKS         |  | DRAINAGE SUMP                   |  | ALTERNATIVE DESIGN OPTION               |
|  | TRACKS TO BE REMOVED           |  | CUT AND COVER STATION FOOTPRINT |  | SERVICE FACILITY / TBM RETRIEVAL POINT  |
|  | TRACKS TO BE REALIGNED         |  | PLATFORM                        |  | TUNNEL - MINED                          |
|  | EXISTING SURFACE               |  | DECLINE STRUCTURE               |  | CITY LOOP                               |
|  | RETAINING WALL / VERTICAL WALL |  | TUNNEL - DRIVEN                 |  | CITYLINK CROWN ALLOTMENT                |
|  | DIVIDING WALL                  |  | TUNNEL - CUT & COVER            |  | EMERGENCY ACCESS STRUCTURE              |
|  | BATTERS                        |  | CROSS PASSAGE                   |  | CAVERN STATION ENTRANCE AND PLANT SHAFT |
|  | EXISTING TRACK LEVEL           |  | PRECAST CONCRETE RETAINING WALL |  | MINED STATION                           |

Note:  
 - Surface works are not shown.  
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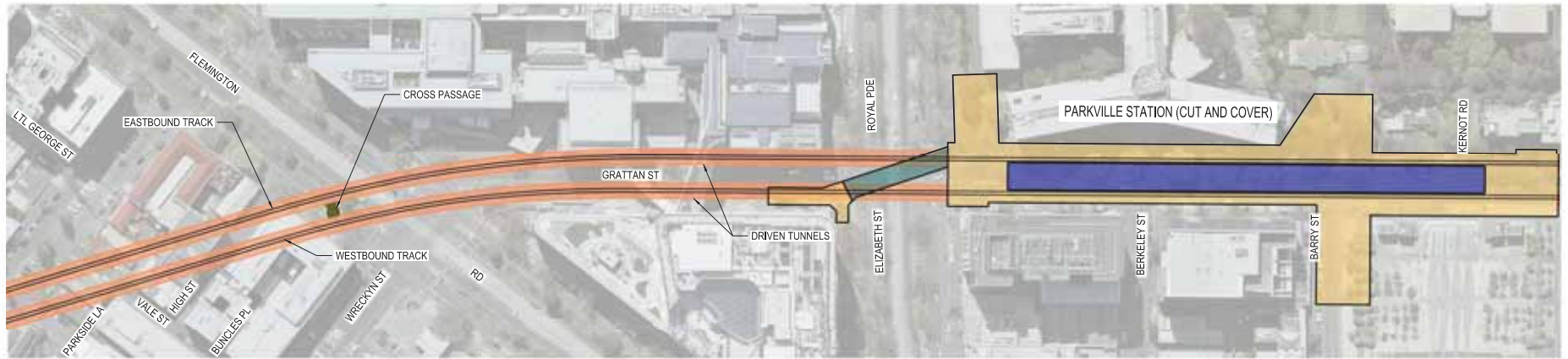
# Melbourne Metro Rail Project

Title  
 CONCEPT DESIGN VERTICAL PROFILE SHEET 5 OF 15

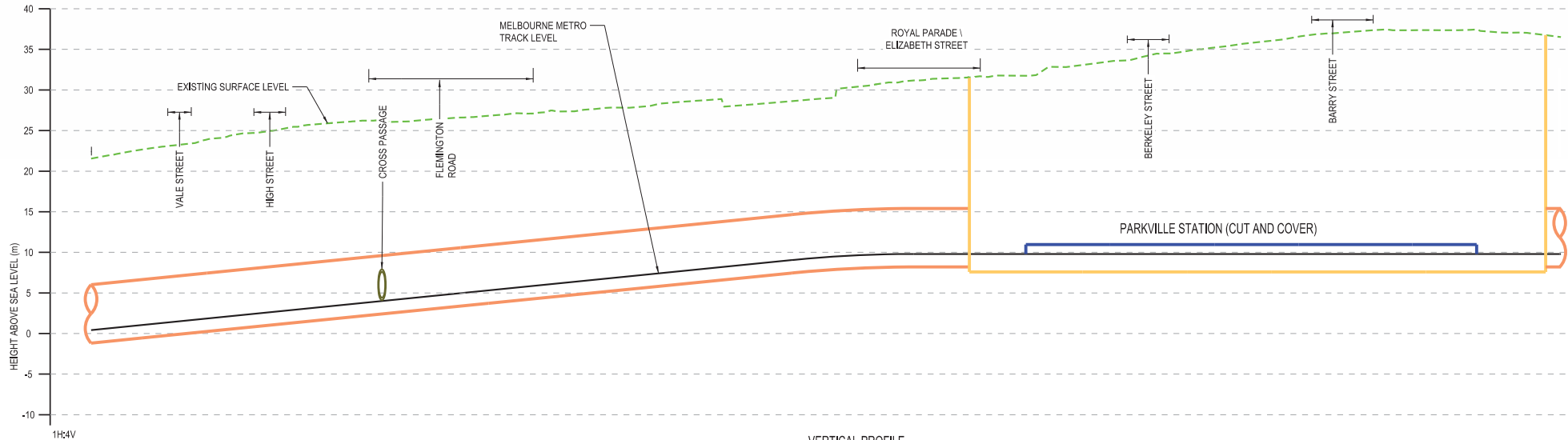
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| Drawing Number<br>MMR-AJM-PWAA-MP-NN-500301 | Revision<br>C1            |
| Drawn By<br>N WIJERATHNE                    | Approved By<br>D ANDERSON |
| Date<br>20/04/16                            | Map Size<br>A3            |







PLAN



VERTICAL PROFILE

CONCEPT DESIGN - OPERATION

LEGEND

- |  |                                |  |                                 |  |                                         |
|--|--------------------------------|--|---------------------------------|--|-----------------------------------------|
|  | MELBOURNE METRO TRACKS         |  | DRAINAGE SUMP                   |  | ALTERNATIVE DESIGN OPTION               |
|  | TRACKS TO BE REMOVED           |  | CUT AND COVER STATION FOOTPRINT |  | SERVICE FACILITY / TBM RETRIEVAL POINT  |
|  | TRACKS TO BE REALIGNED         |  | PLATFORM                        |  | TUNNEL - MINED                          |
|  | EXISTING SURFACE               |  | DECLINE STRUCTURE               |  | CITY LOOP                               |
|  | RETAINING WALL / VERTICAL WALL |  | TUNNEL - DRIVEN                 |  | CITYLINK CROWN ALLOTMENT                |
|  | DIVIDING WALL                  |  | TUNNEL - CUT & COVER            |  | EMERGENCY ACCESS STRUCTURE              |
|  | BATTERS                        |  | CROSS PASSAGE                   |  | CAVERN STATION ENTRANCE AND PLANT SHAFT |
|  | EXISTING TRACK LEVEL           |  | PRECAST CONCRETE RETAINING WALL |  | MINED STATION                           |

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# Melbourne Metro Rail Project

Title  
 CONCEPT DESIGN VERTICAL PROFILE SHEET 6 OF 15

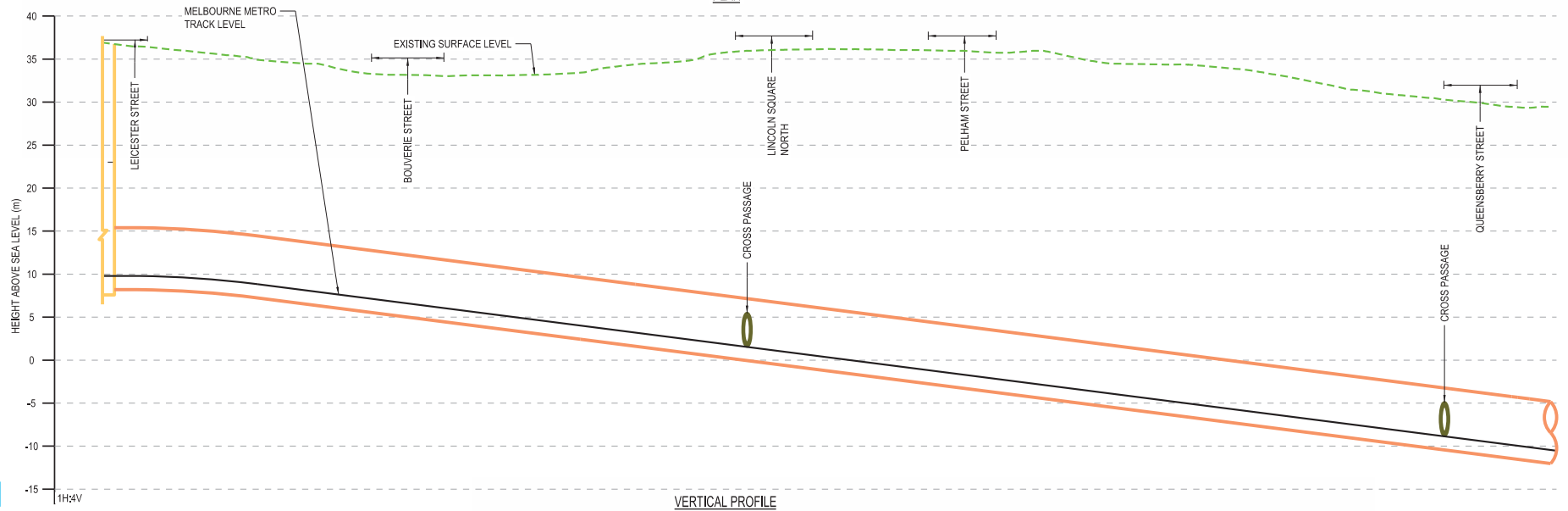
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| Drawing Number<br>MMR-AJM-PWAA-MP-NN-500301 | Revision<br>C1            |
| Drawn By<br>N WIJERATHNE                    | Approved By<br>D ANDERSON |
| Date<br>20/04/16                            | Map Size<br>A3            |







PLAN



VERTICAL PROFILE

CONCEPT DESIGN - OPERATION

LEGEND

- |  |                                |  |                                 |  |                                         |
|--|--------------------------------|--|---------------------------------|--|-----------------------------------------|
|  | MELBOURNE METRO TRACKS         |  | DRAINAGE SUMP                   |  | ALTERNATIVE DESIGN OPTION               |
|  | TRACKS TO BE REMOVED           |  | CUT AND COVER STATION FOOTPRINT |  | SERVICE FACILITY / TBM RETRIEVAL POINT  |
|  | TRACKS TO BE REALIGNED         |  | PLATFORM                        |  | TUNNEL - MINED                          |
|  | EXISTING SURFACE               |  | DECLINE STRUCTURE               |  | CITY LOOP                               |
|  | RETAINING WALL / VERTICAL WALL |  | TUNNEL - DRIVEN                 |  | CITYLINK CROWN ALLOTMENT                |
|  | DIVIDING WALL                  |  | TUNNEL - CUT & COVER            |  | EMERGENCY ACCESS STRUCTURE              |
|  | BATTERS                        |  | CROSS PASSAGE                   |  | CAVERN STATION ENTRANCE AND PLANT SHAFT |
|  | EXISTING TRACK LEVEL           |  | PRECAST CONCRETE RETAINING WALL |  | MINED STATION                           |

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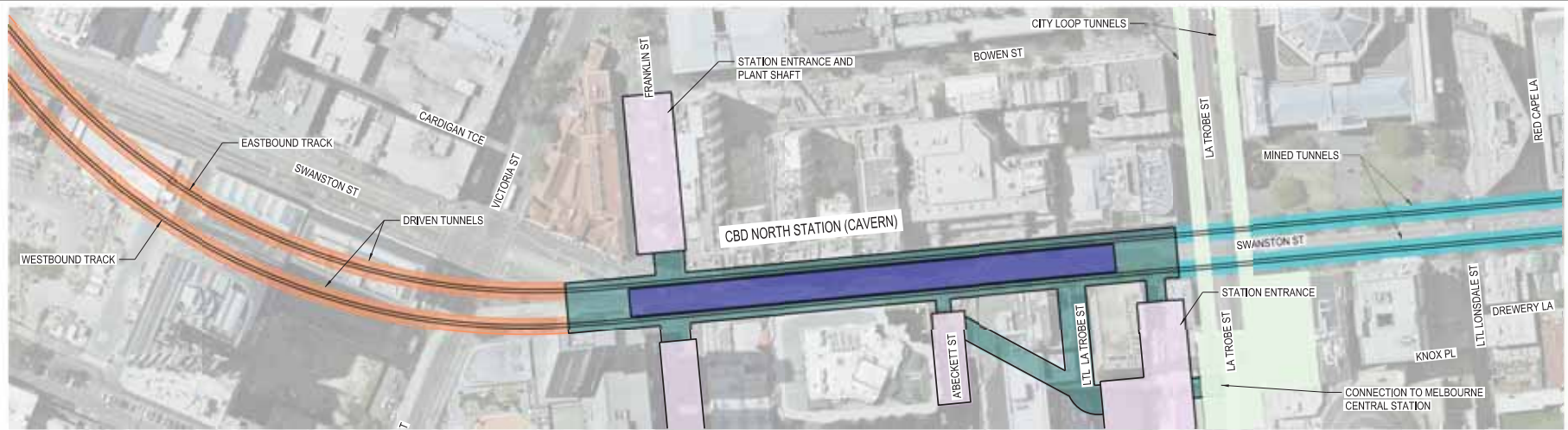


# Melbourne Metro Rail Project

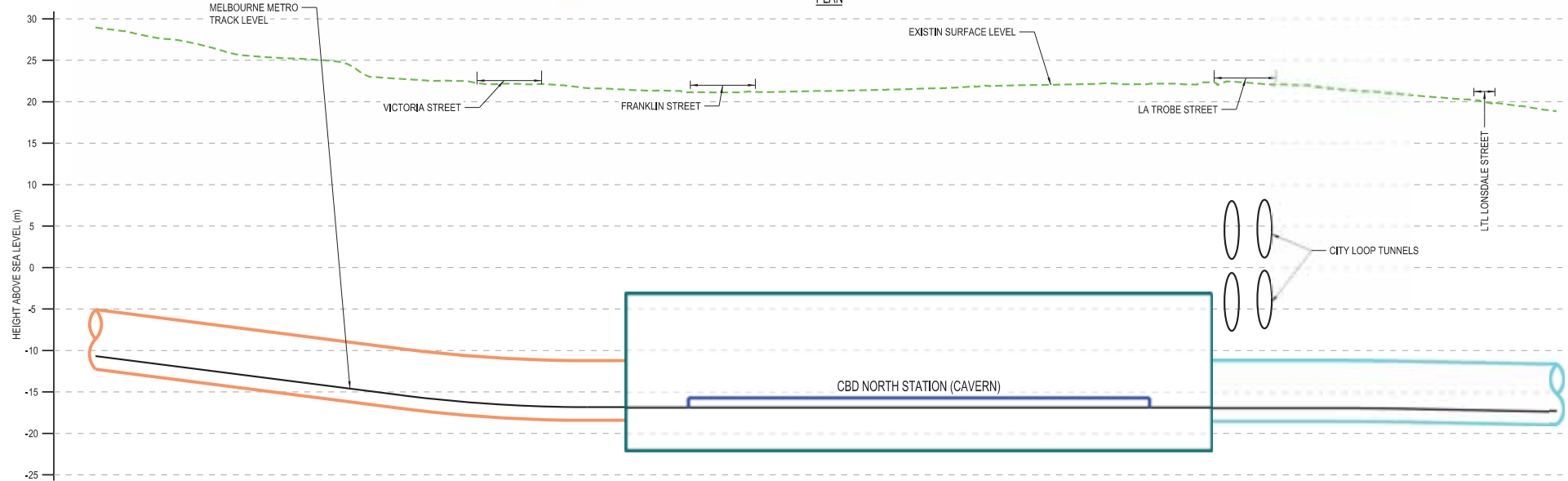
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 CONCEPT DESIGN VERTICAL PROFILE SHEET 7 OF 15

|                                             |                           |
|---------------------------------------------|---------------------------|
| Drawing Number<br>MMR-AJM-PWAA-MP-NN-500301 | Revision<br>C1            |
| Drawn By<br>N WIJERATHNE                    | Approved By<br>D ANDERSON |
| Date<br>20/04/16                            | Map Size<br>A3            |





PLAN



VERTICAL PROFILE

CONCEPT DESIGN - OPERATION

| LEGEND |                                |  |                                 |  |                                         |
|--------|--------------------------------|--|---------------------------------|--|-----------------------------------------|
|        | MELBOURNE METRO TRACKS         |  | DRAINAGE SUMP                   |  | ALTERNATIVE DESIGN OPTION               |
|        | TRACKS TO BE REMOVED           |  | CUT AND COVER STATION FOOTPRINT |  | SERVICE FACILITY / TBM RETRIEVAL POINT  |
|        | TRACKS TO BE REALIGNED         |  | PLATFORM                        |  | TUNNEL - MINED                          |
|        | EXISTING SURFACE               |  | DECLINE STRUCTURE               |  | CITY LOOP                               |
|        | RETAINING WALL / VERTICAL WALL |  | TUNNEL - DRIVEN                 |  | CITYLINK CROWN ALLOTMENT                |
|        | DIVIDING WALL                  |  | TUNNEL - CUT & COVER            |  | EMERGENCY ACCESS STRUCTURE              |
|        | BATTERS                        |  | CROSS PASSAGE                   |  | CAVERN STATION ENTRANCE AND PLANT SHAFT |
|        | EXISTING TRACK LEVEL           |  | PRECAST CONCRETE RETAINING WALL |  | MINED STATION                           |

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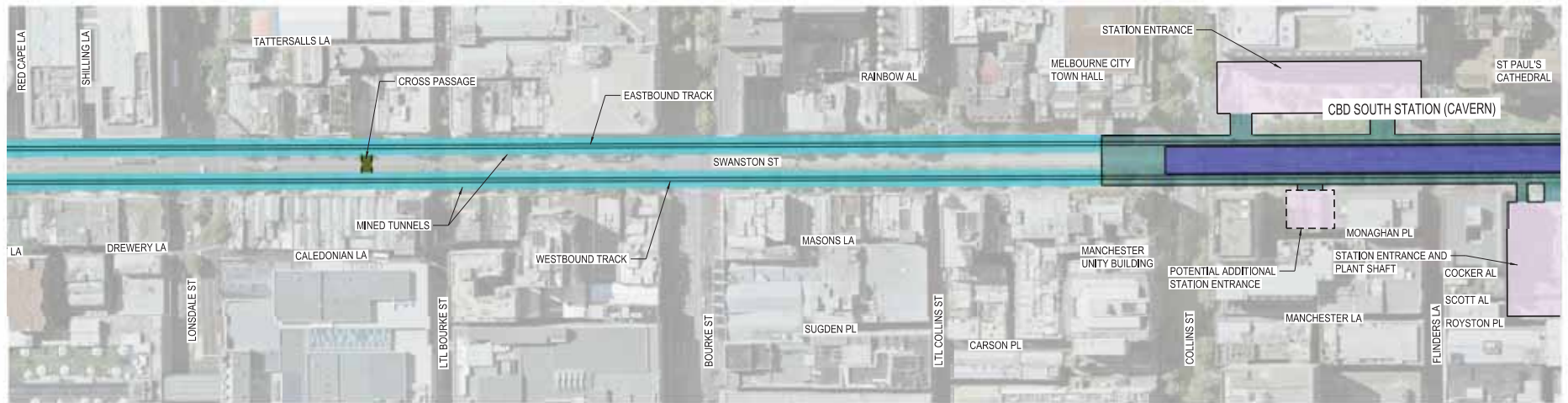


# Melbourne Metro Rail Project

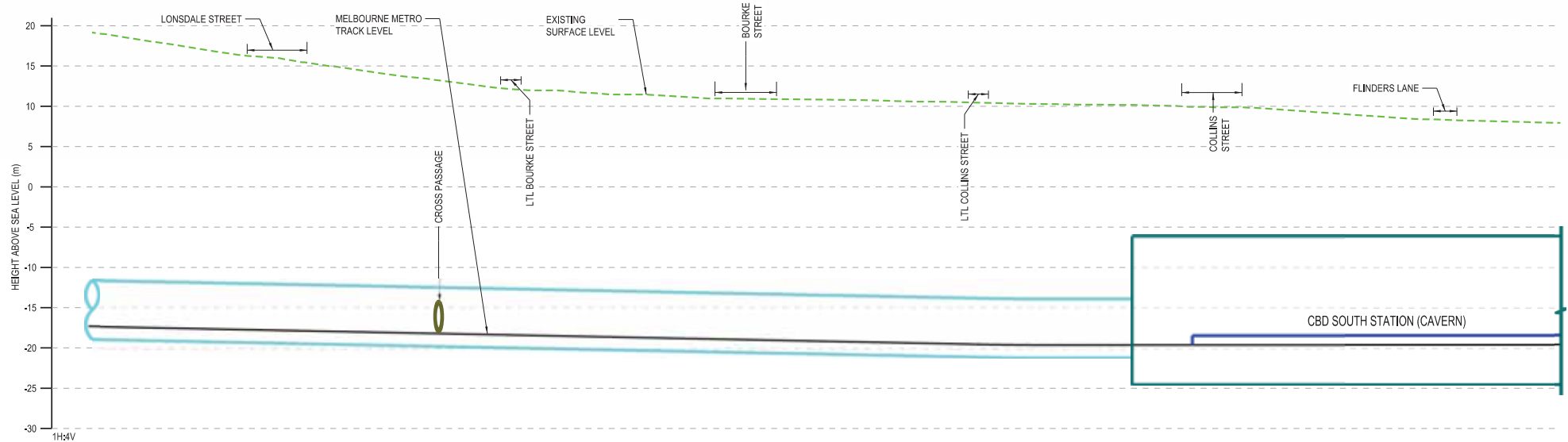
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| Title<br>CONCEPT DESIGN VERTICAL PROFILE SHEET 8 OF 15 |                           |                  |                |
| Drawing Number<br>MMR-AJM-PWAA-MP-NN-500301            |                           | Revision<br>C1   |                |
| Drawn By<br>N WIJERATHNE                               | Approved By<br>D ANDERSON | Date<br>20/04/16 | Map Size<br>A3 |







PLAN



VERTICAL PROFILE

CONCEPT DESIGN - OPERATION

LEGEND

- |                                |                                 |                                         |
|--------------------------------|---------------------------------|-----------------------------------------|
| MELBOURNE METRO TRACKS         | DRAINAGE SUMP                   | ALTERNATIVE DESIGN OPTION               |
| TRACKS TO BE REMOVED           | CUT AND COVER STATION FOOTPRINT | SERVICE FACILITY / TBM RETRIEVAL POINT  |
| TRACKS TO BE REALIGNED         | PLATFORM                        | TUNNEL - MINED                          |
| EXISTING SURFACE               | DECLINE STRUCTURE               | CITY LOOP                               |
| RETAINING WALL / VERTICAL WALL | TUNNEL - DRIVEN                 | CITYLINK CROWN ALLOTMENT                |
| DIVIDING WALL                  | TUNNEL - CUT & COVER            | EMERGENCY ACCESS STRUCTURE              |
| BATTERS                        | CROSS PASSAGE                   | CAVERN STATION ENTRANCE AND PLANT SHAFT |
| EXISTING TRACK LEVEL           | PRECAST CONCRETE RETAINING WALL | MINED STATION                           |

Note:  
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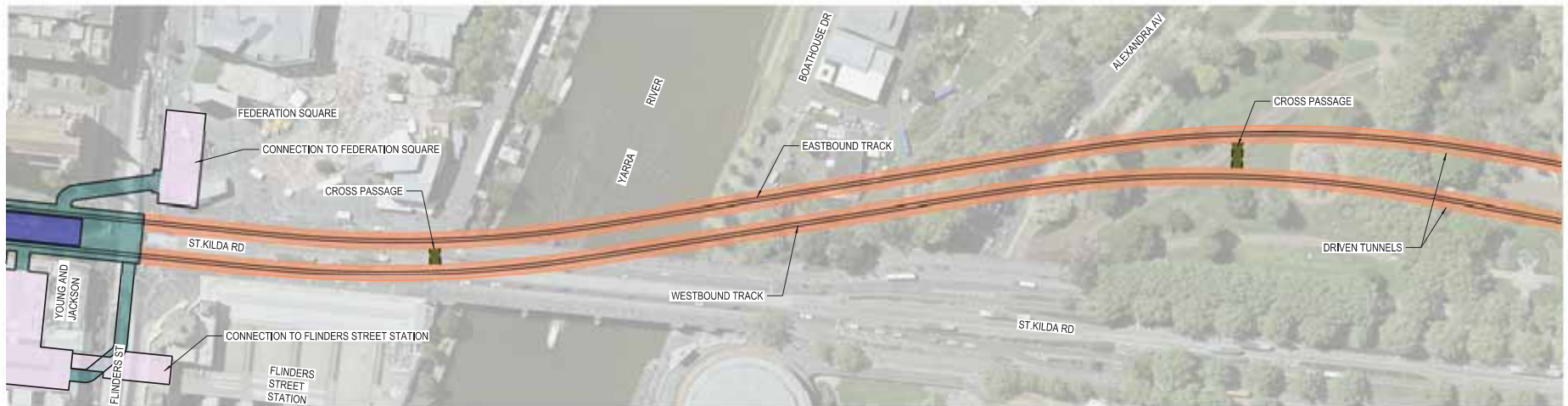


# Melbourne Metro Rail Project

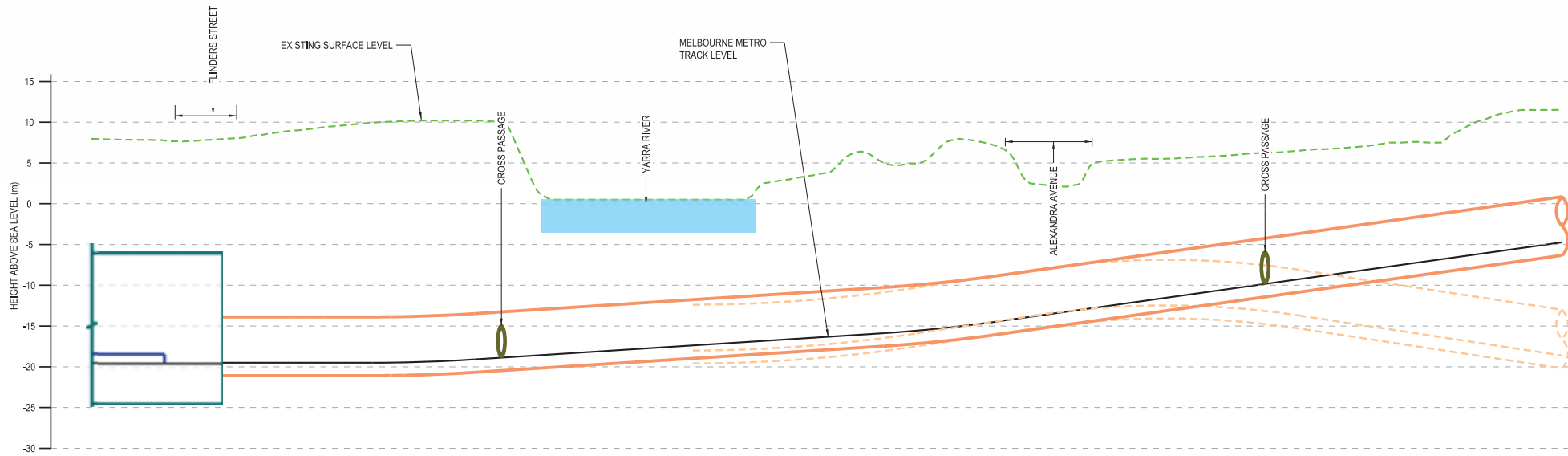
Title  
 CONCEPT DESIGN VERTICAL PROFILE SHEET 9 OF 15

|                                             |                           |
|---------------------------------------------|---------------------------|
| Drawing Number<br>MMR-AJM-PWAA-MP-NN-500301 | Revision<br>C1            |
| Drawn By<br>N WIJERATHNE                    | Approved By<br>D ANDERSON |
| Date<br>20/04/16                            | Map Size<br>A3            |





PLAN



VERTICAL PROFILE

CONCEPT DESIGN - OPERATION

| LEGEND |                                |  |                                 |  |                                         |
|--------|--------------------------------|--|---------------------------------|--|-----------------------------------------|
|        | MELBOURNE METRO TRACKS         |  | DRAINAGE SUMP                   |  | ALTERNATIVE DESIGN OPTION               |
|        | TRACKS TO BE REMOVED           |  | CUT AND COVER STATION FOOTPRINT |  | SERVICE FACILITY / TBM RETRIEVAL POINT  |
|        | TRACKS TO BE REALIGNED         |  | PLATFORM                        |  | TUNNEL - MINED                          |
|        | EXISTING SURFACE               |  | DECLINE STRUCTURE               |  | CITY LOOP                               |
|        | RETAINING WALL / VERTICAL WALL |  | TUNNEL - DRIVEN                 |  | CITYLINK CROWN ALLOTMENT                |
|        | DIVIDING WALL                  |  | TUNNEL - CUT & COVER            |  | EMERGENCY ACCESS STRUCTURE              |
|        | BATTERS                        |  | CROSS PASSAGE                   |  | CAVERN STATION ENTRANCE AND PLANT SHAFT |
|        | EXISTING TRACK LEVEL           |  | PRECAST CONCRETE RETAINING WALL |  | MINED STATION                           |

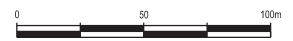
Note:  
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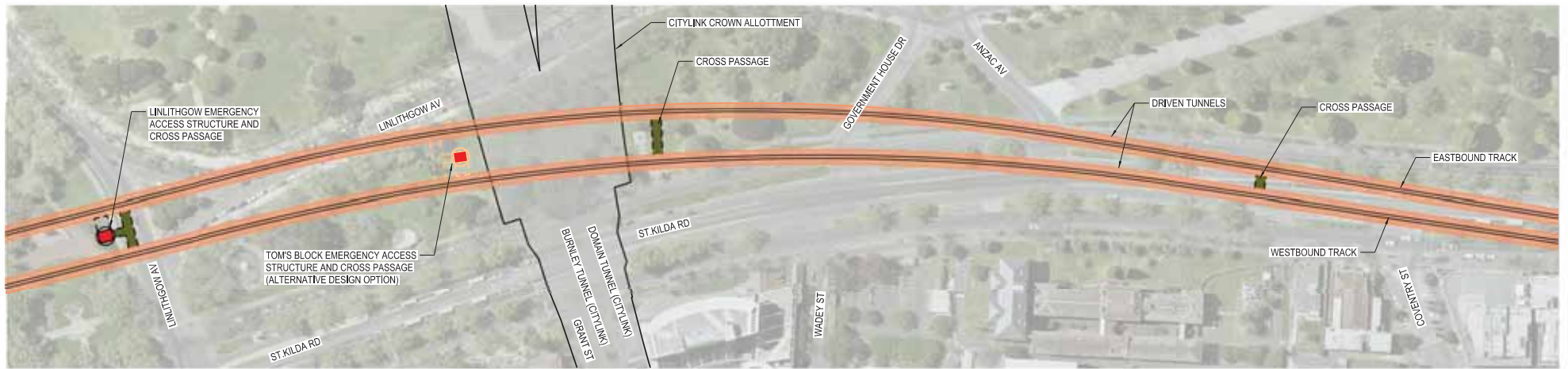
# Melbourne Metro Rail Project

Title  
 CONCEPT DESIGN VERTICAL PROFILE SHEET 10 OF 15

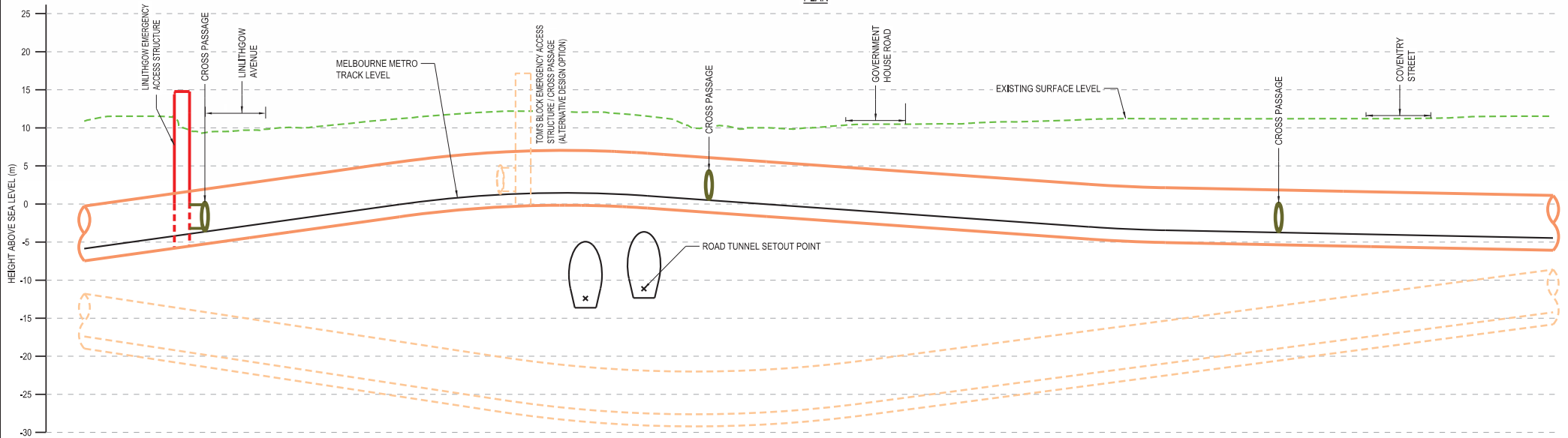
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| Drawn By<br>N WIJERATHNE                    | Approved By<br>D ANDERSON | Date<br>20/04/16 | Map Size<br>A3 |







PLAN



VERTICAL PROFILE

CONCEPT DESIGN - OPERATION

LEGEND

- |                                |                                 |                                         |
|--------------------------------|---------------------------------|-----------------------------------------|
| MELBOURNE METRO TRACKS         | DRAINAGE SUMP                   | ALTERNATIVE DESIGN OPTION               |
| TRACKS TO BE REMOVED           | CUT AND COVER STATION FOOTPRINT | SERVICE FACILITY / TBM RETRIEVAL POINT  |
| TRACKS TO BE REALIGNED         | PLATFORM                        | TUNNEL - MINED                          |
| EXISTING SURFACE               | DECLINE STRUCTURE               | CITY LOOP                               |
| RETAINING WALL / VERTICAL WALL | TUNNEL - DRIVEN                 | CITYLINK CROWN ALLOTMENT                |
| DIVIDING WALL                  | TUNNEL - CUT & COVER            | EMERGENCY ACCESS STRUCTURE              |
| BATTERS                        | CROSS PASSAGE                   | CAVERN STATION ENTRANCE AND PLANT SHAFT |
| EXISTING TRACK LEVEL           | PRECAST CONCRETE RETAINING WALL | MINED STATION                           |

Note:  
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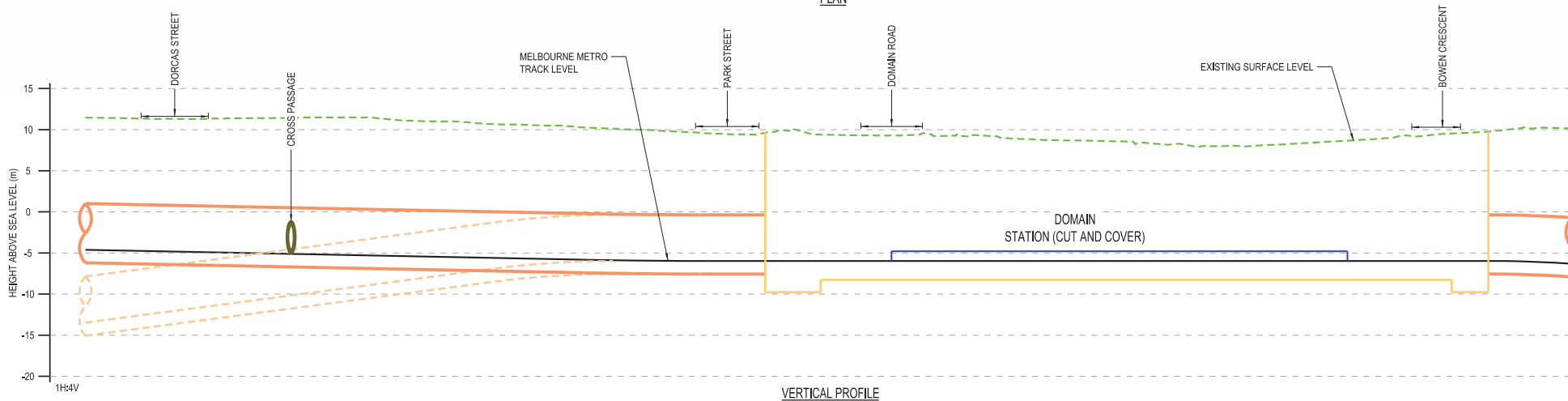
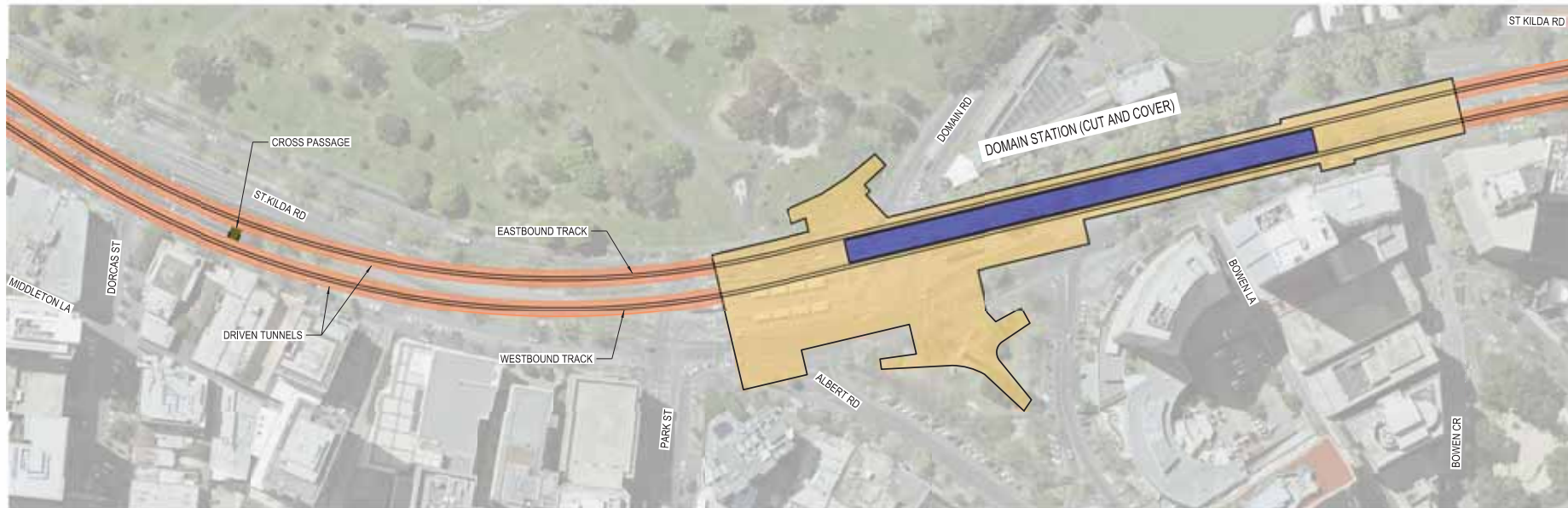


# Melbourne Metro Rail Project

Title  
 CONCEPT DESIGN VERTICAL PROFILE SHEET 11 OF 15

|                                             |                           |
|---------------------------------------------|---------------------------|
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| Drawn By<br>N WIJERATHNE                    | Approved By<br>D ANDERSON |
| Date<br>20/04/16                            | Map Size<br>A3            |





CONCEPT DESIGN - OPERATION

LEGEND

- |  |                                |  |                                 |  |                                         |
|--|--------------------------------|--|---------------------------------|--|-----------------------------------------|
|  | MELBOURNE METRO TRACKS         |  | DRAINAGE SUMP                   |  | ALTERNATIVE DESIGN OPTION               |
|  | TRACKS TO BE REMOVED           |  | CUT AND COVER STATION FOOTPRINT |  | SERVICE FACILITY / TBM RETRIEVAL POINT  |
|  | TRACKS TO BE REALIGNED         |  | PLATFORM                        |  | TUNNEL - MINED                          |
|  | EXISTING SURFACE               |  | DECLINE STRUCTURE               |  | CITY LOOP                               |
|  | RETAINING WALL / VERTICAL WALL |  | TUNNEL - DRIVEN                 |  | CITYLINK CROWN ALLOTMENT                |
|  | DIVIDING WALL                  |  | TUNNEL - CUT & COVER            |  | EMERGENCY ACCESS STRUCTURE              |
|  | BATTERS                        |  | CROSS PASSAGE                   |  | CAVERN STATION ENTRANCE AND PLANT SHAFT |
|  | EXISTING TRACK LEVEL           |  | PRECAST CONCRETE RETAINING WALL |  | MINED STATION                           |

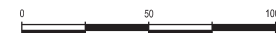
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# Melbourne Metro Rail Project

Title  
 CONCEPT DESIGN VERTICAL PROFILE SHEET 12 OF 15

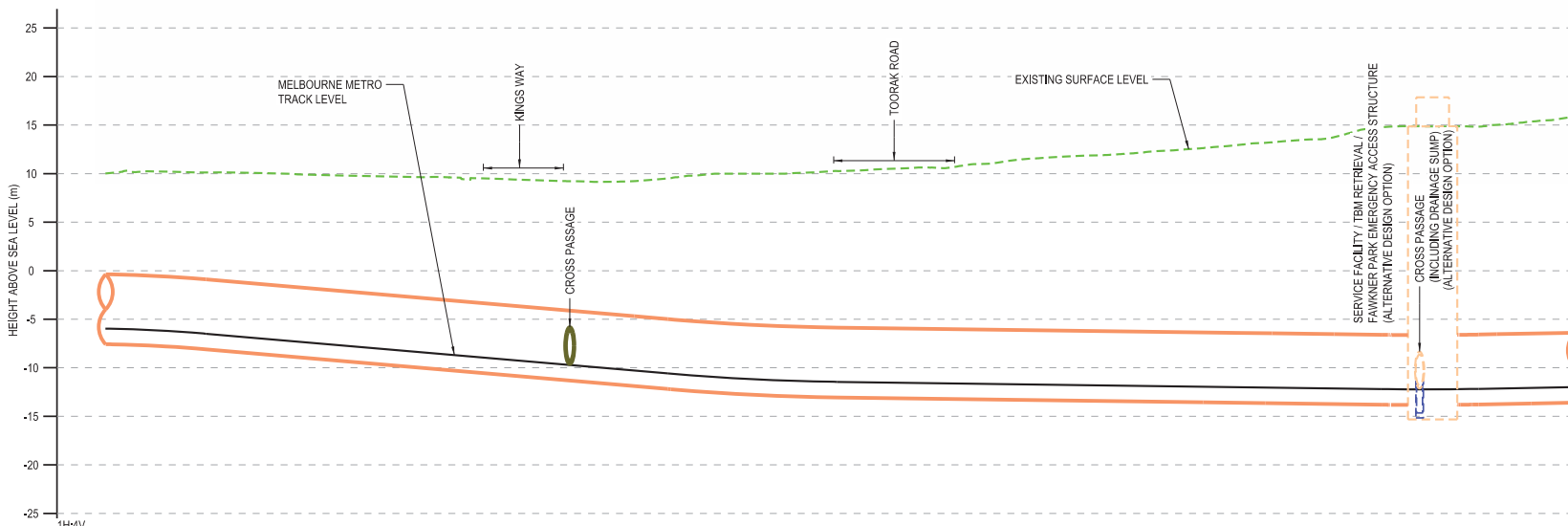
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| Drawn By<br>N WIJERATHNE                    | Approved By<br>D ANDERSON | Date<br>20/04/16 | Map Size<br>A3 |







PLAN



VERTICAL PROFILE

CONCEPT DESIGN - OPERATION

| LEGEND |                                |  |                                         |
|--------|--------------------------------|--|-----------------------------------------|
|        | MELBOURNE METRO TRACKS         |  | ALTERNATIVE DESIGN OPTION               |
|        | TRACKS TO BE REMOVED           |  | SERVICE FACILITY / TBM RETRIEVAL POINT  |
|        | TRACKS TO BE REALIGNED         |  | TUNNEL - MINED                          |
|        | EXISTING SURFACE               |  | CITY LOOP                               |
|        | RETAINING WALL / VERTICAL WALL |  | CITYLINK CROWN ALLOTMENT                |
|        | DIVIDING WALL                  |  | EMERGENCY ACCESS STRUCTURE              |
|        | BATTERS                        |  | CAVERN STATION ENTRANCE AND PLANT SHAFT |
|        | EXISTING TRACK LEVEL           |  | MINED STATION                           |
|        | DRAINAGE SUMP                  |  | CUT AND COVER STATION FOOTPRINT         |
|        | PLATFORM                       |  | DECLINE STRUCTURE                       |
|        | TUNNEL - DRIVEN                |  | TUNNEL - CUT & COVER                    |
|        | CROSS PASSAGE                  |  | PRECAST CONCRETE RETAINING WALL         |

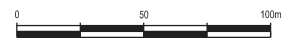
Note:  
 - Surface works are not shown.  
 - Proposed footprint of post-construction structures is indicative only and may be subject to change.



# Melbourne Metro Rail Project

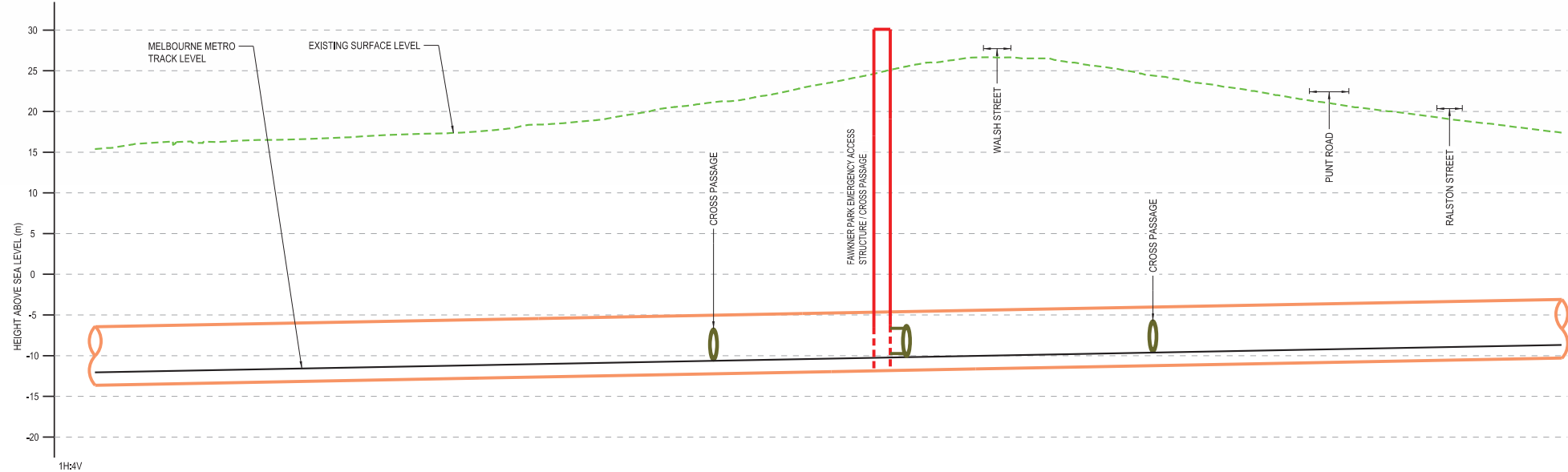
Title  
 CONCEPT DESIGN VERTICAL PROFILE SHEET 13 OF 15

|                                             |                           |
|---------------------------------------------|---------------------------|
| Drawing Number<br>MMR-AJM-PWAA-MP-NN-500301 | Revision<br>C1            |
| Drawn By<br>N WIJERATHNE                    | Approved By<br>D ANDERSON |
| Date<br>20/04/16                            | Map Size<br>A3            |





PLAN



VERTICAL PROFILE

CONCEPT DESIGN - OPERATION

| LEGEND |                                 |  |                                         |
|--------|---------------------------------|--|-----------------------------------------|
|        | MELBOURNE METRO TRACKS          |  | ALTERNATIVE DESIGN OPTION               |
|        | TRACKS TO BE REMOVED            |  | SERVICE FACILITY / TBM RETRIEVAL POINT  |
|        | TRACKS TO BE REALIGNED          |  | TUNNEL - MINED                          |
|        | EXISTING SURFACE                |  | CITY LOOP                               |
|        | RETAINING WALL / VERTICAL WALL  |  | CITYLINK CROWN ALLOTMENT                |
|        | DIVIDING WALL                   |  | EMERGENCY ACCESS STRUCTURE              |
|        | BATTERS                         |  | CAVERN STATION ENTRANCE AND PLANT SHAFT |
|        | EXISTING TRACK LEVEL            |  | MINED STATION                           |
|        | DRAINAGE SUMP                   |  | CUT AND COVER STATION FOOTPRINT         |
|        | PLATFORM                        |  | DECLINE STRUCTURE                       |
|        | DECLINE STRUCTURE               |  | TUNNEL - DRIVEN                         |
|        | TUNNEL - DRIVEN                 |  | TUNNEL - CUT & COVER                    |
|        | TUNNEL - CUT & COVER            |  | CROSS PASSAGE                           |
|        | CROSS PASSAGE                   |  | PRECAST CONCRETE RETAINING WALL         |
|        | PRECAST CONCRETE RETAINING WALL |  |                                         |

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# Melbourne Metro Rail Project

Title  
 CONCEPT DESIGN VERTICAL PROFILE SHEET 14 OF 15

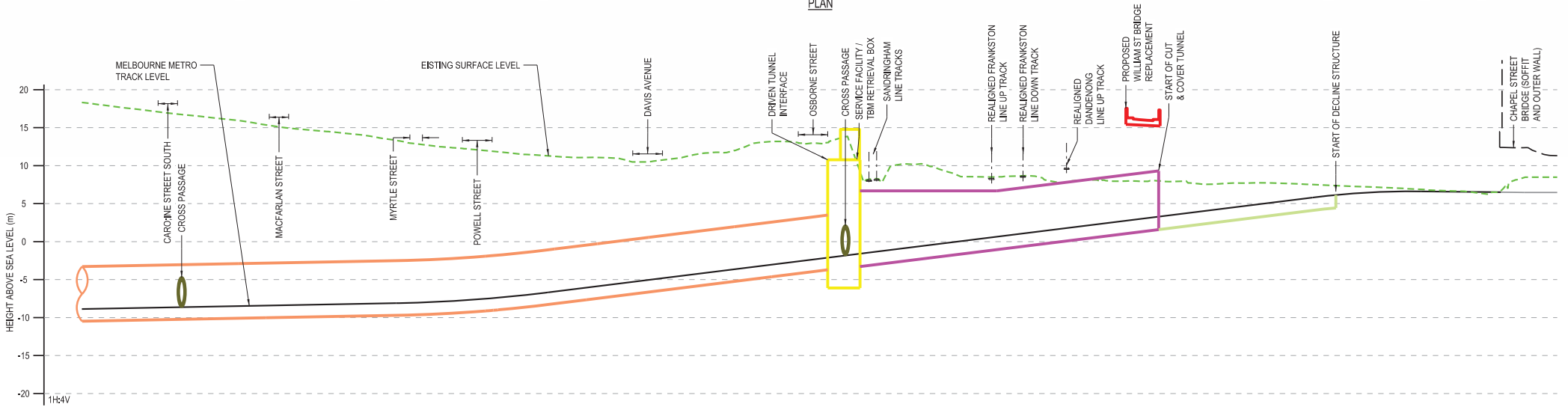
|                                             |                           |                  |                |
|---------------------------------------------|---------------------------|------------------|----------------|
| Drawing Number<br>MMR-AJM-PWAA-MP-NN-500301 |                           | Revision<br>C1   |                |
| Drawn By<br>N WIJERATHNE                    | Approved By<br>D ANDERSON | Date<br>20/04/16 | Map Size<br>A3 |







PLAN



VERTICAL PROFILE

CONCEPT DESIGN - OPERATION

| LEGEND |                                |  |                                 |  |                                         |
|--------|--------------------------------|--|---------------------------------|--|-----------------------------------------|
|        | MELBOURNE METRO TRACKS         |  | DRAINAGE SUMP                   |  | ALTERNATIVE DESIGN OPTION               |
|        | TRACKS TO BE REMOVED           |  | CUT AND COVER STATION FOOTPRINT |  | SERVICE FACILITY / TBM RETRIEVAL POINT  |
|        | TRACKS TO BE REALIGNED         |  | PLATFORM                        |  | TUNNEL - MINED                          |
|        | EXISTING SURFACE               |  | DECLINE STRUCTURE               |  | CITY LOOP                               |
|        | RETAINING WALL / VERTICAL WALL |  | TUNNEL - DRIVEN                 |  | CITYLINK CROWN ALLOTMENT                |
|        | DIVIDING WALL                  |  | TUNNEL - CUT & COVER            |  | EMERGENCY ACCESS STRUCTURE              |
|        | BATTERS                        |  | CROSS PASSAGE                   |  | CAVERN STATION ENTRANCE AND PLANT SHAFT |
|        | EXISTING TRACK LEVEL           |  | PRECAST CONCRETE RETAINING WALL |  | MINED STATION                           |

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Title  
 CONCEPT DESIGN VERTICAL PROFILE SHEET 15 OF 15

|                                             |                           |
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